



QUICK COUPLINGS



## INTRODUCTION

Q.Safe is the Manuli Hydraulics offering for quick coupling applications. Composed of an ever-expanding range of products, the Q.Safe brand has rapidly become an industry byword for quality and performance. The entire Q.Safe product range is manufactured with our E-Coat 500 treatment which provides an environmentally friendly surface coating (chrome free) far exceeding ISO 4520 requirements (salt spray resistance: 240 hours for white corrosion and 500 for red corrosion). Some Q.Safe products also have the option to upgrade to our new E-Coat 1000 plating which offers 1,000 hours to red corrosion (see page 96 for details).

Guaranteeing leak-free performance, the Q.Safe brand is suitable for a wide range of different applications and assures total interchangeability with other quick coupling products on the market. All Q.Safe products are manufactured and assembled in our world-class facility, where they are subjected to stringent quality controls including:

- 100% visual check
- 100% functional test
- 100% air sealing test

Manuli Hydraulics Q.Safe are suggested for the following application fields:

### AGRICULTURE AND FORESTRY (TRACTORS, TRAILERS, HARVESTER MACHINES)

- Quick couplings according to ISO 7241-A standard connectable in whatever pressure conditions:
- MQS-A and MQS-AF, MQS-N in case of no pressure in the hydraulic line.
- MQS-AP, MQS-AFP, MQS-AFM, MQS-AFB, MQS-ARM and MQS-ARB in case of pressure in one or both the hydraulic lines.
- Quick couplings for hydraulic braking systems: MQS-VB according to ISO 5676 standard, MQS-VS
- Flat Face Quick couplings according to ISO 16028 standards: MQS-F, MQS-FP, MQS-FS
- Screw-type couplings: MQS-SG, MQS-SGR
- Quick couplings for diagnosis according to ISO 15171-1 standard: MQS-D
- Quick couplings "direct hose integration": MQS-DHI
- Check valves: MQS-CV, MQS-CVC

### MINING (DRILLS)

- MQS-A, MQS-N
- MQS-F
- MQS-SG, MQS-SGR
- MQS-SC
- MQS-SH
- MQS-CV, MQS-CVC

### CONSTRUCTION EQUIPMENTS AND UTILITY VEHICLES (EXCAVATORS, SKID STEERS LOADERS, WHEEL-LOADERS, HYDRAULIC TOOLS AND DUMP TRAILERS)

- MQS-A, MQS-AF, MQS-N, MQS-B
- MQS-F, MQS-FP, MQS-FS
- MQS-SG, MQS-SGR
- MQS-D
- Screw type couplings for very high static pressure: MQS-SC
- Screw type couplings for extreme working conditions: MQS-SH
- Wing nut screw type couplings: MQS-ST
- MQS-DHI
- MQS-CV, MQS-CVC

### OIL & GAS

- MQS-SO
- MQS-BOP

### INDUSTRY

- MQS-F
- MQS-SH
- MQS-B
- MQS-D
- MQS-DHI
- MQS-CV, MQS-CVC

### QUICK COUPLING SELECTION

To ensure that you select the correct quick coupling for your needs, Manuli Hydraulics recommends that the following factors be considered:

**Pressure and Flow Rate** - The selected quick coupling must always be suitable for the pressure and flow rate in the system. Always check that the selected quick coupling's maximum working pressure is equal to or greater than the maximum pressure of the system (including pressure spikes).

**Connection Under Pressure** - Many quick couplings can only be connected / disconnected when the line pressure has been reduced to zero. If this is not possible you should select a quick coupling which is connectible under pressure. When disconnecting couplings the line pressure must be reduced to zero. Avoid using tools to connect / disconnect quick couplings.

**Fluid Compatibility** - Always check that the fluids used are compatible with the materials and seals used in the quick couplings.

**Temperature** - Always verify that the maximum working temperature of the system is within the operational limits of the quick coupling selected.

**Environmental Conditions** - Be aware that certain environmental conditions can cause damage or excessive corrosion to the quick couplings. Some specific examples are environments where there are harsh chemicals, UV radiation or salt waters.

### GENERAL PRECAUTIONS

- Before connecting the quick coupling carefully clean the insert in order to prevent excessive wear on seals.
- Use suitable protective components such as plugs and caps when quick couplings are not in use to prevent unnecessary wear or damage.
- Shock impacts, such as falling on the ground, may damage your quick coupling. Take precautions to avoid this kind of impact.
- Replace damaged / worn O-rings and back-up rings as soon as possible using the recommended spare part kits.
- Inspect each quick coupling after every individual application in order to detect any visible cracks, leakage, damage or corrosion.



### **MQS-DHI “DIRECT HOSE INTEGRATION”**

An innovative system to enable direct assembly of the quick-release coupling to the flexible hose, and therefore avoiding intermediate connection elements.

Some of the benefits of this solution are:

- Reduced risk of oil leakage
- Elimination of unscrewing problems in the field
- Reduction in the number of assembly elements leading to reduced assembly cost, minimised risk of assembly operation mistakes and greater safety in severe working conditions, as well as easier maintenance and replacement operations

Design solutions are available for most common series ISO A, ISO B, Push-Pull & Flat-Face

**DHI quick release coupling maintenance is possible without the need to replace the flexible hose.**

### **Q.SAFE FLAT FACE MULTICONNECTORS**

The Q.Safe quick coupling range is widely renowned for representing the Gold Standard in quick coupling quality and performance. The introduction of the Q.Safe Flat Face Multiconnector range combines this superior performance with the added efficiency and safety related benefits of a multiconnector block system.

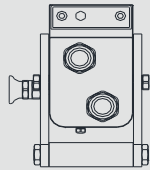
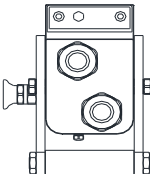
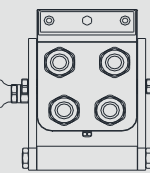
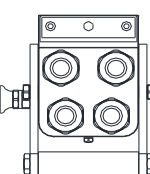
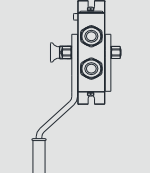
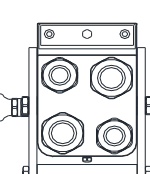
- Reduces connection time when multiple connectors are used
- No risk of incorrect connection
- No misalignment between mobile and static blocks
- Compact design for minimal added weight
- Flat face couplings allow high pressures (350 bar) and high flow rates
- Allows hoses to be arranged closer together whilst still allowing easy access
- Industry leading performance with reduced pressure drop
- Almost zero (between 0.007cc and 0.009cc) oil spillage on connection / disconnection
- Connection under residual pressure
- Easy to clean

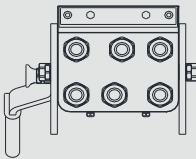
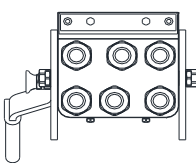
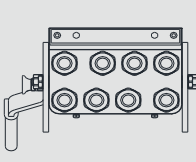
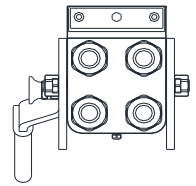
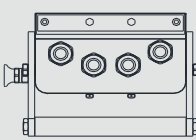
## Q.SAFE QUICK COUPLINGS

| QUICK COUPLINGS SERIES | DESCRIPTION                                                          | FEMALE | MALE   | SHUT-OFF SYSTEM | SPECIFICATIONS                                 | CONNECTION      | SIZE |      |      |      |      |      |    |        |        |    | PAGE No. |
|------------------------|----------------------------------------------------------------------|--------|--------|-----------------|------------------------------------------------|-----------------|------|------|------|------|------|------|----|--------|--------|----|----------|
|                        |                                                                      |        |        |                 |                                                |                 | 1/8" | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |          |
| MQS-A                  | ISO A                                                                | Q008   | Q002   | POPPET VALVE    | ISO 7241 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 341      |
|                        |                                                                      |        | Q004   | SHIELDED POPPET |                                                |                 |      |      |      |      |      |      |    |        |        |    |          |
|                        |                                                                      |        | Q009   | Q003            | BALL VALVE                                     |                 |      |      |      |      |      |      |    |        |        |    |          |
| MQS-AP                 | ISO A CONNECTABLE UNDER PRESSURE                                     | Q010   | Q006   | POPPET VALVE    | ISO 7241 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 352      |
| MQS-AM                 | ISO A CONNECTABLE WITH MALE UNDER PRESSURE                           | Q011   | -      | POPPET VALVE    | ISO 7241 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 354      |
| MQS-AB                 | ISO A CONNECTABLE WITH BOTH PARTS UNDER PRESSURE                     | Q012   | -      | POPPET VALVE    | ISO 7241 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 356      |
| MQS-B                  | ISO B                                                                | Q024   | Q021   | POPPET VALVE    | ISO 7241 SERIES B                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 358      |
| MQS-BOP                | ISO B FOR DRILLING BOP UNIT                                          | Q026 F | Q021 F | POPPET VALVE    | ISO 7241 SERIES B + FLAME TEST RES. TO API 16D | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 361      |
| MQS-N                  | STANDARD                                                             | Q032   | Q029   | POPPET VALVE    | -                                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 363      |
|                        |                                                                      | Q033   | Q030   | BALL VALVE      |                                                |                 |      |      |      |      |      |      |    |        |        |    |          |
| MQS-NL                 | FREE-FLOW                                                            | Q038   | Q037   | WITHOUT         | -                                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 369      |
| MQS-NF                 | STANDARD PUSH-PULL                                                   | Q036   | -      | POPPET VALVE    | -                                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 371      |
| MQS-AF                 | PUSH-PULL                                                            | Q013   | -      | POPPET VALVE    | ISO 7421 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 373      |
| MQS-AFP                | PUSH-PULL CONNECTABLE UNDER PRESSURE                                 | Q015   | -      | POPPET VALVE    | ISO 7421 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 380      |
| MQS-AFM                | PUSH-PULL, CONNECTABLE WITH MALE UNDER PRESSURE, FLEXIBLE MOUNTING   | Q016   | -      | POPPET VALVE    | ISO 7421 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 382      |
| MQS-AFB                | PUSH-PULL CONNECTABLE WITH MALE UNDER PRESSURE, FLEXIBLE MOUNTING    | Q017   | -      | POPPET VALVE    | ISO 7421 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 384      |
| MQS-ARM                | PUSH-PULL, CONNECTABLE WITH MALE UNDER PRESSURE, RIGID MOUNTING      | Q018   | -      | POPPET VALVE    | ISO 7421 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 386      |
| MQS-ARB                | PUSH-PULL CONNECTABLE WITH BOTH PARTS UNDER PRESSURE, RIGID MOUNTING | Q019   | -      | POPPET VALVE    | ISO 7421 SERIES A                              | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 390      |
| MQS-VB                 | BRAKING CIRCUIT VALVE                                                | Q048   | Q047   | FLAT VALVE      | ISO 5676                                       | LOCKING BALLS   |      |      |      |      |      |      |    |        |        |    | 395      |
| MQS-VS                 | AGRICULTURAL VALVE                                                   | Q050   | Q049   | FLAT VALVE      | -                                              | SCREW-ON SLEEVE |      |      |      |      |      |      |    |        |        |    | 401      |

339[illegible]

## Q.SAFE MULTICONNECTORS

| MULTI-COUPLING SERIES | CONFIGURATION                                                                       | NO. OF LINES | SIZE |      |      | PAGE No. |
|-----------------------|-------------------------------------------------------------------------------------|--------------|------|------|------|----------|
|                       |                                                                                     |              | DN   | inch | Dash |          |
| Q401                  |    | 2            | 10   | 3/8" | -06  | 472      |
| Q402                  |    | 2            | 12.5 | 1/2" | -08  | 473      |
| Q403                  |    | 4            | 10   | 3/8" | -06  | 474      |
| Q404                  |  | 4            | 12.5 | 1/2" | -08  | 475      |
| Q405                  |  | 2            | 10   | 3/8" | -06  | 476      |
| Q406                  |  | 2            | 12.5 | 1/2" | -08  | 477      |
|                       |                                                                                     | 2            | 19   | 3/4" | -12  |          |

| MULTI-COUPLING SERIES | CONFIGURATION                                                                        | NO. OF LINES | SIZE |      |      | PAGE No. |
|-----------------------|--------------------------------------------------------------------------------------|--------------|------|------|------|----------|
|                       |                                                                                      |              | DN   | inch | Dash |          |
| Q407                  |    | 6            | 10   | 3/8" | -06  | 478      |
| Q408                  |    | 6            | 12.5 | 1/2" | -08  | 479      |
| Q409                  |    | 8            | 12.5 | 1/2" | -08  | 480      |
| Q410                  |  | 4            | 12.5 | 1/2" | -08  | 481      |
| Q411                  |  | 4            | 10   | 3/8" | -06  | 482      |

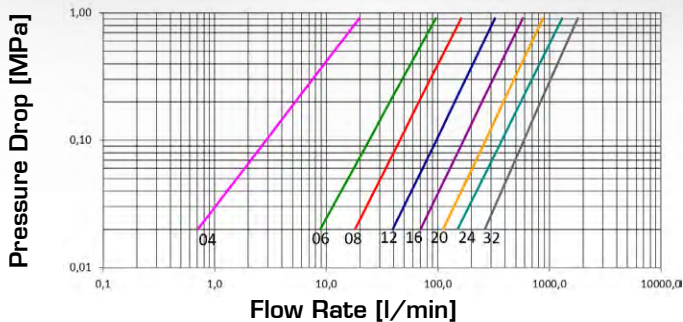
## Q.SAFE ACCESSORIES

| ACCESSORY TYPE | SIZE |      |      |      |      |      |    |        |        |    | PAGE No. |
|----------------|------|------|------|------|------|------|----|--------|--------|----|----------|
|                | 1/8" | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |          |
| PARKING        |      |      |      |      |      |      |    |        |        |    | 485      |
| PLUGS & CAPS   |      |      |      |      |      |      |    |        |        |    | 487      |
| SPARE PARTS    |      |      |      |      |      |      |    |        |        |    | 496      |

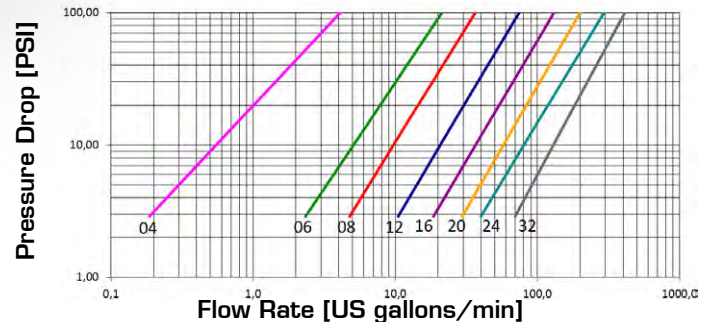


# ISO A POPPET VALVES

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |      |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>[Dynamic]                                                       |      | RATED FLOW<br>at 0.2 MPa<br>of pressure drop                                        |        | CONNECTION EFFORT                                                                   |      | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb.  | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |      |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 6.3                                                                                 | ¼    | 04   | 35                                                                                  | 5075 | 5                                                                                   | 1.3    | 60                                                                                  | 13.5 | 0.7                                                                                 | 0.043      | 200                                                                                   | 29000 | 150    | 21750 | 150   | 21750 | Not allowed                                                                           |  |
| 10                                                                                  | ⅜    | 06   | 35                                                                                  | 5075 | 37                                                                                  | 9.2    | 80                                                                                  | 18.0 | 1.4                                                                                 | 0.085      | 140                                                                                   | 20300 | 150    | 21750 | 150   | 21750 | Not allowed                                                                           |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 68                                                                                  | 19.8   | 80                                                                                  | 18.0 | 2                                                                                   | 0.122      | 125                                                                                   | 18125 | 150    | 21750 | 150   | 21750 | Not allowed                                                                           |  |
| 20                                                                                  | ¾    | 12   | 25                                                                                  | 3625 | 142                                                                                 | 38.8   | 90                                                                                  | 20.2 | 7                                                                                   | 0.427      | 100                                                                                   | 14500 | 120    | 17400 | 100   | 14500 | Not allowed                                                                           |  |
| 25                                                                                  | 1    | 16   | 25                                                                                  | 3625 | 250                                                                                 | 66.1   | 90                                                                                  | 20.2 | 11                                                                                  | 0.671      | 100                                                                                   | 14500 | 100    | 14500 | 100   | 14500 | Not allowed                                                                           |  |
| 31.5                                                                                | 1¼   | 20   | 25                                                                                  | 3625 | 390                                                                                 | 103.0  | 90                                                                                  | 20.2 | 15                                                                                  | 0.915      | 100                                                                                   | 14500 | 100    | 14500 | 105   | 15225 | Not allowed                                                                           |  |
| 40                                                                                  | 1½   | 24   | 22                                                                                  | 3190 | 553                                                                                 | 146.1  | 100                                                                                 | 22.5 | 21                                                                                  | 1.281      | 90                                                                                    | 13050 | 100    | 14500 | 100   | 14500 | Not allowed                                                                           |  |
| 51                                                                                  | 2    | 32   | 15                                                                                  | 2175 | 838                                                                                 | 221.4  | 225                                                                                 | 50.6 | 45                                                                                  | 2.746      | 60                                                                                    | 8700  | 60     | 8700  | 90    | 13050 | Not allowed                                                                           |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Reference series on the agriculture and industrial market
- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by the latching ball system
- Shut-off by poppet valve
- High resistant materials and hardened male and sleeve to withstand the brinelling effect
- Interchangeability according to ISO 7241 series A

## MATERIAL

Female and male couplings in steel, with some hardened areas, in correspondence to the most stressed points. Springs in C98 steel, seals in NBR (other materials on request) and back-up ring in PTFE. PU seal on ½" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

4:1 for dynamic pressures

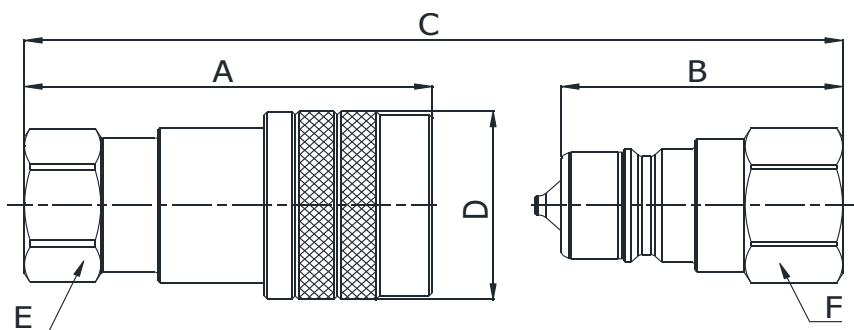
## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

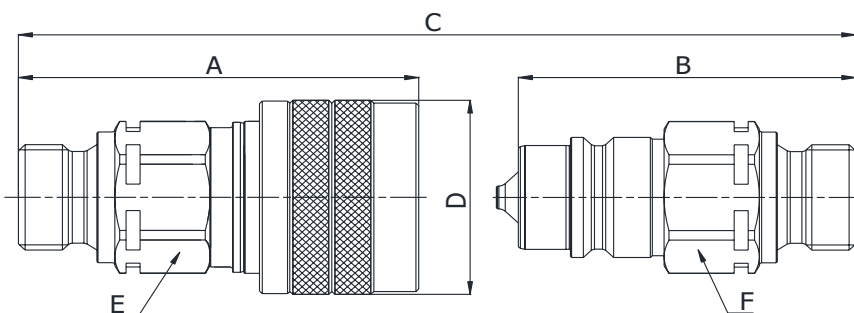




**Q00811021A**  
**Q00211021A**

BSPT TERMINATION ENDS  
TO ISO 7-1  
TAPERED

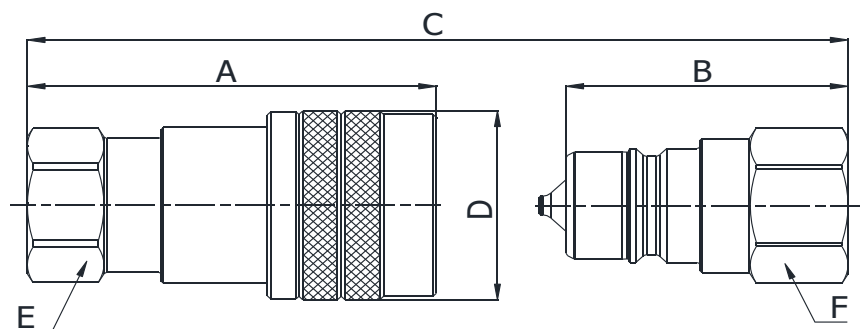
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |       |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-------|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D     | E  | F  |
| 6.3  | 1/4" | -04  | Q00811021A-04-04 | Q00211021A-04-04 | 1/4"   | 48.8          | 34.5 | A+B-14,3 | ø24   | 17 | 17 |
| 10   | 3/8" | -06  | Q00811021A-06-06 | Q00211021A-06-06 | 3/8"   | 57.8          | 40   | A+B-17,8 | ø30   | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811021A-08-08 | Q00211021A-08-08 | 1/2"   | 67.1          | 45   | A+B-22,1 | ø38   | 27 | 27 |
| 20   | 3/4" | -12  | Q00811021A-12-12 | Q00211021A-12-12 | 3/4"   | 83.5          | 56.5 | A+B-27   | ø45   | 34 | 34 |
| 25   | 1"   | -16  | Q00811021A-16-16 | Q00211021A-16-16 | 1"     | 97.9          | 64.5 | A+B-32,7 | ø52,3 | 41 | 41 |



**Q00811050A**  
**Q00211050A**

BSP TERMINATION ENDS  
TO ISO 8434-6

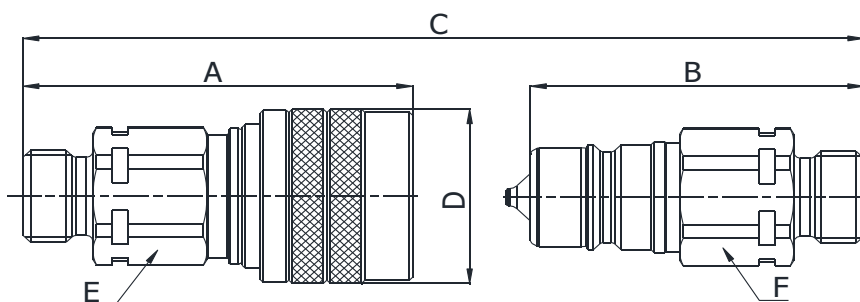
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q00811050A-06-06 | Q00211050A-06-06 | 3/8"   | 64.7          | 56.2 | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811050A-08-06 | Q00211050A-08-06 | 3/8"   | 68.9          | 57.7 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811050A-08-08 | Q00211050A-08-08 | 1/2"   | 71.4          | 60.2 | A+B-21,8 | ø38 | 27 | 27 |



**Q00811041A**  
**Q00211041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

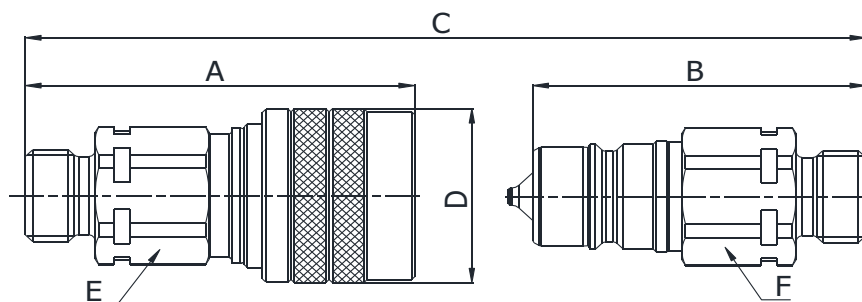
| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |      |    |    |
|------|--------|------|------------------|------------------|--------|---------------|------|----------|------|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D    | E  | F  |
| 6.3  | 1/4"   | -04  | Q00811041A-04-04 | Q00211041A-04-04 | 1/4"   | 48.8          | 34.5 | A+B-14,2 | ø24  | 17 | 17 |
| 10   | 3/8"   | -06  | Q00811041A-06-04 | Q00211041A-06-04 | 1/4"   | 63            | 54.5 | A+B-17,5 | ø30  | 22 | 22 |
| 10   | 3/8"   | -06  | Q00811041A-06-06 | Q00211041A-06-06 | 3/8"   | 57.8          | 40   | A+B-17,5 | ø30  | 22 | 22 |
| 12.5 | 1/2"   | -08  | Q00811041A-08-06 | Q00211041A-08-06 | 3/8"   | 66.2          | 55   | A+B-21,8 | ø38  | 27 | 27 |
| 12.5 | 1/2"   | -08  | Q00811041A-08-08 | Q00211041A-08-08 | 1/2"   | 67            | 45   | A+B-21,8 | ø38  | 27 | 27 |
| 12.5 | 1/2"   | -08  | Q00811041A-08-12 | Q00211041A-08-12 | 3/4"   | 69            | 53   | A+B-21,8 | ø38  | 34 | 34 |
| 20   | 3/4"   | -12  | Q00811041A-12-08 | Q00211041A-12-08 | 1/2"   | 85.7          | 66.3 | A+B-26,7 | ø45  | 34 | 34 |
| 20   | 3/4"   | -12  | Q00811041A-12-12 | Q00211041A-12-12 | 3/4"   | 83.5          | 56.5 | A+B-26,7 | ø45  | 34 | 34 |
| 25   | 1"     | -16  | Q00811041A-16-12 | Q00211041A-16-12 | 3/4"   | 97.9          | 64.5 | A+B-32,7 | ø52  | 41 | 41 |
| 25   | 1"     | -16  | Q00811041A-16-16 | Q00211041A-16-16 | 1"     | 97.9          | 64.5 | A+B-32,7 | ø52  | 41 | 41 |
| 31.5 | 1.1/4" | -20  | Q00811041A-20-20 | Q00211041A-20-20 | 1.1/4" | 118           | 75   | A+B-43   | ø69  | 50 | 50 |
| 40   | 1.1/2" | -24  | Q00811041A-24-24 | Q00211041A-24-24 | 1.1/2" | 133           | 84   | A+B-49   | ø83  | 60 | 60 |
| 51   | 2"     | -32  | Q00811041A-32-32 | Q00211041A-32-32 | 2"     | 164           | 104  | A+B-60,2 | ø100 | 75 | 75 |



**Q00811110A**  
**Q00211110A**

METRIC TERMINATION ENDS  
TO ISO 8434-1  
L SERIES

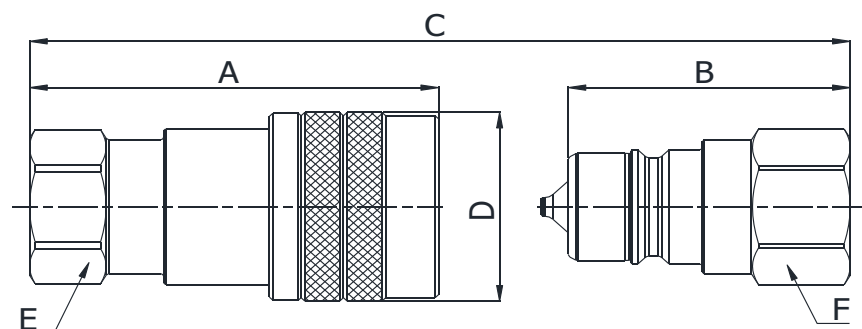
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q00811110A-04-14 | Q00211110A-04-14 | M14x1,5 | 52.1          | 42   | A+B-14,2 | ø24 | 17 | 17 |
| 10   | 3/8" | -06  | Q00811110A-06-12 | Q00211110A-06-12 | M12x1,5 | 61            | 52.5 | A+B-17,5 | ø30 | 22 | 22 |
| 10   | 3/8" | -06  | Q00811110A-06-14 | Q00211110A-06-14 | M14x1,5 | 61            | 52.5 | A+B-17,5 | ø30 | 22 | 22 |
| 10   | 3/8" | -06  | Q00811110A-06-16 | Q00211110A-06-16 | M16x1,5 | 61            | 52.5 | A+B-17,5 | ø30 | 22 | 22 |
| 10   | 3/8" | -06  | Q00811110A-06-18 | Q00211110A-06-18 | M18x1,5 | 61            | 52.5 | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811110A-08-14 | Q00211110A-08-14 | M14x1,5 | 65.2          | 54   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811110A-08-16 | Q00211110A-08-16 | M16x1,5 | 66.2          | 55   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811110A-08-18 | Q00211110A-08-18 | M18x1,5 | 65.2          | 54   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811110A-08-22 | Q00211110A-08-22 | M22x1,5 | 66.2          | 55   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811110A-08-26 | Q00211110A-08-26 | M26x1,5 | 66.2          | 55   | A+B-21,8 | ø38 | 27 | 27 |
| 20   | 3/4" | -12  | Q00811110A-12-18 | Q00211110A-12-18 | M18x1,5 | 85.4          | 66.3 | A+B-26,7 | ø45 | 34 | 34 |
| 20   | 3/4" | -12  | Q00811110A-12-22 | Q00211110A-12-22 | M22x1,5 | 85.7          | 66.3 | A+B-26,7 | ø45 | 34 | 34 |
| 20   | 3/4" | -12  | Q00811110A-12-26 | Q00211110A-12-26 | M26x1,5 | 85.7          | 66.3 | A+B-26,7 | ø45 | 34 | 34 |
| 20   | 3/4" | -12  | Q00811110A-12-30 | Q00211110A-12-30 | M30x2   | 87.7          | 68.3 | A+B-26,7 | ø45 | 34 | 34 |
| 25   | 1"   | -16  | Q00811110A-16-26 | Q00211110A-16-26 | M26x1,5 | 94.5          | 79.5 | A+B-32,7 | ø52 | 41 | 41 |
| 25   | 1"   | -16  | Q00811110A-16-30 | Q00211110A-16-30 | M30x2   | 96.5          | 81.5 | A+B-32,7 | ø52 | 41 | 41 |
| 25   | 1"   | -16  | Q00811110A-16-36 | Q00211110A-16-36 | M36x2   | 97            | 81.5 | A+B-32,7 | ø52 | 41 | 41 |



**Q00811120A**  
**Q00211120A**

METRIC TERMINATION ENDS  
TO ISO 8434-1  
S SERIES

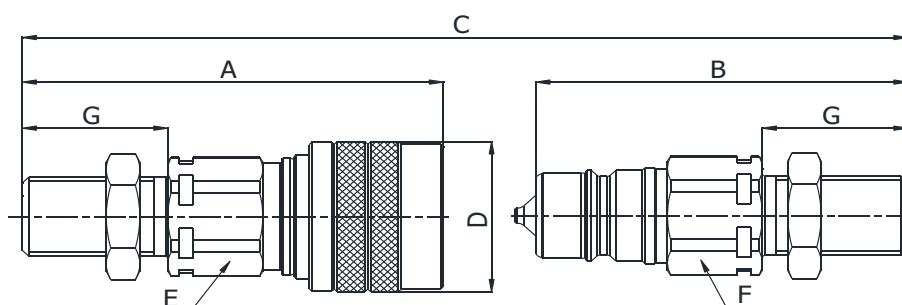
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q00811120A-06-16 | Q00211120A-06-16 | M16x1,5 | 62            | 53.5 | A+B-17,5 | ø30 | 22 | 22 |
| 10   | 3/8" | -06  | Q00811120A-06-18 | Q00211120A-06-18 | M18x1,5 | 62            | 53.5 | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811120A-08-18 | Q00211120A-08-18 | M18x1,5 | 66.2          | 55   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811120A-08-20 | Q00211120A-08-20 | M20x1,5 | 66.2          | 55   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811120A-08-24 | Q00211120A-08-24 | M24x1,5 | 68.2          | 57   | A+B-21,8 | ø38 | 27 | 27 |
| 25   | 1"   | -16  | Q00811120A-16-30 | Q00211120A-16-30 | M30x2   | 98.5          | 83.5 | A+B-32,7 | ø52 | 41 | 41 |
| 25   | 1"   | -16  | Q00811120A-16-36 | Q00211120A-16-36 | M36x2   | 100.5         | 85.5 | A+B-32,7 | ø52 | 41 | 41 |
| 25   | 1"   | -16  | Q00811120A-16-42 | Q00211120A-16-42 | M40x2   | 102.5         | 87.5 | A+B-32,7 | ø52 | 46 | 46 |



**Q00811191A**  
**Q00211191A**

METRIC TERMINATION ENDS  
TO ISO 6149-1

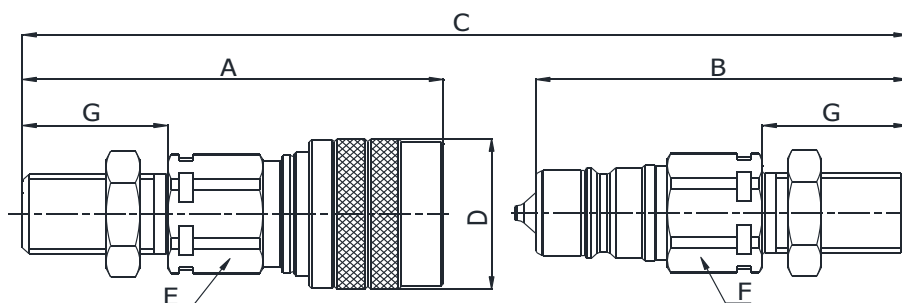
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q00811191A-08-16 | Q00211191A-08-16 | M16x1,5 | 66.7          | 55.5 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811191A-08-18 | Q00211191A-08-18 | M18x1,5 | 68.2          | 57   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811191A-08-22 | Q00211191A-08-22 | M22x1,5 | 67            | 48   | A+B-21,8 | ø38 | 27 | 27 |



## Q00811770B Q00211770B

METRIC TERMINATION ENDS  
TO ISO 8434-1  
BULKHEAD L SERIES

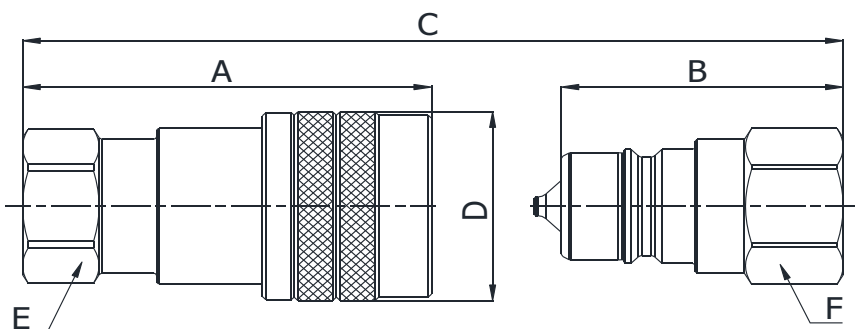
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  | G  |
| 10   | 3/8" | -06  | Q00811770B-06-12 | Q00211770B-06-12 | M12x1,5 | 76            | 67.5 | A+B-17,5 | ø30 | 22 | 22 | 25 |
| 10   | 3/8" | -06  | Q00811770B-06-14 | Q00211770B-06-14 | M14x1,5 | 75            | 66.5 | A+B-17,5 | ø30 | 22 | 22 | 25 |
| 10   | 3/8" | -06  | Q00811770B-06-16 | Q00211770B-06-16 | M16x1,5 | 75            | 66.5 | A+B-17,5 | ø30 | 22 | 22 | 26 |
| 10   | 3/8" | -06  | Q00811770B-06-18 | Q00211770B-06-18 | M18x1,5 | 75            | 66.5 | A+B-17,5 | ø30 | 22 | 22 | 26 |
| 12.5 | 1/2" | -08  | Q00811770B-08-14 | Q00211770B-08-14 | M14x1,5 | 80.2          | 69   | A+B-21,8 | ø38 | 27 | 27 | 25 |
| 12.5 | 1/2" | -08  | Q00811770B-08-16 | Q00211770B-08-16 | M16x1,5 | 80.2          | 69   | A+B-21,8 | ø38 | 27 | 27 | 26 |
| 12.5 | 1/2" | -08  | Q00811770B-08-18 | Q00211770B-08-18 | M18x1,5 | 80.2          | 69   | A+B-21,8 | ø38 | 27 | 27 | 26 |
| 12.5 | 1/2" | -08  | Q00811770B-08-22 | Q00211770B-08-22 | M22x1,5 | 81.2          | 70   | A+B-21,8 | ø38 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811770B-08-26 | Q00211770B-08-26 | M26x1,5 | 82.2          | 71   | A+B-21,8 | ø38 | 30 | 30 | 28 |
| 20   | 3/4" | -12  | Q00811770B-12-22 | Q00211770B-12-22 | M22x1,5 | 100.7         | 81.3 | A+B-26,7 | ø45 | 34 | 34 | 27 |
| 20   | 3/4" | -12  | Q00811770B-12-30 | Q00211770B-12-30 | M30x2   | 105.7         | 86.3 | A+B-26,7 | ø45 | 34 | 34 | 32 |
| 25   | 1"   | -16  | Q00811770B-16-26 | Q00211770B-16-26 | M26x1,5 | 110.5         | 92.3 | A+B-32,7 | ø52 | 41 | 41 | 28 |
| 25   | 1"   | -16  | Q00811770B-16-30 | Q00211770B-16-30 | M30x2   | 114.5         | 96.3 | A+B-32,7 | ø52 | 41 | 41 | 32 |
| 25   | 1"   | -16  | Q00811770B-16-36 | Q00211770B-16-36 | M36x2   | 114.5         | 96.3 | A+B-32,7 | ø52 | 41 | 41 | 32 |



## Q00811870B Q00211870B

METRIC TERMINATION ENDS  
TO ISO 8434-1  
BULKHEAD S SERIES

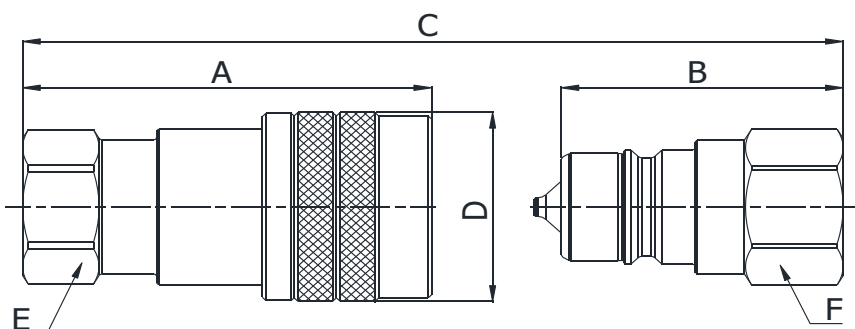
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |       |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|-------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B     | C        | D   | E  | F  | G  |
| 10   | 3/8" | -06  | Q00811870B-06-16 | Q00211870B-06-16 | M16x1,5 | 76            | 67.5  | A+B-17,5 | ø30 | 22 | 22 | 27 |
| 10   | 3/8" | -06  | Q00811870B-06-18 | Q00211870B-06-18 | M18x1,5 | 76            | 67.5  | A+B-17,5 | ø30 | 22 | 22 | 27 |
| 12.5 | 1/2" | -08  | Q00811870B-08-18 | Q00211870B-08-18 | M18x1,5 | 81.2          | 70    | A+B-21,8 | ø38 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811870B-08-20 | Q00211870B-08-20 | M20x1,5 | 81.2          | 70    | A+B-21,8 | ø38 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811870B-08-24 | Q00211870B-08-24 | M24x1,5 | 83.2          | 72    | A+B-21,8 | ø38 | 27 | 27 | 29 |
| 25   | 1"   | -16  | Q00811870B-16-30 | Q00211870B-16-30 | M30x2   | 116.5         | 101.5 | A+B-32,7 | ø52 | 41 | 41 | 34 |
| 25   | 1"   | -16  | Q00811870B-16-36 | Q00211870B-16-36 | M36x2   | 118.5         | 103.5 | A+B-32,7 | ø52 | 41 | 41 | 36 |
| 25   | 1"   | -16  | Q00811870B-16-42 | Q00211870B-16-42 | M40x2   | 120.5         | 105.5 | A+B-32,7 | ø52 | 41 | 41 | 40 |



**Q00811141A**  
**Q00211141A**

METRIC TERMINATION ENDS  
TO ISO 3852-1 X TYPE

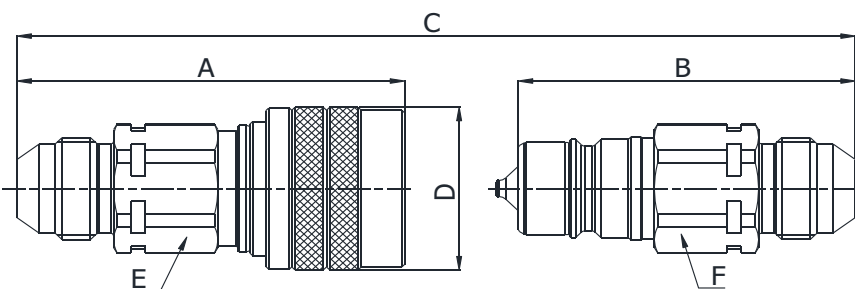
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |    |          |     |    |    |
|------|------|------|------------------|------------------|---------|---------------|----|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B  | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q00811141A-06-16 | Q00211141A-06-16 | M16x1,5 | 64.5          | 56 | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811141A-08-18 | Q00211141A-08-18 | M18x1,5 | 66.2          | 55 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811141A-08-20 | Q00211141A-08-20 | M20x1,5 | 67            | 45 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811141A-08-22 | Q00211141A-08-22 | M22x1,5 | 67            | 48 | A+B-21,8 | ø38 | 27 | 27 |



**Q00811341A**  
**Q00211341A**

NPTF TERMINATION ENDS  
TO ANSI B 1.20.3

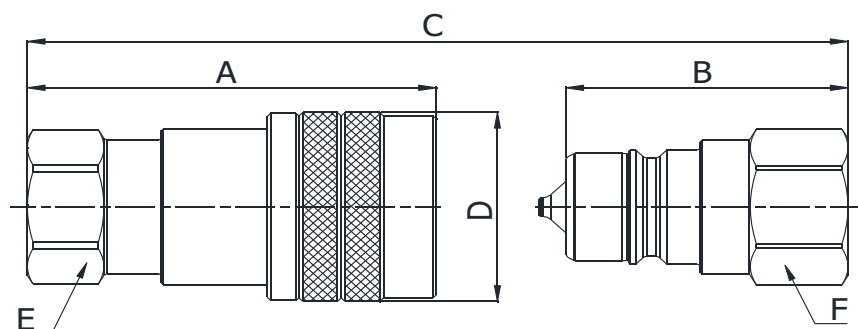
| SIZE |        |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |      |          |     |    |    |
|------|--------|------|------------------|------------------|-------------|---------------|------|----------|-----|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |             | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4"   | -04  | Q00811341A-04-04 | Q00211341A-04-04 | 1/4" NPTF   | 48.8          | 34.5 | A+B-14,2 | ø24 | 17 | 17 |
| 10   | 3/8"   | -06  | Q00811341A-06-06 | Q00211341A-06-06 | 3/8" NPTF   | 57.8          | 40   | A+B-17,5 | ø30 | 22 | 22 |
| 10   | 3/8"   | -06  | Q00811341A-06-08 | Q00211341A-06-08 | 1/2" NPTF   | 60.8          | 45   | A+B-17,5 | ø30 | 27 | 27 |
| 12.5 | 1/2"   | -08  | Q00811341A-08-08 | Q00211341A-08-08 | 1/2" NPTF   | 67            | 45   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2"   | -08  | Q00811341A-08-12 | Q00211341A-08-12 | 3/4" NPTF   | 70            | 53   | A+B-22   | ø38 | 34 | 34 |
| 20   | 3/4"   | -12  | Q00811341A-12-12 | Q00211341A-12-12 | 3/4" NPTF   | 83.5          | 56.5 | A+B-26,7 | ø45 | 34 | 34 |
| 25   | 1"     | -16  | Q00811341A-16-16 | Q00211341A-16-16 | 1" NPTF     | 97.9          | 64.5 | A+B-32,7 | ø52 | 41 | 41 |
| 31.5 | 1.1/4" | -20  | Q00811341A-20-20 | Q00211341A-20-20 | 1.1/4" NPTF | 118.0         | 75.0 | A+B-43   | ø69 | 50 | 50 |
| 40   | 1.1/2" | -24  | Q00811341A-24-24 | Q00211341A-24-24 | 1.1/2" NPTF | 133.0         | 84.0 | A+B-49   | ø83 | 60 | 60 |



**Q00811250A**  
**Q00211250A**

SAE TERMINATION ENDS  
TO ISO 8434-2

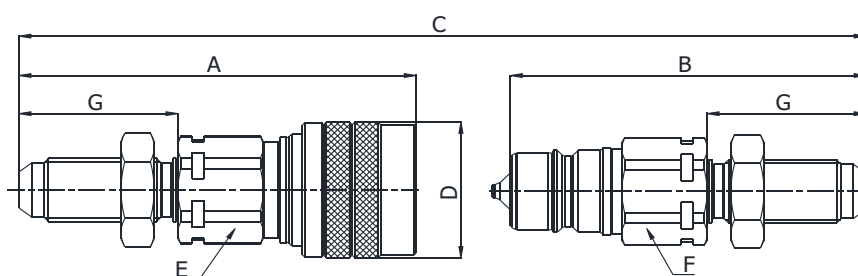
| SIZE |      |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-------------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |             | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q00811250A-06-08 | Q00211250A-06-08 | 3/4"-16 UNF | 67            | 58.2 | A+B-18,1 | ø30 | 22 | 22 |



**Q00811301A**  
**Q00211301A**

SAE TERMINATION ENDS  
TO SAE J1926-1

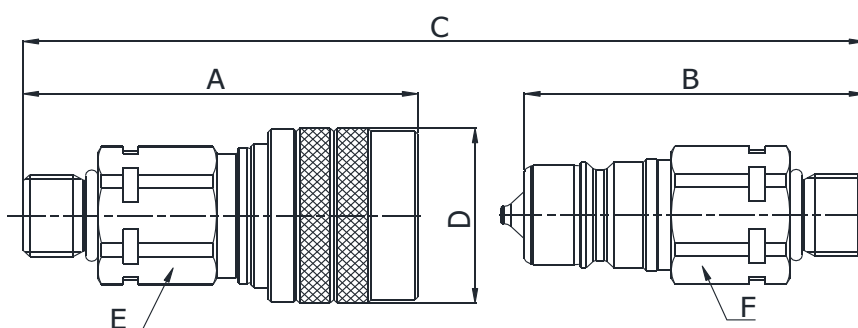
| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q00811301A-04-06 | Q00211301A-04-06 | 9/16"-18 UNF  | 50            | 34.5 | A+B-14,2 | ø24 | 17 | 17 |
| 10   | 3/8" | -06  | Q00811301A-06-06 | Q00211301A-06-06 | 9/16"-18 UNF  | 64.5          | 56   | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811301A-08-08 | Q00211301A-08-08 | 3/4"-16 UNF   | 67            | 45   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811301A-08-10 | Q00211301A-08-10 | 7/8"-14 UNF   | 69            | 50   | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q00811301A-08-12 | Q00211301A-08-12 | 1-1/16"-12 UN | 73            | 54   | A+B-21,8 | ø38 | 34 | 34 |



**Q00811230A**  
**Q00211230A**

SAE TERMINATION ENDS  
TO ISO 8434-2  
BULKHEAD

| SIZE |      |      | PART NUMBER      |                  | THREAD       | DIMENSIONS mm |      |          |     |    |    |      |
|------|------|------|------------------|------------------|--------------|---------------|------|----------|-----|----|----|------|
| DN   | Inch | Dash | Female coupling  | Male coupling    |              | A             | B    | C        | D   | E  | F  | G    |
| 10   | 3/8" | -06  | Q00811230A-06-06 | Q00211230A-06-06 | 9/16"-18 UNF | 83.8          | 75   | A+B-18   | ø30 | 22 | 22 | 22   |
| 10   | 3/8" | -06  | Q00811230A-06-10 | Q00211230A-06-10 | 7/8"-14 UNF  | 91.3          | 79.6 | A+B-17,5 | ø30 | 27 | 27 | 41   |
| 12.5 | 1/2" | -08  | Q00811230A-08-08 | Q00211230A-08-08 | 3/4"-16 UNF  | 91.8          | 80.6 | A+B-21,8 | ø38 | 27 | 27 | 36.6 |
| 12.5 | 1/2" | -08  | Q00811230A-08-10 | Q00211230A-08-10 | 7/8"-14 UNF  | 95.3          | 84.1 | A+B-21.8 | ø38 | 27 | 27 | 40.1 |



**Q00811320A**  
**Q00211320A**

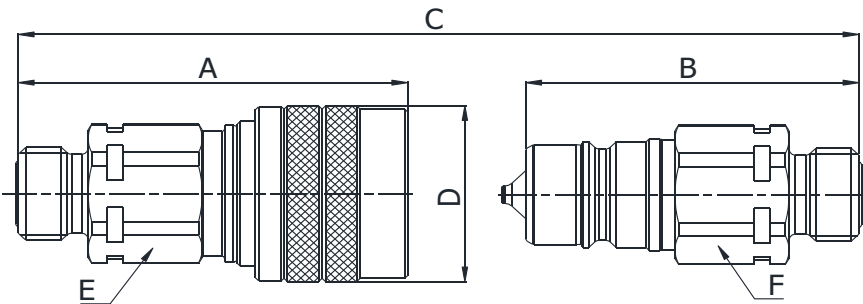
ORB TERMINATION ENDS  
TO SAE J1926-2  
S SERIES

| SIZE |      |      | PART NUMBER      |                  | THREAD       | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |              | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q00811320A-06-06 | Q00211320A-06-06 | 9/16"-18 UNF | 63            | 54.4 | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811320A-08-08 | Q00211320A-08-08 | 3/4"-16 UNF  | 70            | 60   | A+B-21,8 | ø38 | 27 | 27 |

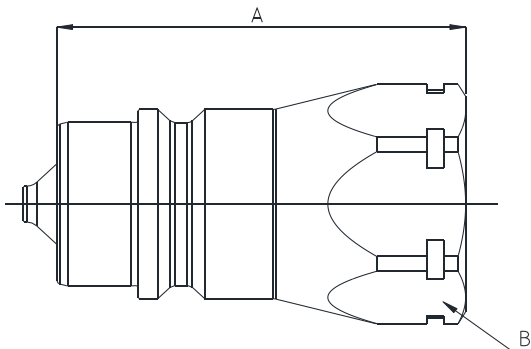


Q00811240A  
Q00211240A

ORFS TERMINATION ENDS  
TO ISO 8434-3



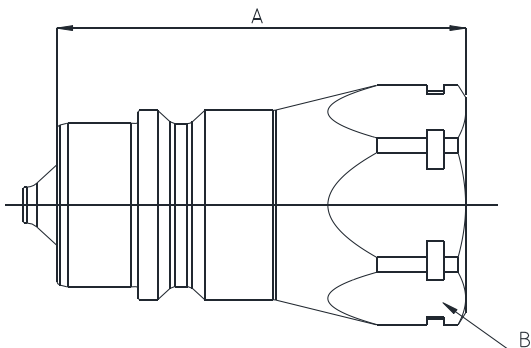
| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q00811240A-06-04 | Q00211240A-06-04 | 9/16"-18 UNF  | 60.8          | 52.3 | A+B-17,5 | ø30 | 22 | 22 |
| 10   | 3/8" | -06  | Q00811240A-06-06 | Q00211240A-06-06 | 11/16"-16 UN  | 61.2          | 52.7 | A+B-17,5 | ø30 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q00811240A-08-08 | Q00211240A-08-08 | 13/16"-16 UN  | 66.2          | 55.8 | A+B-21,8 | ø38 | 27 | 27 |
| 25   | 1"   | -16  | Q00811240A-16-16 | Q00211240A-16-16 | 1.7/16"-12 UN | 100           | 81.8 | A+B-32,7 | ø52 | 41 | 41 |



## Q00411041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

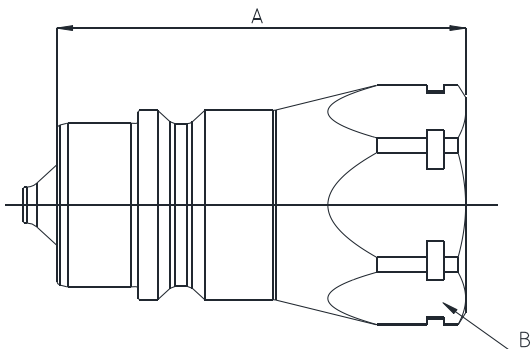
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|
| DN   | Inch | Dash |                  |        | A             | B  |  |  |  |
| 12.5 | 1/2" | 08   | Q00411041A-08-08 | 1/2"   | 47            | 27 |  |  |  |



## Q00411341A

NPTF TERMINATION ENDS  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |    |  |  |  |
|------|------|------|------------------|-----------|---------------|----|--|--|--|
| DN   | Inch | Dash |                  |           | A             | B  |  |  |  |
| 12.5 | 1/2" | 08   | Q00411341A-08-08 | 1/2" NPTF | 47            | 27 |  |  |  |



## Q00411301A

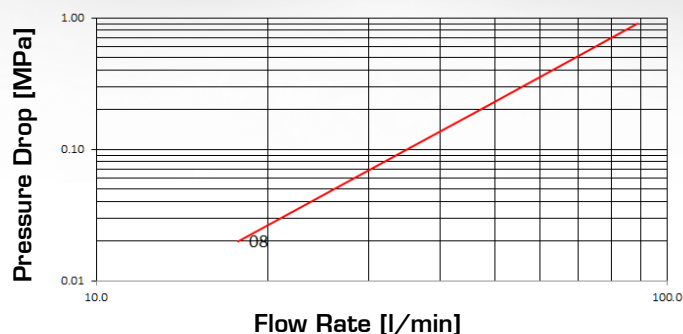
SAE TERMINATION ENDS  
TO SAE J1926-1

| SIZE |      |      | PART NUMBER      | THREAD   | DIMENSIONS mm |    |  |  |  |
|------|------|------|------------------|----------|---------------|----|--|--|--|
| DN   | Inch | Dash |                  |          | A             | B  |  |  |  |
| 12.5 | 1/2" | 08   | Q00411301A-08-08 | 3/4" UNF | 47            | 27 |  |  |  |

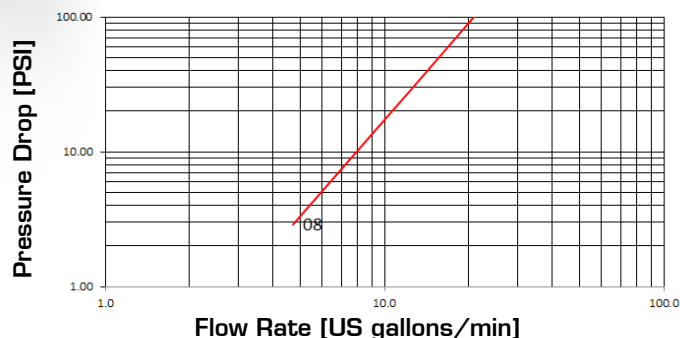


## ISO A BALL VALVES

Pressure Drop



Pressure Drop



### TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop |        | CONNECTION EFFORT |     | OIL SPILLAGE Connection/Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/DISCONNECTION UNDER PRESSURE |
|------|------|------|----------------------------|------|----------------------------------------|--------|-------------------|-----|---------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|-----------------------------------------|
| DN   | inch | Dash | MPa                        | PSI  | l/min                                  | US GPM | N                 | lb. | cc.                                   | cubic inch | Male                   |       | Female |       | M & F |       |                                         |
|      |      |      |                            |      |                                        |        |                   |     |                                       |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                         |
| 12.5 | ½    | 08   | 21                         | 3045 | 47                                     | 12.4   | 65                | 144 | 1.6                                   | 0.098      | 85                     | 12325 | 100    | 14500 | 150   | 21750 | NOT ALLOWED                             |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by the latching ball system
- Shut-off by ball valve
- High resistant materials and hardened male and sleeve to withstand the brinelling effect
- Interchangeability according to ISO 7241 series A

### MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel. Springs in C98 steel, seals in NBR (other materials on request) and back-up ring in PTFE

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For other temperatures, the coupling may be assembled with the specific seals

### SAFETY FACTOR

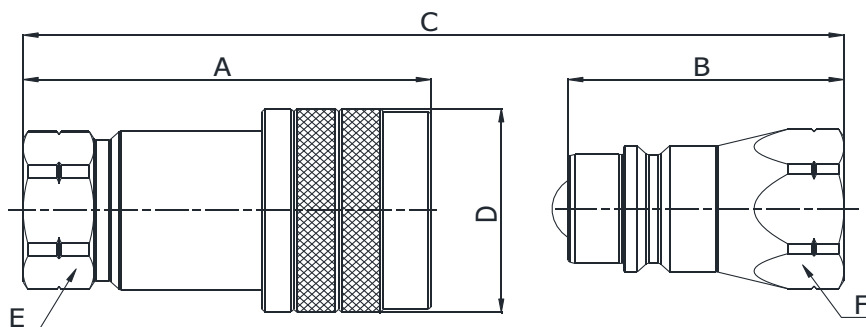
4:1 for dynamic pressures

### IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

### TEST SPECIFICATIONS

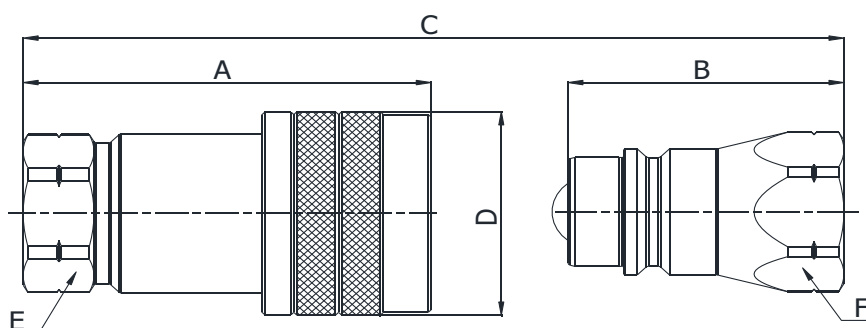
ISO 18869



**Q00911041A**  
**Q00311041A**

BSP TERMINATION ENDS  
TO DIN 3852

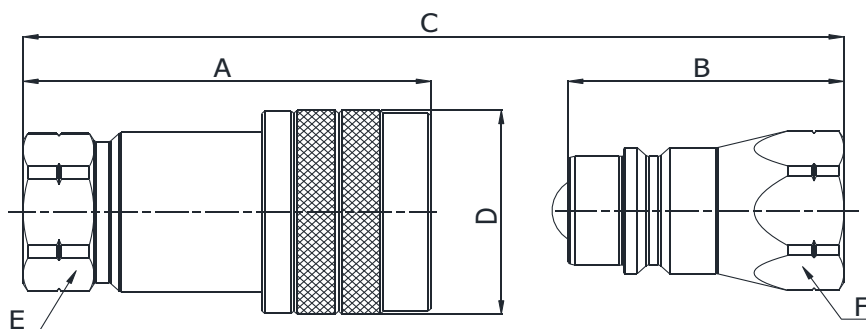
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q00911041A-08-08 | Q00310041A-08-08 | 1/2"   | 68.2          | 46.2 | A+B-21,8 | ø38 | 27 | 27 |



**Q00911341A**  
**Q00310341A**

NFTS TERMINATION ENDS  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q00911341A-08-08 | Q00310341A-08-08 | 1/2" NPTF | 68.2          | 46.2 | A+B-21,8 | ø38 | 27 | 27 |



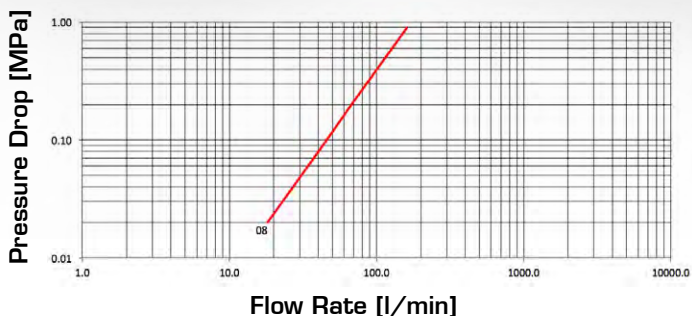
**Q00911301A**  
**Q00310301A**

SAE TERMINATION ENDS  
TO SAE J1926-1

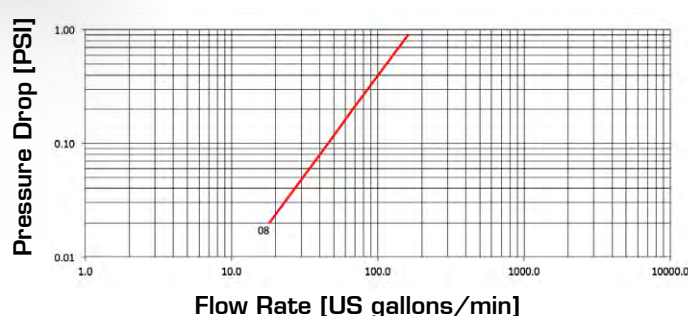
| SIZE |      |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |    |          |     |    |    |
|------|------|------|------------------|------------------|-------------|---------------|----|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |             | A             | B  | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q00911301A-08-08 | Q00310301A-08-08 | 3/4"-16 UNF | 67            | 45 | A+B-21,8 | ø38 | 27 | 27 |



Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |     |  |                     |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>(Dynamic)                                                       |      | RATED FLOW<br>at 0.2 MPa<br>of pressure drop                                        |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |                     | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch          | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |                     | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 68                                                                                  | 18.0   | 80                                                                                  | 178 | 2                                                                                   | 0.122               | 120                                                                                   | 17400 | 120    | 17400 | 160   | 23200 | Only connection                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     | With 0 MPa pressure |                                                                                       |       |        |       |       |       |                                                                                       |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Connectable under pressure thanks to a frontal micro-valve
- Connection and disconnection is possible by pulling back the sleeve
- Positive, quick connection of the male into the female by the latching ball system
- Shut-off by poppet valve
- High resistant materials
- Connectability at the maximum working pressure
- Interchangeable according to ISO 7241 series A

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel. Springs in C98 steel, seals in NBR and polyurethane (other materials on request) and back-up ring in PTFE. PU seal on ½" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

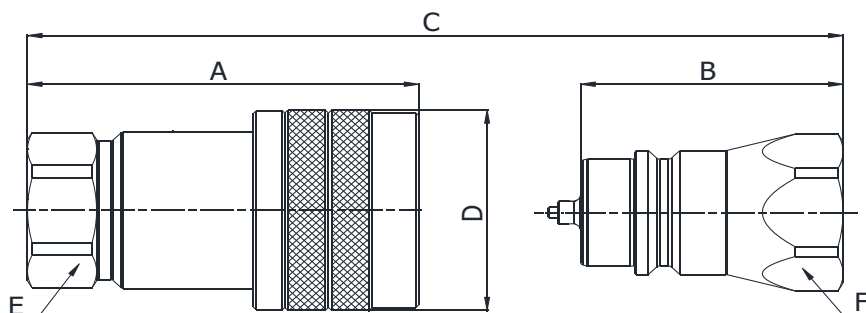
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

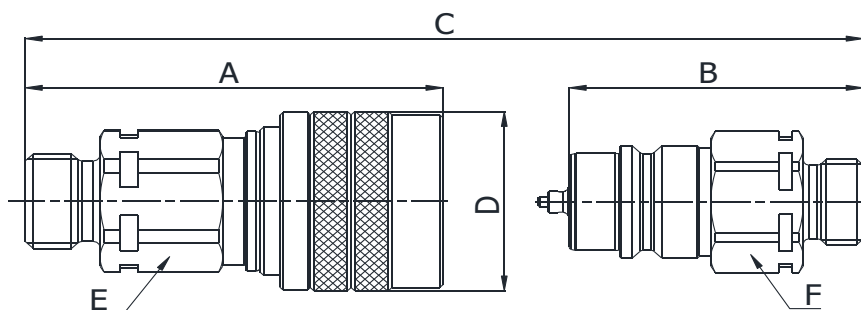
ISO 18869



**Q01011041A**  
**Q00611041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

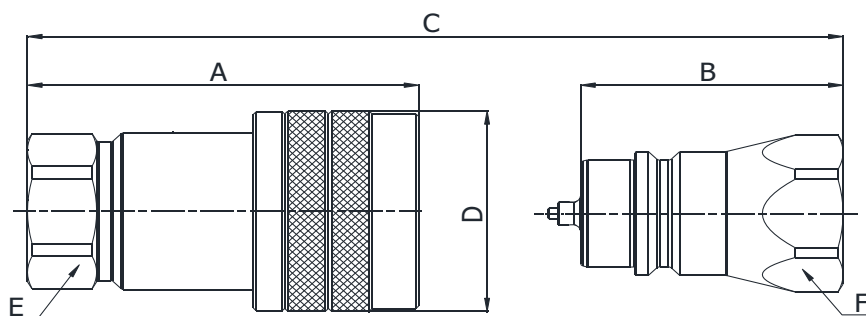
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |    |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|----|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B  | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q01011041A-08-08 | Q00611041A-08-08 | 1/2"   | 67            | 45 | A+B-21,8 | ø38 | 27 | 27 |



**Q01011110A**  
**Q00611110A**

METRIC TERMINATION END  
TO ISO 8434-1  
L SERIES

| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |    |          |     |    |    |
|------|------|------|------------------|------------------|---------|---------------|----|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B  | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q01011110A-08-18 | Q00611110A-08-18 | M18x1,5 | 65.2          | 54 | A+B-21,8 | ø38 | 27 | 27 |



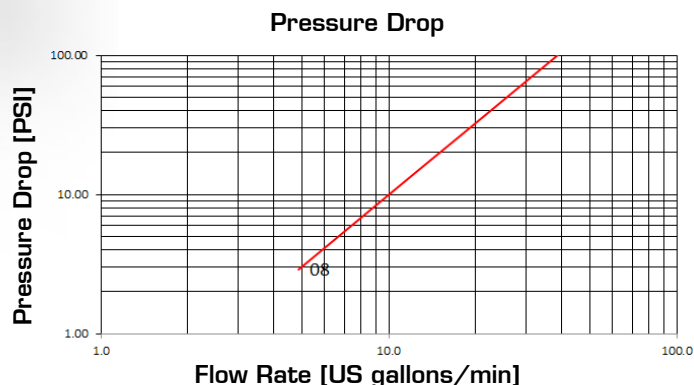
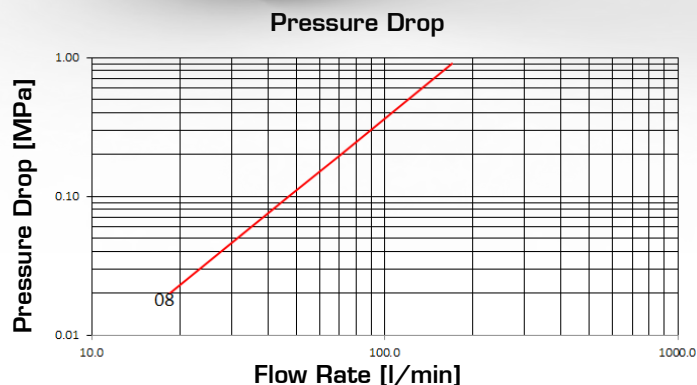
**Q01011341A**  
**Q00611341A**

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |    |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|----|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B  | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q01011341A-08-08 | Q00611341A-08-08 | 1/2" NPTF | 67            | 45 | A+B-21,8 | ø38 | 27 | 27 |



# ISO A MALE CONNECTABLE UNDER PRESSURE



## TECHNICAL DATA

|  |      |      |  |      |  |           |  |     |  |               |  |     |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-----|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>[Dynamic]                                                       |      | RATED FLOW<br>at 0.2 MPa<br>of pressure<br>drop                                     |           | CONNECTION<br>EFFORT                                                                |     | OIL<br>SPILLAGE<br>Connection/<br>Disconnec-<br>tion                                |               | MINIMUM BURST PRESSURE                                                                |     |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US<br>GPM | N                                                                                   | lb. | cc.                                                                                 | cubic<br>inch | Male                                                                                  |     | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |           |                                                                                     |     |                                                                                     |               | MPa                                                                                   | PSI | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 71                                                                                  | 18.8      | 80                                                                                  | 178 | 2                                                                                   | 0.122         | -                                                                                     | -   | 125    | 18125 | 125   | 18125 | Connection only, with<br>male under pressure                                          |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Connectable with male ISO A under pressure
- High working pressure 30MPa
- Simple connection and disconnection by pulling back the sleeve
- No shut-off, Manuli mechanical valve block system
- Installations on hoses, pipe and direct to port
- Wide range of termination ends
- Interchangeability according to ISO 7241 series A

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Carbonitrided valve, and sleeve, springs in C98 steel, seals in NBR (other materials on request) and back-up ring in PTFE. PU seal on ½" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

4:1 for dynamic pressures

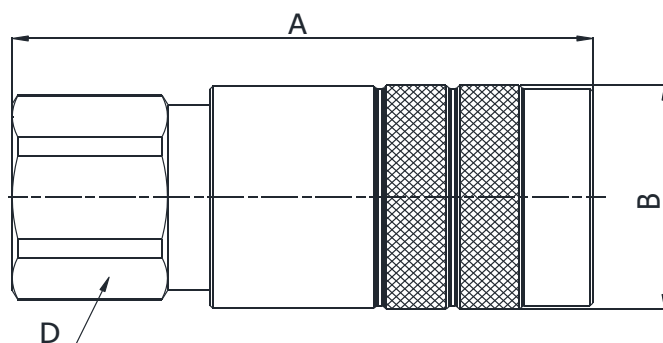
## IMPULSE PRESSURES

500,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

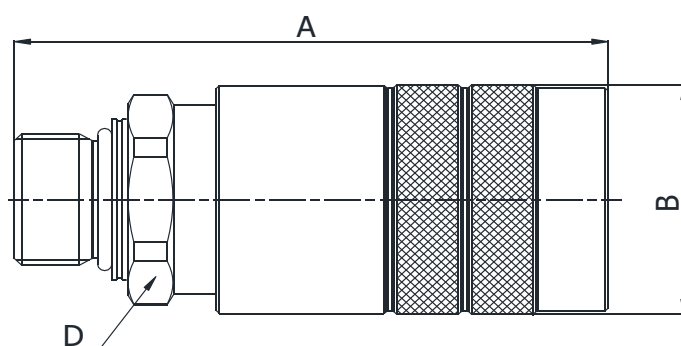




# Q01111041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

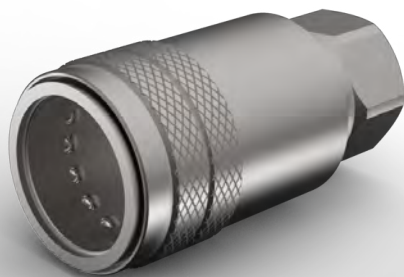
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |       |    |  |  |  |
|------|------|------|------------------|--------|---------------|-------|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B     | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01111041A-08-08 | 1/2"   | 91.7          | ø38,3 | 32 |  |  |  |



# Q01111190A

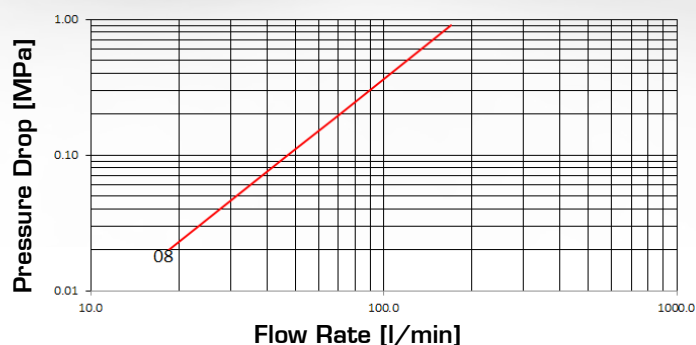
METRIC TERMINATION ENDS  
TO ISO 6149-1

| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |       |    |  |  |  |
|------|------|------|------------------|---------|---------------|-------|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B     | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01111190A-08-22 | M22x1,5 | 91.2          | ø38,3 | 32 |  |  |  |

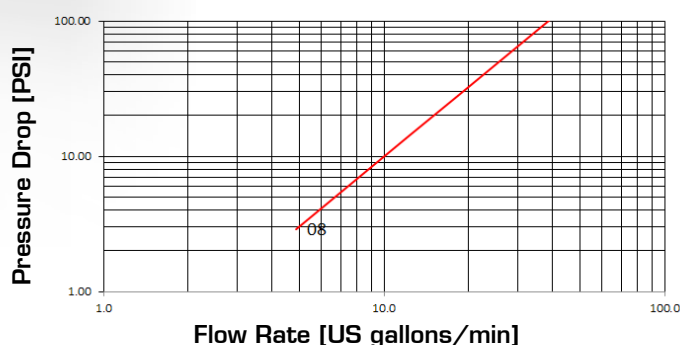


# ISO A BOTH PARTS CONNECTABLE UNDER PRESSURE

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |     |  |            |  |     |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-----|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE [Dynamic]                                                          |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE Connection/Disconnection                                               |            | MINIMUM BURST PRESSURE                                                                |     |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch | Male                                                                                  |     | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |            | MPa                                                                                   | PSI | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 71                                                                                  | 18.8   | 80                                                                                  | 178 | 2                                                                                   | 0.122      | -                                                                                     | -   | 125    | 18125 | 125   | 18125 | Connection only, with male and female under pressure                                  |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Connectable with male (ISO A) and female under pressure
- High working pressure 30MPa
- Simple connection and disconnection by pulling back the sleeve
- No shut-off, Manuli mechanical valve block system
- Installations on hoses, pipe and direct to port
- Wide range of termination ends
- Interchangeable according to ISO 7241 series A

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Carbonitrided valves and sleeve, springs in C98 steel, seals in NBR and polyurethane (other materials on request) and back-up ring in PTFE. PU seal on ½" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

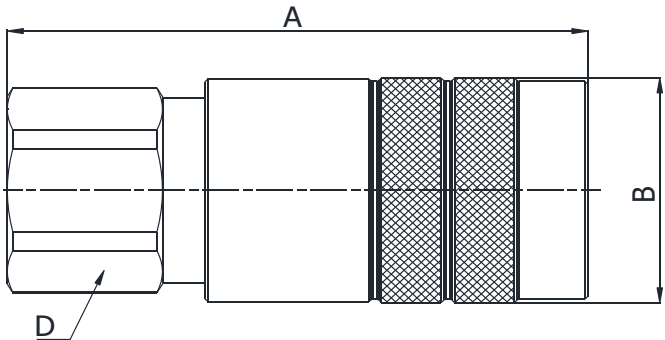
4:1 for dynamic pressures

## IMPULSE PRESSURES

500,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

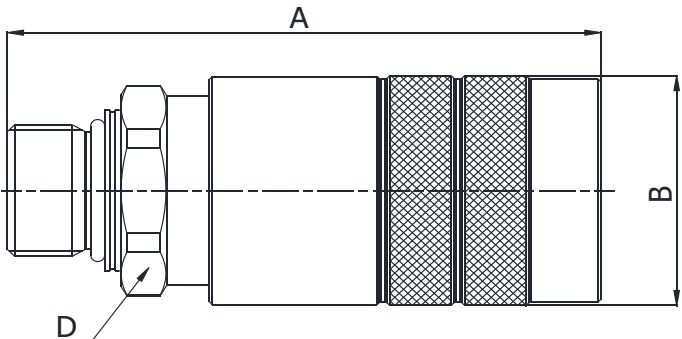
ISO 18869



## Q01211041A

BSP TERMINATION ENDS  
TO DIN3852

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |       |    |  |  |  |
|------|------|------|------------------|--------|---------------|-------|----|--|--|--|
| DN   | Inch | Dash |                  |        | A             | B     | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01211041A-08-08 | 1/2"   | 93.6          | ø38,3 | 32 |  |  |  |



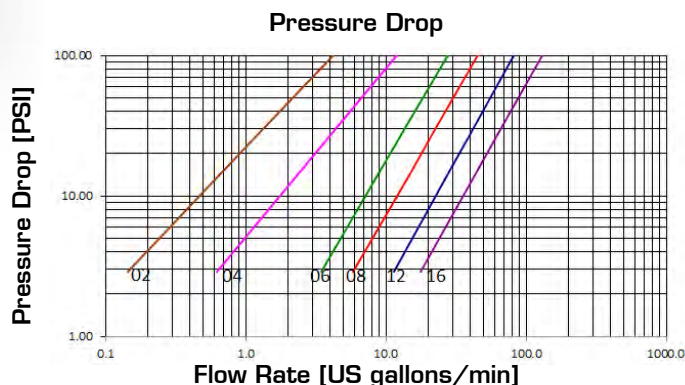
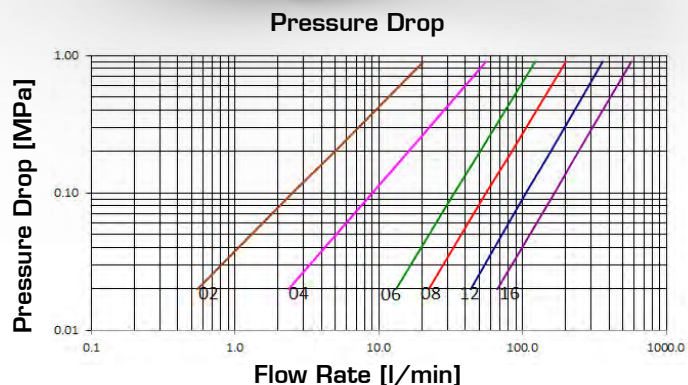
## Q01211190A

METRIC TERMINATION ENDS  
TO ISO 6149-2

| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |       |    |  |  |  |
|------|------|------|------------------|---------|---------------|-------|----|--|--|--|
| DN   | Inch | Dash |                  |         | A             | B     | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01211190A-08-22 | M22x1,5 | 93.1          | ø38,3 | 32 |  |  |  |



# ISO B POPPET VALVES



## TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop |        | CONNECTION EFFORT |      | OIL SPILLAGE Connection/Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE |
|------|------|------|----------------------------|------|----------------------------------------|--------|-------------------|------|---------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------|
| DN   | inch | Dash | MPa                        | PSI  | l/min                                  | US GPM | N                 | lb.  | cc.                                   | cubic inch | Male                   |       | Female |       | M & F |       |                                          |
|      |      |      |                            |      |                                        |        |                   |      |                                       |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                          |
| 5    | 1/8  | 02   | 50                         | 7250 | 5                                      | 1.3    | 40                | 9.0  | 0.5                                   | 0.031      | 210                    | 30450 | 270    | 39150 | 220   | 31900 | Not allowed                              |
| 6.3  | 1/4  | 04   | 40                         | 5800 | 16                                     | 4.3    | 40                | 9.0  | 0.8                                   | 0.049      | 180                    | 26100 | 190    | 27550 | 165   | 23925 | Not allowed                              |
| 10   | 3/8  | 06   | 35                         | 5075 | 51                                     | 13.5   | 40                | 9.0  | 1.5                                   | 0.092      | 145                    | 21025 | 160    | 23200 | 160   | 23200 | Not allowed                              |
| 12.5 | 1/2  | 08   | 35                         | 5075 | 84                                     | 22.0   | 70                | 15.7 | 2.5                                   | 0.153      | 145                    | 21025 | 145    | 21025 | 160   | 23200 | Not allowed                              |
| 20   | 3/4  | 12   | 25                         | 3625 | 156                                    | 41.5   | 90                | 20.2 | 8.5                                   | 0.519      | 100                    | 14500 | 100    | 14500 | 125   | 18125 | Not allowed                              |
| 25   | 1    | 16   | 25                         | 3625 | 246                                    | 65.0   | 90                | 20.2 | 15.0                                  | 0.915      | 100                    | 14500 | 100    | 14500 | 120   | 17400 | Not allowed                              |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Reference series for all industrial applications
- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by latching the ball system
- Shut-off by poppet valve
- High resistant materials
- Interchangeable according to ISO 7241 series B

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. Springs in C98 steel, seals in NBR (other materials on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

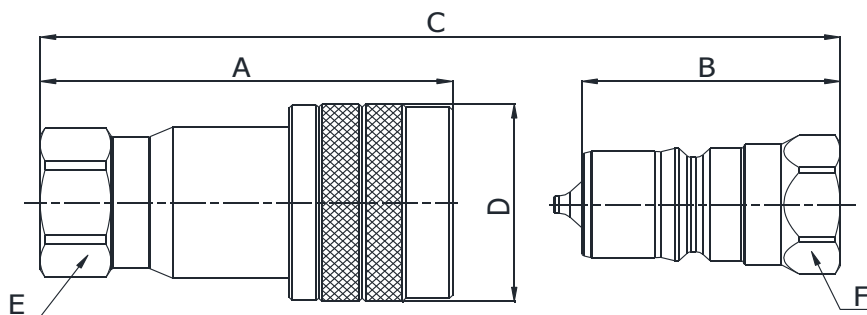
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

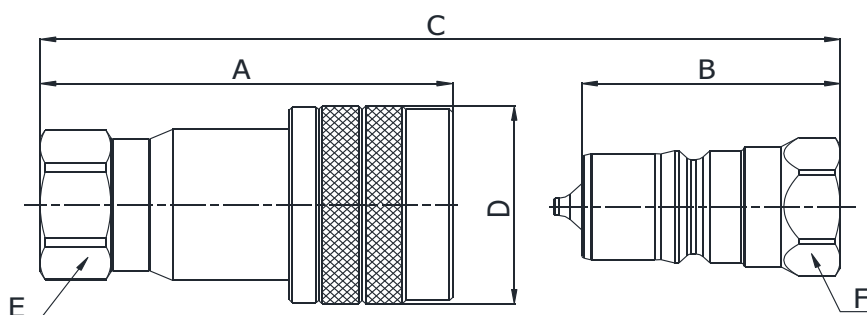
ISO 18869



**Q02411041A**  
**Q02111041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

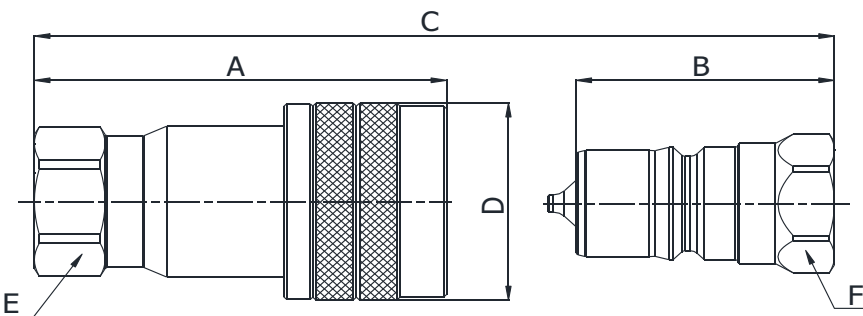
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 5    | 1/8" | -02  | Q02411041A-02-02 | Q02111041A-02-02 | 1/8"   | 48.5          | 30   | A+B-18,7 | ø22 | 15 | 14 |
| 6.3  | 1/4" | -04  | Q02411041A-04-04 | Q02111041A-04-04 | 1/4"   | 58.8          | 37.2 | A+B-21,2 | ø28 | 19 | 19 |
| 10   | 3/8" | -06  | Q02411041A-06-06 | Q02111041A-06-06 | 3/8"   | 66.2          | 41.5 | A+B-24,4 | ø35 | 24 | 22 |
| 12.5 | 1/2" | -08  | Q02411041A-08-08 | Q02111041A-08-08 | 1/2"   | 74            | 46.5 | A+B-27,2 | ø42 | 30 | 27 |
| 20   | 3/4" | -12  | Q02411041A-12-12 | Q02111041A-12-12 | 3/4"   | 91            | 56.5 | A+B-34,2 | ø52 | 36 | 36 |
| 25   | 1"   | -16  | Q02411041A-16-16 | Q02111041A-16-16 | 1"     | 104           | 64.5 | A+B-39,2 | ø60 | 41 | 41 |



**Q02411341A**  
**Q02111341A**

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 5    | 1/8" | -02  | Q02411341A-02-02 | Q02111341A-02-02 | 1/8" NPTF | 48.5          | 30   | A+B-18,7 | ø22 | 15 | 14 |
| 6.3  | 1/4" | -04  | Q02411341A-04-04 | Q02111341A-04-04 | 1/4" NPTF | 58.8          | 37.2 | A+B-21,2 | ø28 | 19 | 19 |
| 10   | 3/8" | -06  | Q02411341A-06-06 | Q02111341A-06-06 | 3/8" NPTF | 66.2          | 41.5 | A+B-24,4 | ø35 | 24 | 22 |
| 12.5 | 1/2" | -08  | Q02411341A-08-08 | Q02111341A-08-08 | 1/2" NPTF | 74            | 46.5 | A+B-27,2 | ø42 | 30 | 27 |
| 20   | 3/4" | -12  | Q02411341A-12-12 | Q02111341A-12-12 | 3/4" NPTF | 91            | 56.5 | A+B-34,2 | ø52 | 36 | 36 |
| 25   | 1"   | -16  | Q02411341A-16-16 | Q02111341A-16-16 | 1" NPTF   | 104           | 64.5 | A+B-39,2 | ø60 | 41 | 41 |



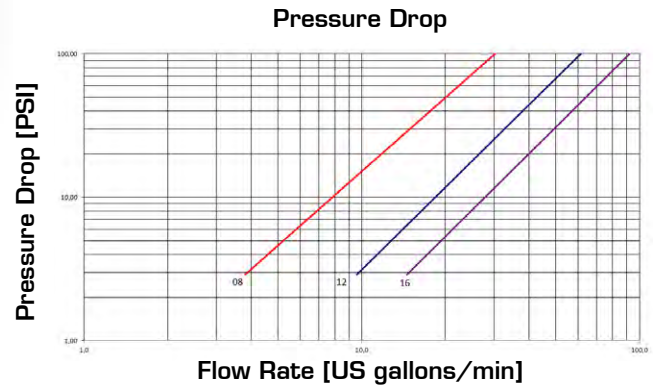
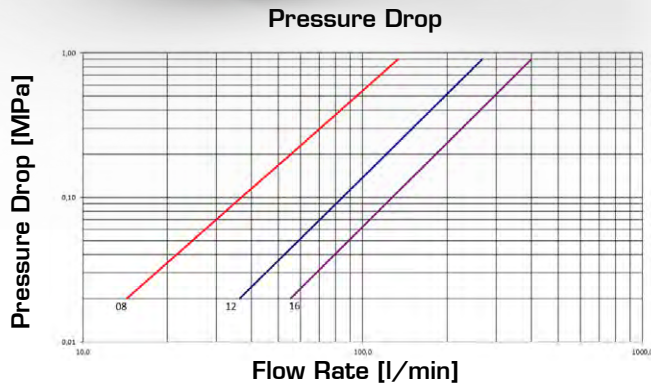
**Q02411301A**  
**Q02111301A**

SAE TERMINATION ENDS  
TO SAE J1926-1

| SIZE |      |      | PART NUMBER      |                  | THREAD       | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |              | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q02411301A-04-06 | Q02111301A-04-06 | 9/16"-18UNF  | 62.2          | 40.6 | A+B-21,2 | ø28 | 19 | 19 |
| 10   | 3/8" | -06  | Q02411301A-06-08 | Q00211301A-06-08 | 3/4"-16 UNF  | 68.2          | 46   | A+B-24,4 | ø35 | 24 | 24 |
| 12.5 | 1/2" | -08  | Q02411301A-08-08 | Q02111301A-08-08 | 3/4"-16 UNF  | 74            | 46.5 | A+B-27,2 | ø42 | 30 | 27 |
| 20   | 3/4" | -12  | Q02411301A-12-12 | Q02111301A-12-12 | 1"1/16-12 UN | 94            | 59.5 | A+B-34,2 | ø52 | 36 | 34 |
| 25   | 1"   | -16  | Q02411301A-16-16 | Q02111301A-16-16 | 1"5/16-12 UN | 104           | 64.5 | A+B-39,2 | ø60 | 41 | 41 |



# ISO B FOR DRILLING BOP UNITS



## TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE [Connected] |      | WORKING PRESSURE [Disconnected] |      | RATED FLOW at 0.2 MPa of pressure drop |        | CONNECTION EFFORT |     | OIL SPILLAGE Connection/ Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE |
|------|------|------|------------------------------|------|---------------------------------|------|----------------------------------------|--------|-------------------|-----|----------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------|
| DN   | inch | Dash | MPa                          | PSI  | MPa                             | PSI  | l/min                                  | US GPM | N                 | lb. | cc.                                    | cubic inch | Male                   |       | Female |       | M & F |       |                                          |
|      |      |      | MPa                          | PSI  | MPa                             | PSI  |                                        |        |                   |     |                                        |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                          |
| 12.5 | ½    | 08   | 42                           | 6090 | 35                              | 5075 | 55                                     | 14.6   | 70                | 156 | 2.5                                    | 0.153      | 140                    | 20300 | 140    | 20300 | 180   | 26100 | Not allowed                              |
| 20   | ¾    | 12   | 35                           | 5075 | 25                              | 3625 | 122                                    | 32.1   | 90                | 200 | 8.5                                    | 0.519      | 100                    | 14500 | 100    | 14500 | 150   | 21750 | Not allowed                              |
| 25   | 1    | 16   | 35                           | 5075 | 25                              | 3625 | 183                                    | 48.3   | 90                | 200 | 15                                     | 0.916      | 100                    | 14500 | 100    | 14500 | 140   | 20300 | Not allowed                              |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- MQS-B BOP VERSION is designed for BOP (Blow-out preventer) service in Oil & Gas Industry
- Simple connection & disconnection by pulling back the sleeve
- Safety system on the female part to avoid accidental disconnection
- Positive quick connection of the male into the female by latching ball system
- Poppet valve sealing system that guarantee high sealing performance at low & high pressure
- ECOAT zinc plating with improved corrosion protection and environmentally friendly process
- Female & Male Coupling with red identification for an easy visual verification
- ISO 7241 series B interchangeable
- API 16D approval.

## MATERIAL

Female & male couplings in high grade carbon steel with hardened areas in correspondence to the most stressed points. Seal in Viton with back-up in PTFE.

## WORKING TEMPERATURE

-25°C to +200°C

## SAFETY FACTOR

4:1 in CONNECTED & DISCONNECTED conditions

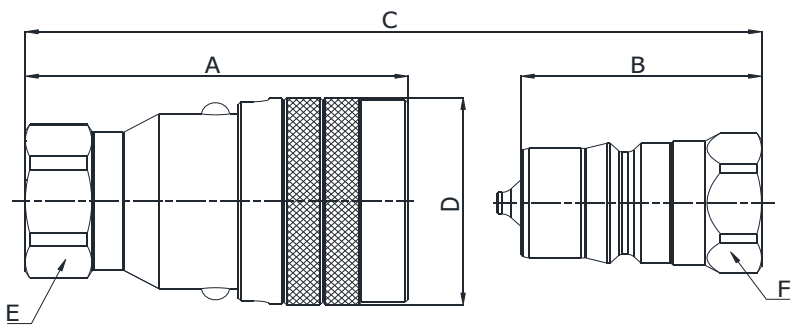
## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869 , Flame resistance test to API 16D





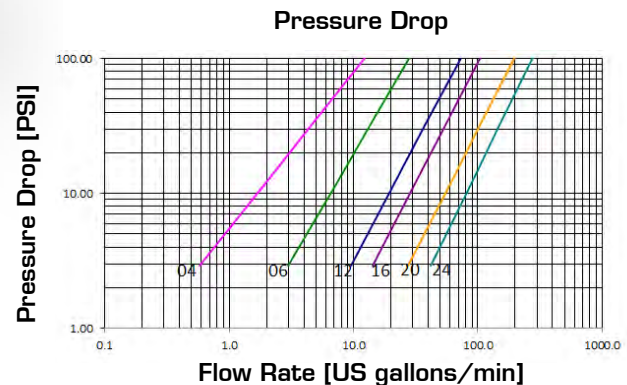
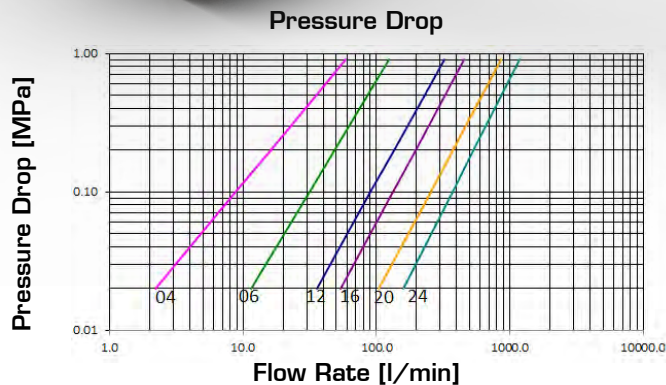
**Q02613341F**  
**Q02113341F**

NPTF TERMINATION ENDS  
TO ANSI B1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q02613341F-08-08 | Q02113341F-08-08 | 1/2" NPTF | 74            | 46.5 | A+B-27,2 | ø44 | 30 | 27 |
| 20   | 3/4" | -12  | Q02613341F-12-12 | Q02113341F-12-12 | 3/4" NPTF | 91            | 56.5 | A+B-34,2 | ø54 | 36 | 34 |
| 25   | 1"   | -16  | Q02613341F-16-16 | Q02113341F-16-16 | 1" NPTF   | 104           | 64.5 | A+B-39,2 | ø64 | 46 | 41 |



# STANDARD POPPET VALVES



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |     |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE [Dynamic]                                                          |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 6.3                                                                                 | ¼    | 04   | 35                                                                                  | 5075 | 16                                                                                  | 4.2    | 40                                                                                  | 89  | 0.8                                                                                 | 0.049      | 190                                                                                   | 27550 | 190    | 27550 | 140   | 20300 | Not allowed                                                                           |  |
| 10                                                                                  | ⅜    | 06   | 35                                                                                  | 5075 | 49                                                                                  | 12.9   | 65                                                                                  | 144 | 1.3                                                                                 | 0.079      | 150                                                                                   | 21750 | 160    | 23200 | 160   | 23200 | Not allowed                                                                           |  |
| 12.5                                                                                | ½    | 08   | See ISO A Series                                                                    |      |                                                                                     |        |                                                                                     |     |                                                                                     |            |                                                                                       |       |        |       |       |       |                                                                                       |  |
| 20                                                                                  | ¾    | 12   | 25                                                                                  | 3625 | 135                                                                                 | 35.7   | 80                                                                                  | 178 | 7                                                                                   | 0.427      | 110                                                                                   | 15950 | 100    | 14500 | 120   | 17400 | Not allowed                                                                           |  |
| 25                                                                                  | 1    | 16   | 25                                                                                  | 3625 | 196                                                                                 | 51.8   | 90                                                                                  | 200 | 11                                                                                  | 0.672      | 100                                                                                   | 14500 | 110    | 15950 | 120   | 17400 | Not allowed                                                                           |  |
| 31.5                                                                                | 1¼   | 20   | 22                                                                                  | 3190 | 376                                                                                 | 99.3   | 105                                                                                 | 233 | 15                                                                                  | 0.916      | 90                                                                                    | 13050 | 90     | 13050 | 100   | 14500 | Not allowed                                                                           |  |
| 40                                                                                  | 1½   | 24   | 21                                                                                  | 3045 | 536                                                                                 | 141.6  | 115                                                                                 | 256 | 24                                                                                  | 1.465      | 85                                                                                    | 12325 | 90     | 13050 | 100   | 14500 | Not allowed                                                                           |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Historical series for the agriculture market
- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by latching the ball system
- Shut-off by poppet valve
- High resistant materials
- Interchangeable with similar products available on the market (1/2" size according to ISO 7241-1 series A)

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. Springs in C98 steel, seals in NBR (other materials on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

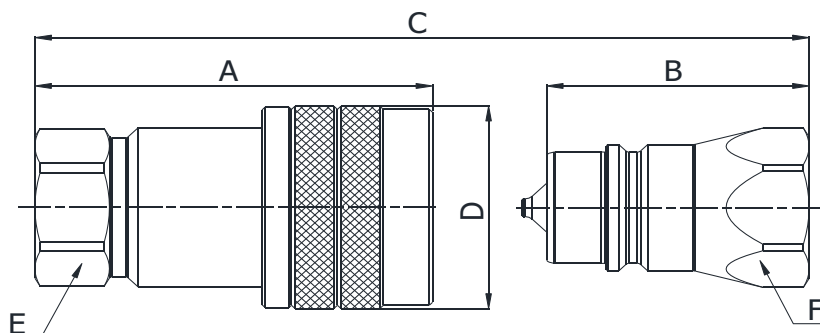
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869



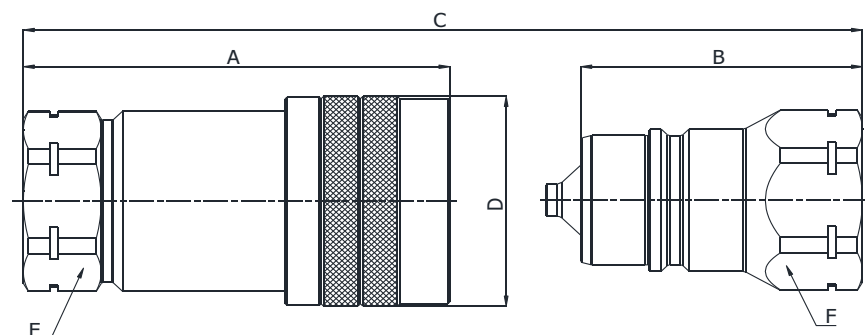
**Q03211041A**  
**Q02911041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|--------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4"   | -04  | Q03211041A-04-04 | Q02911041A-04-04 | 1/4"   | 53.5          | 36.5 | A+B-16,6 | ø27 | 19 | 19 |
| 10   | 3/8"   | -06  | Q03211041A-06-06 | Q02911041A-06-06 | 3/8"   | 60.5          | 40   | A+B-20,1 | ø34 | 24 | 24 |
| 12.5 | 1/2"   | -08  | SEE ISO SERIES A |                  |        |               |      |          |     |    |    |
| 20   | 3/4"   | -12  | Q03211041A-12-12 | Q02911041A-12-12 | 3/4"   | 85.5          | 56.5 | A+B-28,3 | ø47 | 34 | 34 |
| 25   | 1"     | -16  | Q03211041A-16-16 | Q02911041A-16-16 | 1"     | 98            | 64.5 | A+B-32,9 | ø52 | 41 | 41 |
| 31.5 | 1.1/4" | -20  | Q03211041A-20-20 | Q02911041A-20-20 | 1.1/4" | 119.5         | 78   | A+B-41,5 | ø68 | 50 | 50 |
| 40   | 1.1/2" | -24  | Q03211041A-24-24 | Q02911041A-24-24 | 1.2/2" | 132           | 88   | A+B-44,2 | ø80 | 60 | 60 |

**Q03211041B**  
**Q02911041B**

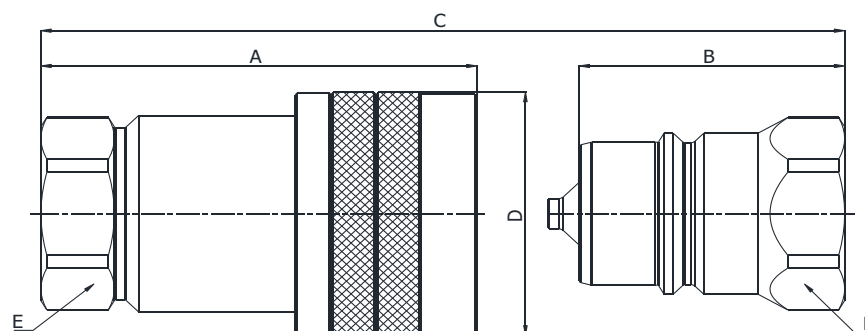
BSP TERMINATION ENDS  
TO DIN 3852 X TYPE



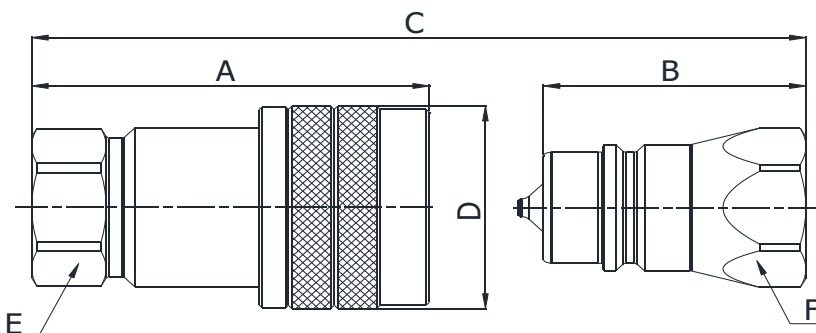
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 20   | 3/4" | -12  | Q03211041B-12-12 | Q02911041B-12-12 | 3/4"   | 88            | 56.5 | A+B-31   | ø47 | 34 | 34 |
| 25   | 1"   | -16  | Q03211041B-16-16 | Q02911041B-16-16 | 1"     | 98            | 64.5 | A+B-32,9 | ø52 | 41 | 41 |

**Q03211041C**  
**Q02911041C**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE



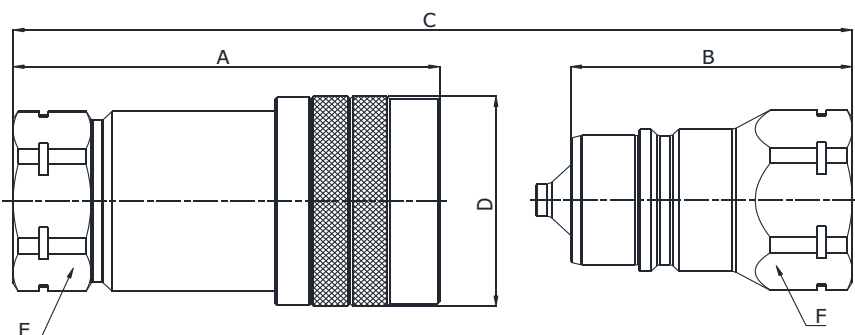
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |       |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-------|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D     | E  | F  |
| 25   | 1"   | -16  | Q03211041C-16-16 | Q02911041C-16-16 | 1"     | 106           | 64.5 | A+B-40,9 | ø64,3 | 46 | 46 |



**Q03211341A**  
**Q02911341A**

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |        |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|--------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4"   | -04  | Q03211341A-04-04 | Q02911341A-04-04 | 1/4" NPTF | 53.5          | 36.5 | A+B-16,6 | ø27 | 19 | 19 |
| 10   | 3/8"   | -06  | Q03211341A-06-06 | Q02911341A-06-06 | 3/8" NPTF | 60.5          | 40   | A+B-20,1 | ø34 | 24 | 24 |
| 12.5 | 1/2"   | -08  | SEE ISO SERIES A |                  |           |               |      |          |     |    |    |
| 20   | 3/4"   | -12  | Q03211341A-12-12 | Q02911341A-12-12 | 3/4" NPTF | 85.5          | 56.5 | A+B-28,3 | ø47 | 34 | 34 |
| 25   | 1"     | -16  | Q03211341A-16-16 | Q02911341A-16-16 | 1" NPTF   | 98            | 64.5 | A+B-32,9 | ø52 | 41 | 41 |
| 31.5 | 1.1/4" | -20  | Q03211341A-20-20 | Q02911341A-20-20 | 1.1/4"    | 119.5         | 78   | A+B-41,5 | ø68 | 50 | 50 |
| 40   | 1.1/2" | -24  | Q03211341A-24-24 | Q02911341A-24-24 | 1.2/2"    | 132           | 88   | A+B-44,2 | ø80 | 60 | 60 |



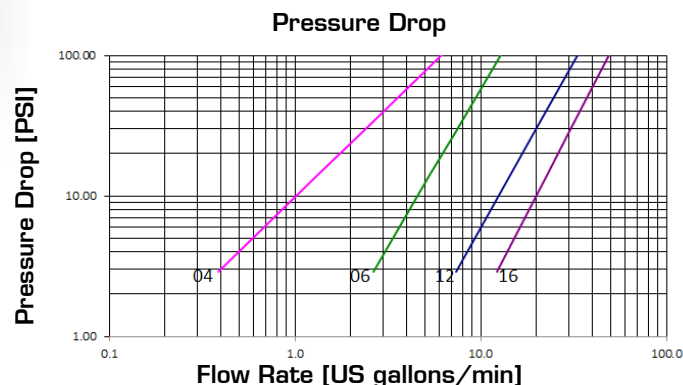
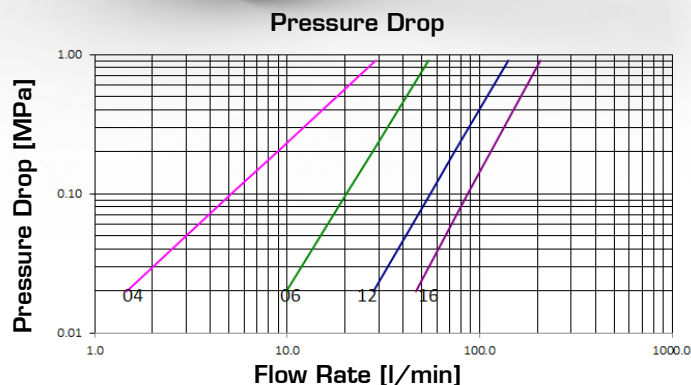
**Q03211341B**  
**Q02911341B**

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 20   | 3/4" | -12  | Q03211341B-12-12 | Q02911341B-12-12 | 3/4" NPTF | 88            | 56.5 | A+B-31   | ø47 | 34 | 34 |
| 25   | 1"   | -16  | Q03211341B-16-16 | Q02911341B-16-16 | 1" NPTF   | 98            | 64.5 | A+B-32,9 | ø52 | 41 | 41 |



# STANDARD BALL VALVES



## TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE [Dynamic]   |      | RATED FLOW at 0.2 MPa of pressure drop |        | CONNECTION EFFORT |     | OIL SPILLAGE Connection/Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/DISCONNECTION UNDER PRESSURE |
|------|------|------|------------------------------|------|----------------------------------------|--------|-------------------|-----|---------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|-----------------------------------------|
| DN   | inch | Dash | MPa                          | PSI  | l/min                                  | US GPM | N                 | lb. | cc.                                   | cubic inch | Male                   |       | Female |       | M & F |       |                                         |
|      |      |      |                              |      |                                        |        |                   |     |                                       |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                         |
| 6.3  | 1/4  | 04   | 30                           | 4350 | 9                                      | 2.4    | 40                | 89  | 0.35                                  | 0.021      | 140                    | 20300 | 125    | 18125 | 150   | 21750 | Not allowed                             |
| 10   | 3/8  | 06   | 25                           | 3625 | 28                                     | 7.4    | 65                | 144 | 0.85                                  | 0.052      | 115                    | 16675 | 120    | 17400 | 160   | 23200 | Not allowed                             |
| 12.5 | 1/2  | 08   | See ISO A Series sealed ball |      |                                        |        |                   |     |                                       |            |                        |       |        |       |       |       |                                         |
| 20   | 3/4  | 12   | 25                           | 3625 | 74                                     | 19.6   | 75                | 167 | 3.5                                   | 0.214      | 100                    | 14500 | 110    | 15950 | 125   | 18125 | Not allowed                             |
| 25   | 1    | 16   | 21                           | 3045 | 114                                    | 30.1   | 100               | 222 | 5                                     | 0.305      | 85                     | 12325 | 100    | 14500 | 110   | 15950 | Not allowed                             |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Historical series for the agriculture market
- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by latching the ball system
- Shut-off by ball valve
- High resistant materials
- Interchangeable with poppet valve standard series and with similar products available on the market (1/2" size according to ISO 7241-1 series A)

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. High-resistance latching balls, springs in C98 steel, seals in NBR and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling may be assembled with the specific seals

## SAFETY FACTOR

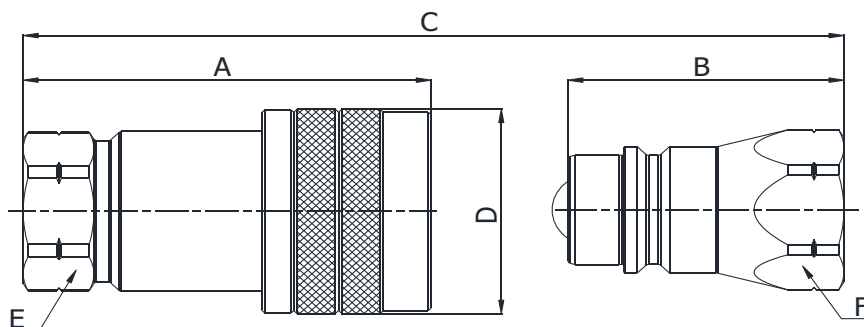
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

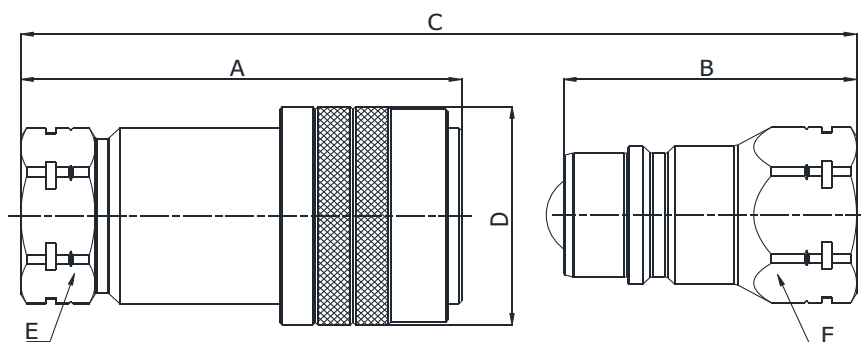
ISO 18869



**Q03311041A**  
**Q03011041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

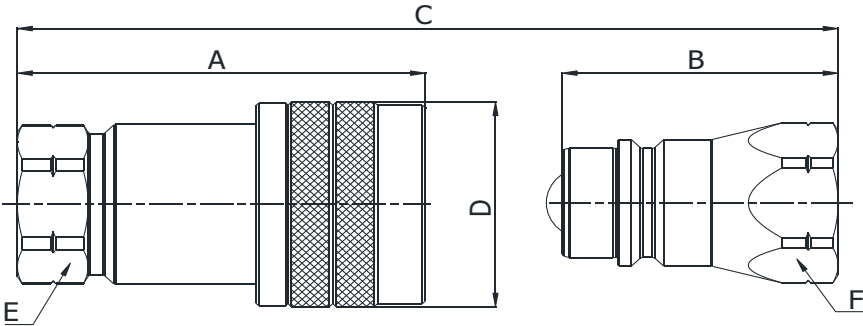
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q03311041A-04-04 | Q03010041A-04-04 | 1/4"   | 51.3          | 34.3 | A+B-16,6 | ø27 | 19 | 19 |
| 10   | 3/8" | -06  | Q03311041A-06-06 | Q03010041A-06-06 | 3/8"   | 59.9          | 39.4 | A+B-20,1 | ø34 | 24 | 24 |
| 12.5 | 1/2" | -08  | SEE ISO SERIES A |                  |        |               |      |          |     |    |    |
| 20   | 3/4" | -12  | Q03311041A-12-12 | Q03010041A-12-12 | 3/4"   | 85.5          | 56.5 | A+B-28,3 | ø47 | 34 | 34 |
| 25   | 1"   | -16  | Q03311041A-16-16 | Q03010041A-16-16 | 1"     | 98            | 64.5 | A+B-32,9 | ø52 | 41 | 41 |



**Q03311041B**  
**Q03011041B**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

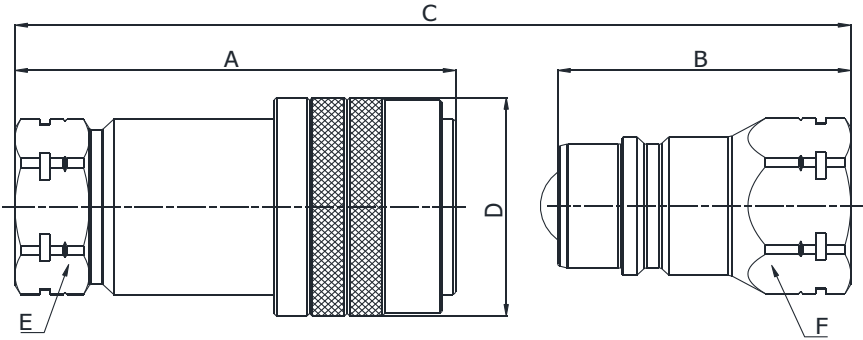
| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 20   | 3/4" | -12  | Q03311041B-12-12 | Q03010041B-12-12 | 3/4"   | 88            | 58.5 | A+B-31,5 | ø47 | 34 | 34 |



**Q03311341A**  
**Q03011341A**

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q03311341A-04-04 | Q03010341A-04-04 | 1/4" NPTF | 51.3          | 34.3 | A+B-16,6 | ø27 | 19 | 19 |
| 10   | 3/8" | -06  | Q03311341A-06-06 | Q03010341A-06-06 | 3/8" NPTF | 59.9          | 39.4 | A+B-20,1 | ø34 | 24 | 24 |
| 12.5 | 1/2" | -08  | SEE ISO SERIES A |                  |           |               |      |          |     |    |    |
| 20   | 3/4" | -12  | Q03311341A-12-12 | Q03010341A-12-12 | 3/4" NPTF | 85.5          | 56.5 | A+B-28,3 | ø47 | 34 | 34 |
| 25   | 1"   | -16  | Q03311341A-16-16 | Q03010341A-16-16 | 1" NPTF   | 98            | 64.5 | A+B-32,9 | ø52 | 41 | 41 |



**Q03311341B**  
**Q03011341B**

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q03311341B-12-12 | Q03010341B-12-12 | 3/4" NPTF | 88            | 58.5 | A+B-31,5 | ø47 | 34 | 34 |





# STANDARD FREE-FLOW

## TECHNICAL DATA

|  |      |      |  |      |  |       |  |
|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| SIZE                                                                              |      |      | WORKING PRESSURE (Dynamic)                                                        |      | MINIMUM BURST PRESSURE                                                             |       | CONNECTION / DISCONNECTION UNDER PRESSURE                                           |
| DN                                                                                | inch | Dash | MPa                                                                               | PSI  | M & F                                                                              |       |                                                                                     |
|                                                                                   |      |      |                                                                                   |      | MPa                                                                                | PSI   |                                                                                     |
| 6.3                                                                               | 1/4  | 04   | 35                                                                                | 5075 | 160                                                                                | 23200 | Not allowed                                                                         |
| 10                                                                                | 3/8  | 06   | 35                                                                                | 5075 | 145                                                                                | 21025 | Not allowed                                                                         |
| 12.5                                                                              | 1/2  | 08   | 35                                                                                | 5075 | 145                                                                                | 21025 | Not allowed                                                                         |

## PRODUCT DESCRIPTION

- MQS-NL is Compact Free-Flow quick release couplings
- Simple connection & disconnection by pulling back the sleeve
- Positive quick connection of the male into the female by latching ball system
- ECOAT zinc plating with improved corrosion protection and environmentally friendly process

## MATERIAL

Female & male couplings in high grade carbon steel with hardened areas in correspondence to the most stressed points. Seal in NBR with back-up in PTFE.

## WORKING TEMPERATURE

-30°C to +110°C

## SAFETY FACTOR

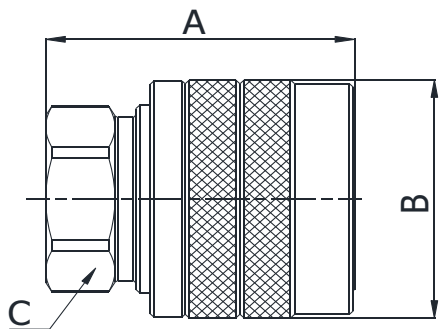
4:1 in CONNECTED & DISCONNECTED conditions

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

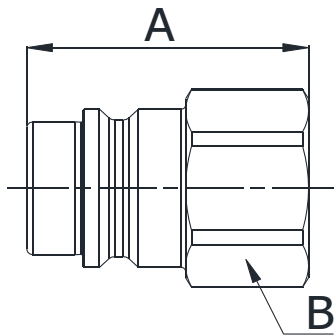
ISO 18869



## Q03811041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |      |    |  |  |  |
|------|------|------|------------------|--------|---------------|------|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B    | C  |  |  |  |
| 6.3  | 1/4" | -04  | Q03811041A-04-04 | 1/4"   | 33.2          | 27.5 | 19 |  |  |  |
| 10   | 3/8" | -06  | Q03811041A-06-06 | 3/8"   | 39.5          | 34.3 | 24 |  |  |  |
| 12.5 | 1/2" | -08  | Q03811041A-08-08 | 1/2"   | 44            | 38.3 | 27 |  |  |  |

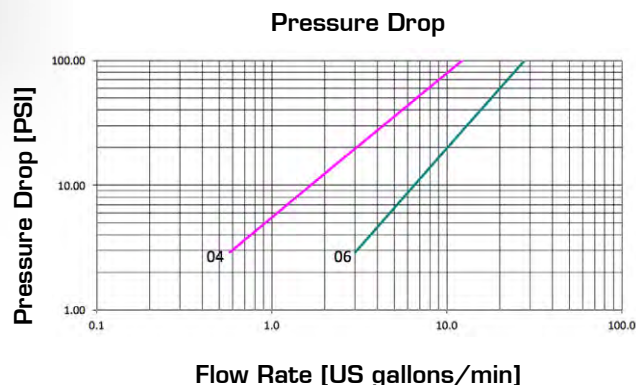
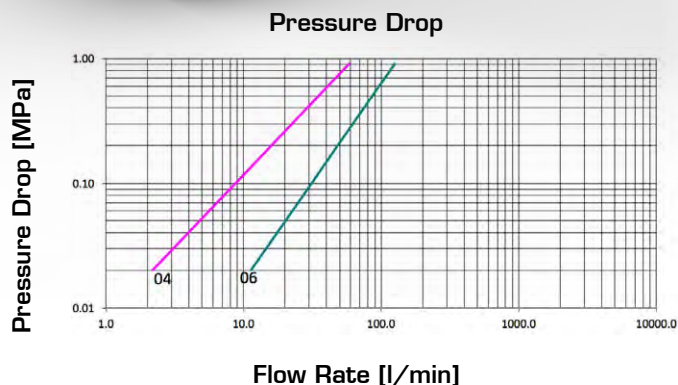
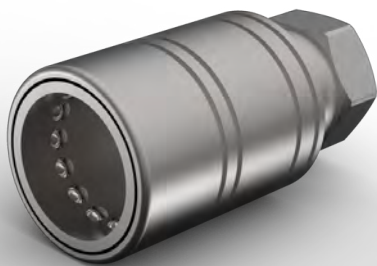


## Q03711041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  |  |  |  |  |
| 6.3  | 1/4" | -04  | Q03710041A-04-04 | 1/4"   | 27.5          | 19 |  |  |  |  |
| 10   | 3/8" | -06  | Q03710041A-06-06 | 3/8"   | 29            | 24 |  |  |  |  |
| 12.5 | 1/2" | -08  | Q03710041A-08-08 | 1/2"   | 34            | 27 |  |  |  |  |

## STANDARD PUSH-PULL



## TECHNICAL DATA

|  |      |      |  |      |  |           |  |     |  |               |  |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>[Dynamic]                                                       |      | RATED FLOW<br>at 0.2 MPa of<br>pressure drop                                        |           | CONNECTION<br>EFFORT                                                                |     | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |               | MINIMUM BURST PRESSURE                                                                |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US<br>GPM | N                                                                                   | lb. | cc.                                                                                 | cubic<br>inch | Male                                                                                  |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |           |                                                                                     |     |                                                                                     |               | MPa                                                                                   | PSI   | MPa   | PSI   |                                                                                       |  |
| 6.3                                                                                 | ¼    | 04   | 35                                                                                  | 5075 | 16                                                                                  | 4.2       | 65                                                                                  | 144 | 0.8                                                                                 | 0.049         | 230                                                                                   | 33350 | 140   | 20300 | Not allowed                                                                           |  |
| 10                                                                                  | ⅜    | 06   | 35                                                                                  | 5075 | 49                                                                                  | 12.9      | 100                                                                                 | 222 | 1.3                                                                                 | 0.079         | 170                                                                                   | 24650 | 150   | 21750 | Not allowed                                                                           |  |
| 12.5                                                                                | ½    | 08   | See ISO A Series                                                                    |      |                                                                                     |           |                                                                                     |     |                                                                                     |               |                                                                                       |       |       |       |                                                                                       |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Female couplings designed for Agriculture applications, interchangeable with male part MQS-N
- Push-Pull connection/disconnection
- Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve)
- Positive connection by latching ball system
- Shut-off by poppet valve

## MATERIAL

Female & male couplings in high grade carbon steel with hardened areas in correspondence to the most stressed points. Seal in NBR with back-up in PTFE.

## WORKING TEMPERATURE

-30°C to +110°C

## SAFETY FACTOR

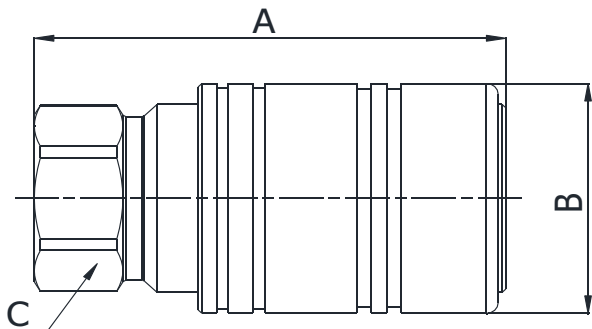
4:1 in CONNECTED & DISCONNECTED conditions

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

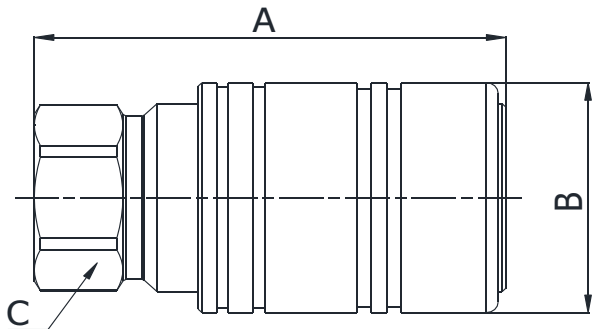
ISO 18869



**Q03611041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | C  |  |  |  |
| 6.3  | 1/4" | -04  | Q03611041A-04-04 | 1/4"   | 53.5          | ø27 | 19 |  |  |  |
| 10   | 3/8" | -06  | Q03611041A-06-06 | 3/8"   | 60.5          | ø33 | 24 |  |  |  |



**Q03611341A**

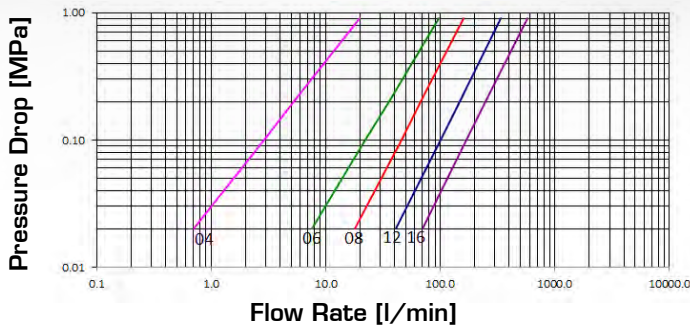
NPT TERMINATION ENDS  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      | THREAD   | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|----------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |          | A             | B   | C  |  |  |  |
| 6.3  | 1/4" | -04  | Q03611341A-04-04 | 1/4"-NPT | 53.5          | ø27 | 19 |  |  |  |
| 10   | 3/8" | -06  | Q03611341A-06-06 | 3/8"-NPT | 60.5          | ø33 | 24 |  |  |  |

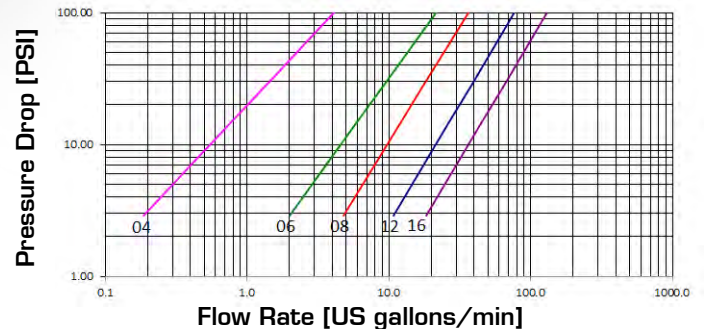


# PUSH-PULL POPPET VALVE

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |           |  |     |  |               |  |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>[Dynamic]                                                       |      | RATED FLOW<br>at 0.2 MPa of<br>pressure drop                                        |           | CONNECTION<br>EFFORT                                                                |     | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |               | MINIMUM BURST PRESSURE                                                                |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US<br>GPM | N                                                                                   | lb. | cc.                                                                                 | cubic<br>inch | Female                                                                                |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |           |                                                                                     |     |                                                                                     |               | MPa                                                                                   | PSI   | MPa   | PSI   |                                                                                       |  |
| 6.3                                                                                 | ¼    | 04   | 35                                                                                  | 5075 | 5                                                                                   | 1.3       | 80                                                                                  | 178 | 0.7                                                                                 | 0.043         | 180                                                                                   | 26100 | 145   | 21025 | Not allowed                                                                           |  |
| 10                                                                                  | ⅜    | 06   | 31.5                                                                                | 4568 | 35                                                                                  | 9.2       | 105                                                                                 | 233 | 1.4                                                                                 | 0.085         | 150                                                                                   | 21750 | 130   | 18850 | Not allowed                                                                           |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 68                                                                                  | 18.0      | 110                                                                                 | 244 | 2                                                                                   | 0.122         | 140                                                                                   | 20300 | 140   | 20300 | Not allowed                                                                           |  |
| 20                                                                                  | ¾    | 12   | 25                                                                                  | 3625 | 147                                                                                 | 38.8      | 165                                                                                 | 367 | 7                                                                                   | 0.427         | 120                                                                                   | 17400 | 110   | 15950 | Not allowed                                                                           |  |
| 25                                                                                  | 1    | 16   | 25                                                                                  | 3625 | 250                                                                                 | 66.1      | 215                                                                                 | 478 | 11                                                                                  | 0.672         | 115                                                                                   | 16675 | 120   | 17400 | Not allowed                                                                           |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Female coupling designed for agriculture applications, connectable with ISO 7241-1 series A male couplings
- PUSH-PULL connection and disconnection system, in case of bulkhead mounting on the external sleeve
- Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve)
- Positive connection by latching balls system
- Shut-off by poppet valve
- High resistant materials
- Dimensions and performances according to ISO 7241 series A

## MATERIAL

Female couplings in steel with some hardened areas, in correspondence to the most stressed points. Carbonitrided valve and sleeve, springs in C98 steel, latching balls in high resistance 100 C6 steel, seals in NBR (other materials on request) and back-up ring in PTFE. PU seal on 1/2" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For other temperatures, the coupling is assembled with specific seals

## SAFETY FACTOR

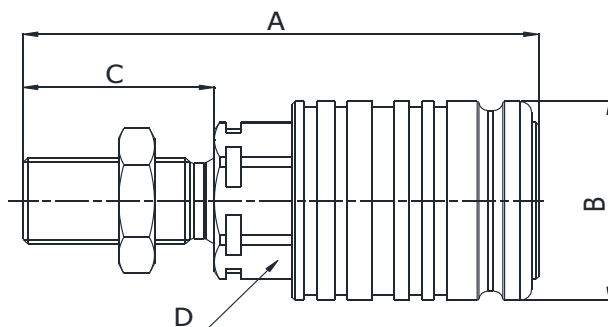
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

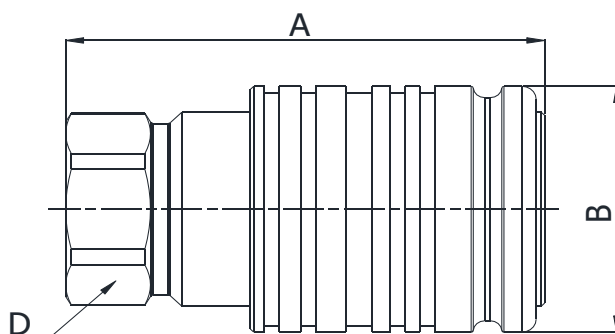
ISO 18869



## Q01311040A

BSP TERMINATION ENDS  
TO ISO 8434-6  
BULKHEAD

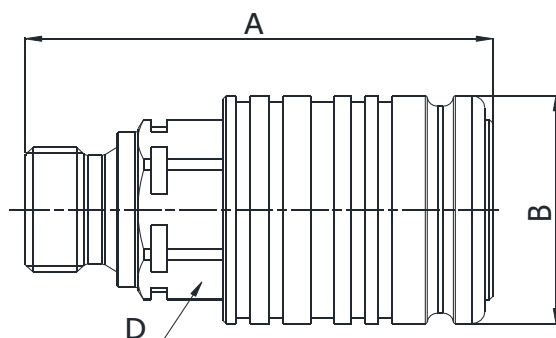
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|--------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | C  | D  |  |  |
| 12.5 | 1/2" | -08  | Q01311040A-08-06 | 3/8"   | 86.2          | ø38 | 32 | 27 |  |  |



## Q01311041A

BSP TERMINATION ENDS  
TO DIN 3852  
X TYPE

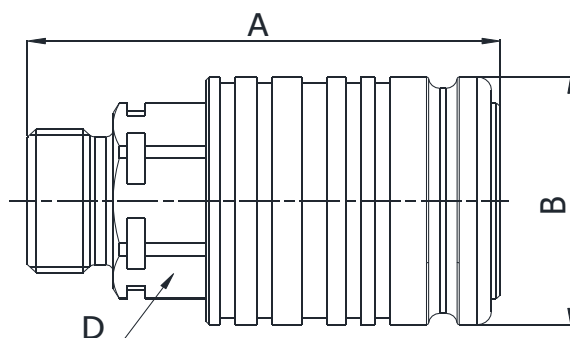
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | D  |  |  |  |
| 6    | 1/4" | -04  | Q01311041A-04-04 | 1/4"   | 58.1          | ø26 | 17 |  |  |  |
| 10   | 3/8" | -06  | Q01311041A-06-04 | 1/4"   | 63            | ø32 | 22 |  |  |  |
| 10   | 3/8" | -06  | Q01311041A-06-06 | 3/8"   | 64.5          | ø32 | 22 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311041A-08-06 | 3/8"   | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311041A-08-08 | 1/2"   | 67            | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311041A-08-12 | 3/4"   | 73.2          | ø38 | 34 |  |  |  |
| 20   | 3/4" | -12  | Q01311041A-12-08 | 1/2"   | 85.7          | ø48 | 34 |  |  |  |
| 20   | 3/4" | -12  | Q01311041A-12-12 | 3/4"   | 87.7          | ø48 | 34 |  |  |  |
| 25   | 1"   | -16  | Q01311041A-16-12 | 3/4"   | 97.9          | ø54 | 41 |  |  |  |
| 25   | 1"   | -16  | Q01311041A-16-16 | 1"     | 97.9          | ø54 | 41 |  |  |  |



## Q01311050A

BSP TERMINATION ENDS  
TO ISO 8434-6

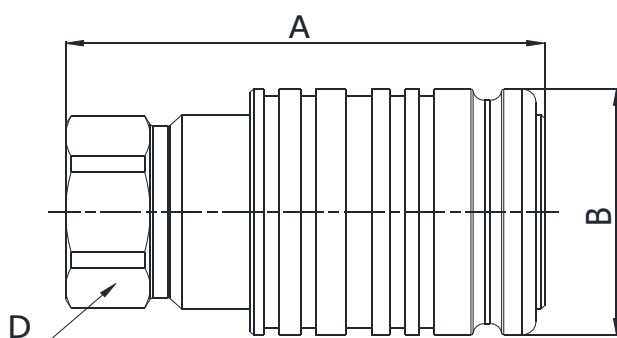
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01311050A-08-06 | 3/8"   | 68.9          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311050A-08-08 | 1/2"   | 71.4          | ø38 | 27 |  |  |  |



## Q01311110A

METRIC TERMINATION ENDS  
TO ISO 8434-1  
L SERIES

| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | D  |  |  |  |
| 10   | 3/8" | -06  | Q01311110A-06-12 | M12x1,5 | 61            | ø32 | 22 |  |  |  |
| 10   | 3/8" | -06  | Q01311110A-06-14 | M14x1,5 | 61            | ø32 | 22 |  |  |  |
| 10   | 3/8" | -06  | Q01311110A-06-16 | M16x1,5 | 61            | ø32 | 22 |  |  |  |
| 10   | 3/8" | -06  | Q01311110A-06-18 | M18x1,5 | 61            | ø32 | 22 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311110A-08-12 | M12x1,5 | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311110A-08-14 | M14x1,5 | 65.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311110A-08-16 | M16x1,5 | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311110A-08-18 | M18x1,5 | 65.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311110A-08-22 | M22x1,5 | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311110A-08-26 | M26x1,5 | 66.2          | ø38 | 30 |  |  |  |
| 20   | 3/4" | -12  | Q01311110A-12-22 | M22x1,5 | 85.7          | ø48 | 34 |  |  |  |
| 20   | 3/4" | -12  | Q01311110A-12-26 | M26x1,5 | 85.7          | ø48 | 34 |  |  |  |
| 20   | 3/4" | -12  | Q01311110A-12-30 | M30x2   | 87.7          | ø48 | 34 |  |  |  |
| 25   | 1"   | -16  | Q01311110A-16-26 | M26x1,5 | 94.5          | ø54 | 41 |  |  |  |
| 25   | 1"   | -16  | Q01311110A-16-30 | M30x2   | 96.5          | ø54 | 41 |  |  |  |
| 25   | 1"   | -16  | Q01311110A-16-36 | M36x2   | 96.5          | ø54 | 41 |  |  |  |

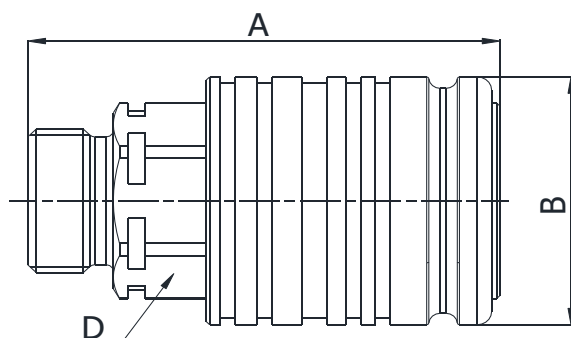


## Q01311141A

METRIC TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | D  |  |  |  |
| 10   | 3/8" | -06  | Q01311141A-06-16 | M16x1,5 | 64.5          | ø32 | 22 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311141A-08-18 | M18x1,5 | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311141A-08-20 | M20x1,5 | 67            | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311141A-08-22 | M22x1,5 | 67            | ø38 | 27 |  |  |  |
| 20   | 3/4" | -12  | Q01311141A-12-22 | M22x1,5 | 84.7          | ø48 | 34 |  |  |  |

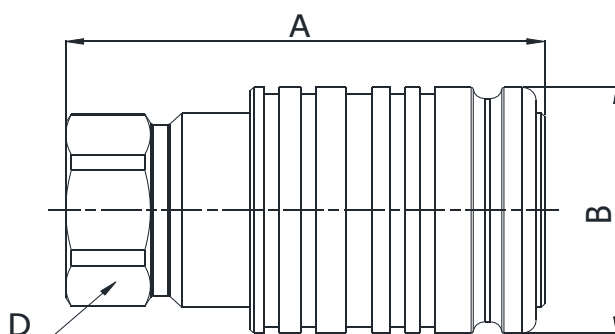




## Q0131120A

METRIC TERMINATION ENDS  
TO ISO 8434-1  
S SERIES

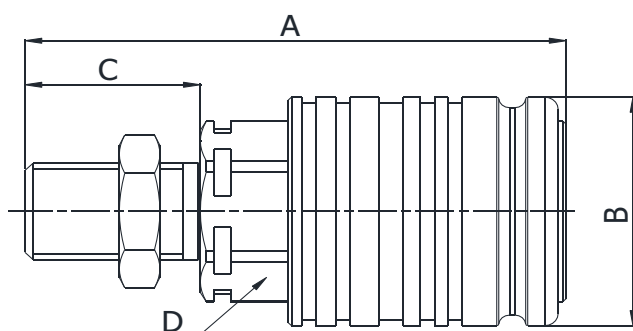
| SIZE |      |      | PART NUMBER     | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|-----------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                 |         | A             | B   | D  |  |  |  |
| 10   | 3/8" | -06  | Q0131120A-06-16 | M16x1,5 | 62            | ø32 | 22 |  |  |  |
| 10   | 3/8" | -06  | Q0131120A-06-18 | M18x1,5 | 62            | ø32 | 22 |  |  |  |
| 12.5 | 1/2" | -08  | Q0131120A-08-18 | M18x1,5 | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q0131120A-08-20 | M20x1,5 | 66.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q0131120A-08-24 | M24x1,5 | 68.2          | ø38 | 27 |  |  |  |
| 25   | 1"   | -16  | Q0131120A-16-30 | M30x2   | 98.5          | ø54 | 41 |  |  |  |
| 25   | 1"   | -16  | Q0131120A-16-36 | M36x2   | 100.5         | ø54 | 41 |  |  |  |
| 25   | 1"   | -16  | Q0131120A-16-42 | M40x2   | 102.5         | ø54 | 46 |  |  |  |



## Q0131191A

METRIC TERMINATION ENDS  
TO DIN 3852 X TYPE

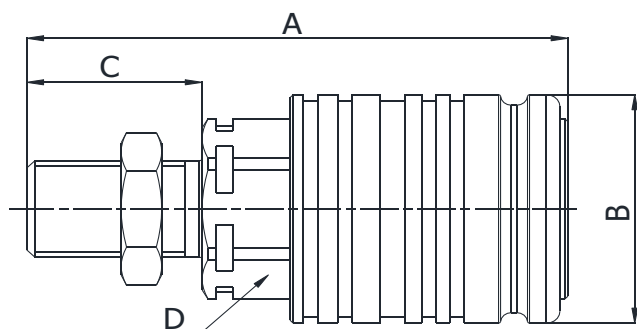
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q0131191A-08-16* | M16x1,5 | 66.7          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q0131191A-08-18* | M18x1,5 | 68.2          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q0131191A-08-22  | M22x1,5 | 67            | ø38 | 27 |  |  |  |



## Q01311770A

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

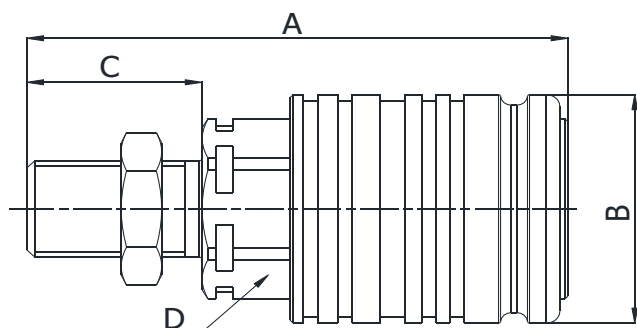
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|---------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | C  | D  |  |  |
| 12.5 | 1/2" | -08  | Q01311770A-08-18 | M18x1,5 | 90.2          | ø38 | 36 | 27 |  |  |



## Q01311770B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

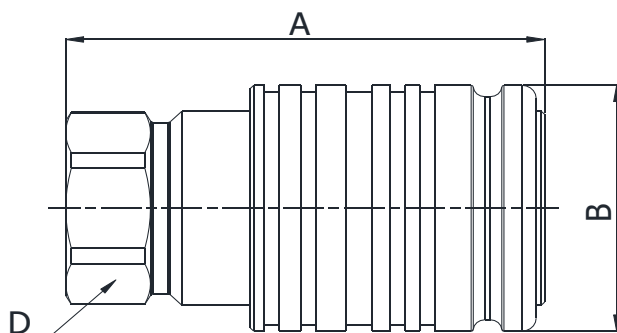
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|---------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | C  | D  |  |  |
| 10   | 3/8" | -06  | Q01311770B-06-12 | M12x1,5 | 76            | ø32 | 25 | 22 |  |  |
| 10   | 3/8" | -06  | Q01311770B-06-14 | M14x1,5 | 75            | ø32 | 25 | 22 |  |  |
| 10   | 3/8" | -06  | Q01311770B-06-16 | M16x1,5 | 75            | ø32 | 26 | 22 |  |  |
| 10   | 3/8" | -06  | Q01311770B-06-18 | M18x1,5 | 75            | ø32 | 26 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q01311770B-08-14 | M14x1,5 | 80.2          | ø38 | 25 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311770B-08-16 | M16x1,5 | 80.2          | ø38 | 26 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311770B-08-18 | M18x1,5 | 80.2          | ø38 | 26 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311770B-08-22 | M22x1,5 | 81.2          | ø38 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311770B-08-26 | M26x1,5 | 82.2          | ø38 | 28 | 30 |  |  |
| 20   | 3/4" | -12  | Q01311770B-12-22 | M22x1.5 | 100.7         | ø48 | 27 | 34 |  |  |
| 20   | 3/4" | -12  | Q01311770B-12-26 | M26x1.5 | 101.7         | ø48 | 28 | 34 |  |  |
| 20   | 3/4" | -12  | Q01311770B-12-30 | M30x2   | 105.7         | ø48 | 32 | 34 |  |  |
| 25   | 1"   | -16  | Q01311770B-16-30 | M30x2   | 114.5         | ø54 | 32 | 41 |  |  |



## Q01311870B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD S SERIES

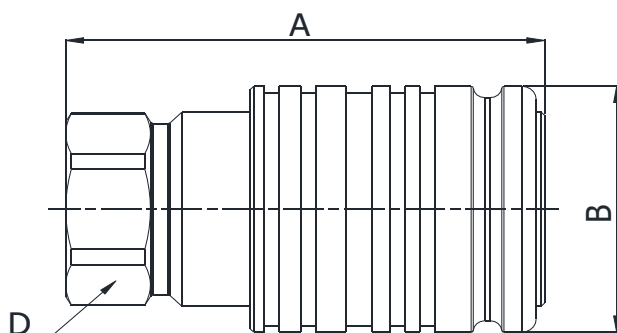
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|---------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | C  | D  |  |  |
| 10   | 3/8" | -06  | Q01311870B-06-16 | M16x1,5 | 76            | ø32 | 27 | 22 |  |  |
| 10   | 3/8" | -06  | Q01311870B-06-18 | M18x1,5 | 76            | ø32 | 27 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q01311870B-08-18 | M18x1,5 | 81.2          | ø38 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311870B-08-20 | M20x1,5 | 81.2          | ø38 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311870B-08-24 | M24x1,5 | 83.2          | ø38 | 29 | 27 |  |  |
| 20   | 3/4" | -12  | Q01311870B-12-30 | M30x2   | 107.7         | ø48 | 34 | 34 |  |  |
| 25   | 1"   | -16  | Q01311870B-16-36 | M36x2   | 118.5         | ø54 | 36 | 41 |  |  |



## Q01311341A

NPT TERMINATION END  
TO ANSI B 1.20.3 STANDARD

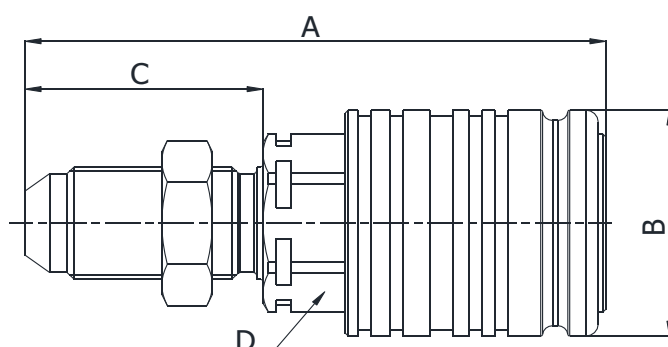
| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-----------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |           | A             | B   | D  |  |  |  |
| 6    | 1/4" | -04  | Q01311341A-04-04 | 1/4" NPTF | 58            | ø26 | 17 |  |  |  |
| 10   | 3/8" | -06  | Q01311341A-06-06 | 3/8" NPTF | 64.5          | ø32 | 22 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311341A-08-08 | 1/2" NPTF | 67            | ø38 | 27 |  |  |  |
| 20   | 3/4" | -12  | Q01311341A-16-12 | 3/4" NPTF | 97.9          | ø54 | 41 |  |  |  |
| 25   | 1"   | -16  | Q01311341A-16-16 | 1" NPTF   | 97.9          | ø54 | 41 |  |  |  |



## Q01311301A

SAE TERMINATION ENDS  
TO SAE J1926-1

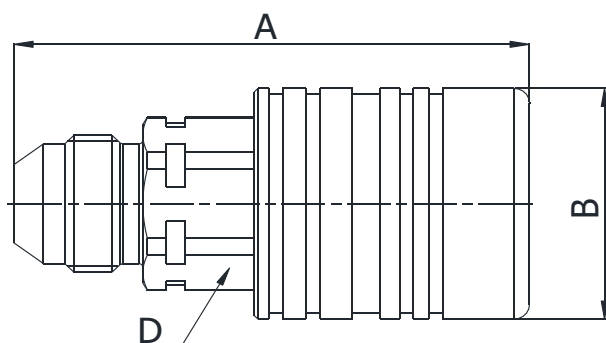
| SIZE |      |      | PART NUMBER       | THREAD       | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|-------------------|--------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                   |              | A             | B   | D  |  |  |  |
| 10   | 3/8" | -06  | Q01311301A-06-06* | 9/16"-18 UNF | 64.5          | ø32 | 22 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311301A-08-08  | 3/4"-16 UNF  | 67            | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q01311301A-08-10  | 7/8"-14 UNF  | 69            | ø38 | 27 |  |  |  |



## Q01311230A

SAE TERMINATION END  
TO ISO 8434-2  
BULKHEAD

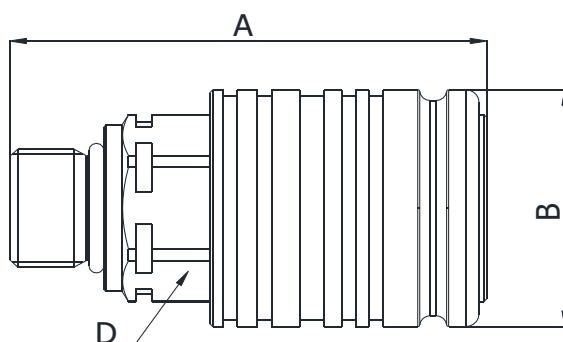
| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |      |    |  |  |
|------|------|------|------------------|-------------|---------------|-----|------|----|--|--|
| DN   | Inch | Dash |                  |             | A             | B   | C    | D  |  |  |
| 12.5 | 1/2" | -08  | Q01311230A-08-08 | 3/4"-16 UNF | 91.8          | ø38 | 37.6 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q01311230A-08-10 | 7/8"-14 UNF | 95.3          | ø38 | 41.1 | 27 |  |  |



## Q01311250A

SAE TERMINATION END  
TO ISO 8434-2

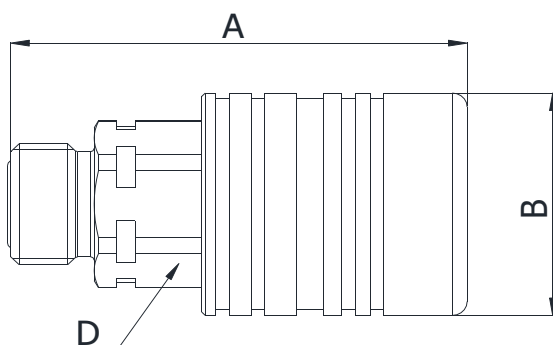
| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|
| DN   | Inch | Dash | Female coupling  |             | A             | B   | D  |  |  |
| 10   | 3/8" | -06  | Q01311250A-06-08 | 3/4"-16 UNF | 66.7          | ø32 | 22 |  |  |



## Q01311320A

ORB TERMINATION ENDS  
TO SAE J1926-2  
S SERIES

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|
| DN   | Inch | Dash | Female coupling  |             | A             | B   | D  |  |  |
| 12.5 | 1/2" | -08  | Q01311320A-08-08 | 3/4"-16 UNF | 68.2          | ø38 | 27 |  |  |



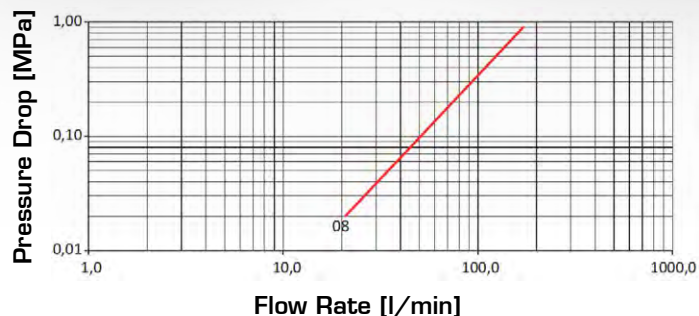
## Q01311240A

ORFS TERMINATION ENDS  
TO ISO 8434-3

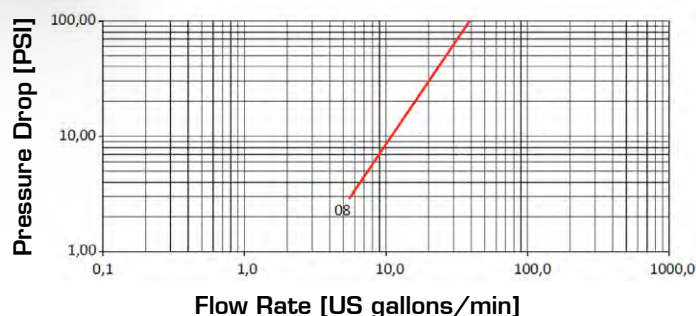
| SIZE |      |      | PART NUMBER      | THREAD        | DIMENSIONS mm |     |    |  |  |
|------|------|------|------------------|---------------|---------------|-----|----|--|--|
| DN   | Inch | Dash | Female coupling  |               | A             | B   | D  |  |  |
| 10   | 3/8" | -06  | Q01311240A-06-04 | 9/16"-18 UN   | 60.8          | ø32 | 22 |  |  |
| 10   | 3/8" | -06  | Q01311240A-06-06 | 11/16"-16 UN  | 61.2          | ø32 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q01311240A-08-08 | 13/16"-16 UN  | 66.2          | ø38 | 27 |  |  |
| 25   | 1"   | -16  | Q01311240A-16-16 | 1.7/16"-12 UN | 100           | ø54 | 41 |  |  |



Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |      |      | MPa |      | FLOW RATE |        | N   |     | OIL SPILLAGE |                     | MINIMUM BURST PRESSURE |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE |  |
|------|------|------|-----|------|-----------|--------|-----|-----|--------------|---------------------|------------------------|-------|-------|-------|------------------------------------------|--|
| DN   | inch | Dash | MPa | PSI  | l/min     | US GPM | N   | lb. | cc.          | cubic inch          | Female                 |       | M & F |       |                                          |  |
|      |      |      |     |      |           |        |     |     |              |                     | MPa                    | PSI   | MPa   | PSI   |                                          |  |
| 12.5 | ½    | 08   | 30  | 4350 | 68        | 18.0   | 110 | 244 | 2            | 0.122               | 120                    | 17400 | 140   | 20300 | Connection only                          |  |
|      |      |      |     |      |           |        |     |     |              | With 0 MPa pressure |                        |       |       |       |                                          |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Female coupling designed for agriculture applications, connectable with ISO 7241-1 series A male couplings
- Connectable under pressure thanks to a frontal micro-valve
- Push-Pull connection and disconnection system, in case of bulkhead mounting on the external sleeve
- Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve)
- Positive connection by latching balls system
- Shut-off by poppet valve
- High resistant materials
- Dimensions and performances according to ISO 7241 series A

## MATERIAL

Female couplings in steel with some hardened areas, in correspondence to the most stressed points. Carbonitrided valve, micro-valve and sleeve, springs in C98 steel, latching balls in 100 C6 steel, seals in NBR and polyurethane (other materials on request) and back-up ring in PTFE. PU seal on ½" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the quick coupling is assembled with specific seals

## SAFETY FACTOR

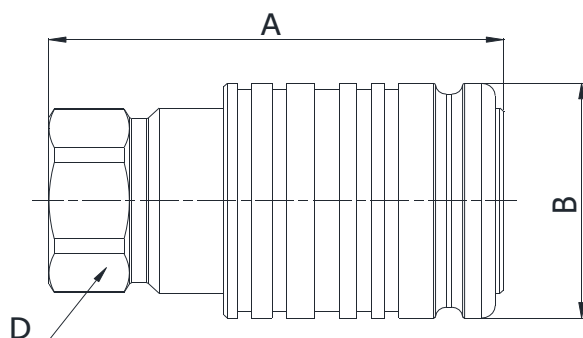
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles of impulse pressure at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

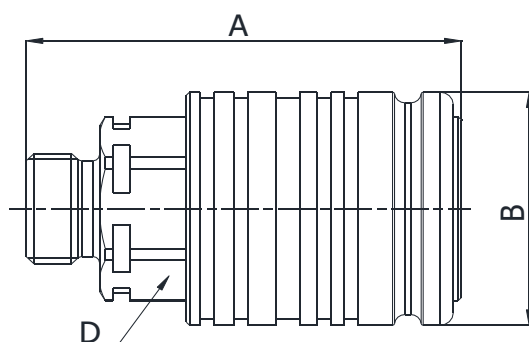
ISO 18869



## Q01511041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

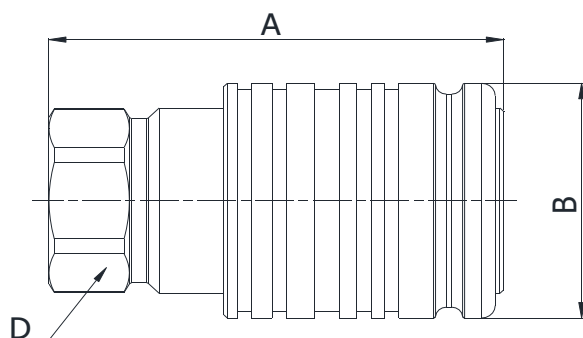
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01511041A-08-08 | 1/2"   | 67            | ø38 | 27 |  |  |  |



## Q01511110A

METRIC TERMINATION END  
TO ISO 8434-1  
L SERIES

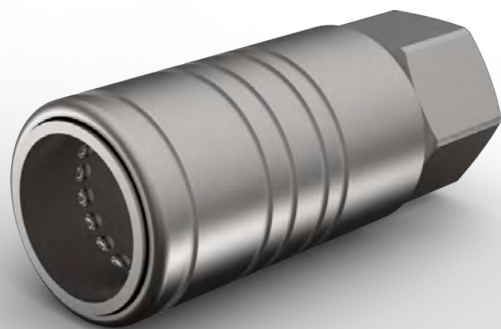
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01511110A-08-18 | M18x1,5 | 65.2          | ø38 | 27 |  |  |  |



## Q01511341A

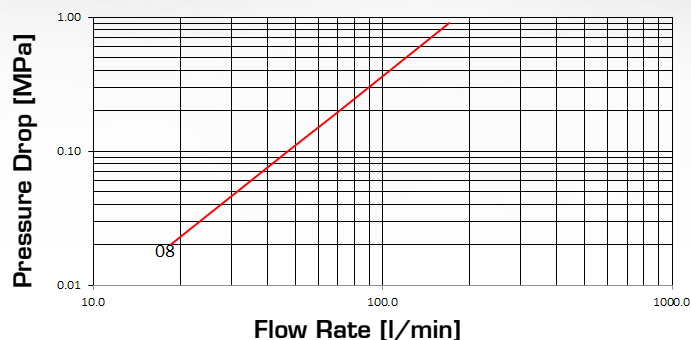
NPT TERMINATION END  
TO ANSI B 1.20.3 STANDARD

| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-----------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |           | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01511341A-08-08 | 1/2" NPTF | 67            | ø38 | 27 |  |  |  |

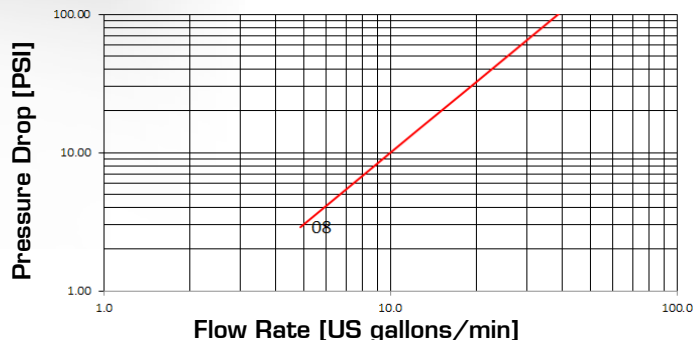


## PUSH-PULL FEMALE CONNECTABLE WITH MALE UNDER PRESSURE

Pressure Drop



Pressure Drop



### TECHNICAL DATA

|  |      |      |  |      |  |        |  |     |  |            |  |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE (Dynamic)                                                          |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch | Female                                                                                |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |            | MPa                                                                                   | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 71                                                                                  | 18.8   | 170                                                                                 | 378 | 2                                                                                   | 0.122      | 125                                                                                   | 18125 | 125   | 18125 | Connection only, with male under pressure                                             |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Connectable with male ISO A under pressure
- Working pressure 30MPa
- Connection/disconnection PUSH-PULL
- No shut-off, Manuli mechanical valve block system
- Installation on hoses with coupling blocked on panel by the sleeve
- Breakaway function according to ISO 5675
- Interchangeable according to ISO 7241 series A
- Wide range of termination end

### MATERIAL

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in NBR, back-up ring PTFE. PU seal on 1/2" female available on request.

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the quick coupling is assembled with specific seals

### SAFETY FACTOR

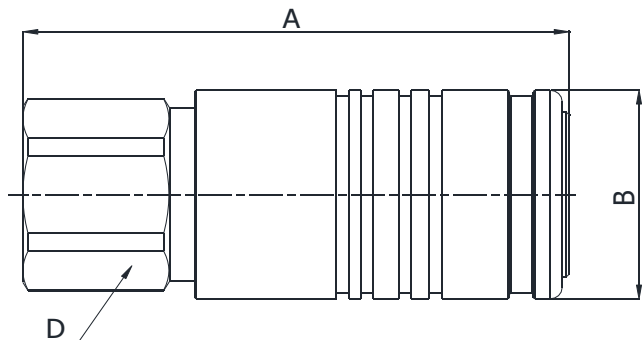
4:1 for dynamic pressures

### IMPULSE PRESSURES

500,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

### TEST SPECIFICATIONS

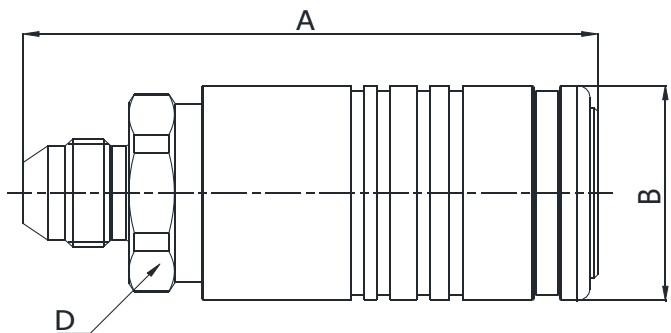
ISO 18869



## Q01611041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01611041A-08-08 | 1/2"   | 91.2          | ø38 | 32 |  |  |  |

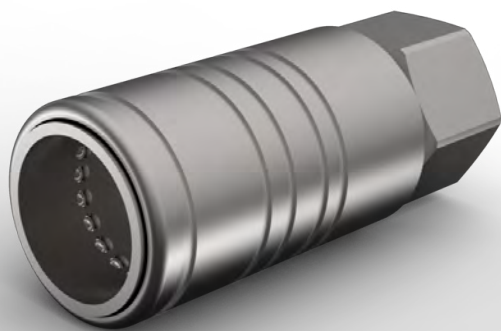


## Q01611250A

SAE TERMINATION ENDS  
TO ISO 8434-2

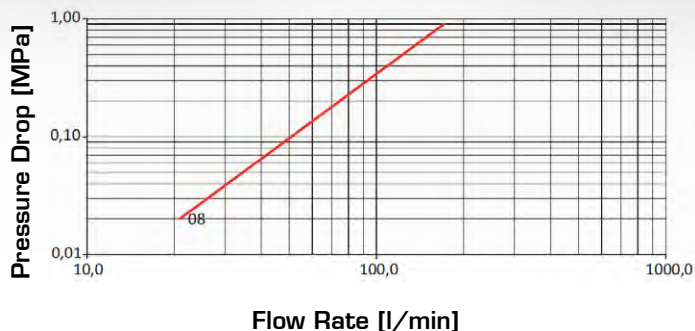
| SIZE |      |      | PART NUMBER      | THREAD       | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |              | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01611250A-08-08 | 3/4"- 16 UNF | 90.7          | ø38 | 32 |  |  |  |



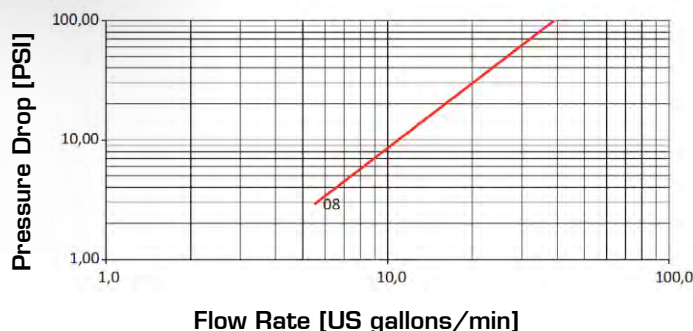


## PUSH-PULL FEMALE BOTH PARTS CONNECTABLE UNDER PRESSURE

Pressure Drop



Pressure Drop



### TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE (Dynamic) |      | RATED FLOW at 0.2 MPa of pressure drop |        | CONNECTION EFFORT |     | OIL SPILLAGE Connection/Disconnection |                        | MINIMUM BURST PRESSURE |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE             |
|------|------|------|----------------------------|------|----------------------------------------|--------|-------------------|-----|---------------------------------------|------------------------|------------------------|-------|-------|-------|------------------------------------------------------|
| DN   | inch | Dash | MPa                        | PSI  | l/min                                  | US GPM | N                 | lb. | cc.                                   | cubic inch             | Female                 |       | M & F |       |                                                      |
|      |      |      |                            |      |                                        |        |                   |     |                                       |                        | MPa                    | PSI   | MPa   | PSI   |                                                      |
| 12.5 | ½    | 08   | 30                         | 4350 | 71                                     | 18.8   | 170               | 378 | 2                                     | 0.122                  | 125                    | 18125 | 125   | 18125 | Connection only, with male and female under pressure |
|      |      |      |                            |      |                                        |        |                   |     |                                       | With 0 MPa of pressure |                        |       |       |       |                                                      |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Connectable with male ISO A and female under pressure
- Working pressure 30MPa
- Connection/disconnection PUSH-PULL
- No shut-off, Manuli mechanical valve block system
- Installation on hoses with coupling blocked on panel by the sleeve
- Breakaway function according to ISO 5675
- Interchangeable according to ISO 7241 series A
- Wide range of termination ends

### MATERIAL

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in polyurethane and NBR, back-up ring PTFE. PU seal on ½" female available on request.

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the quick coupling is assembled with specific seals

### SAFETY FACTOR

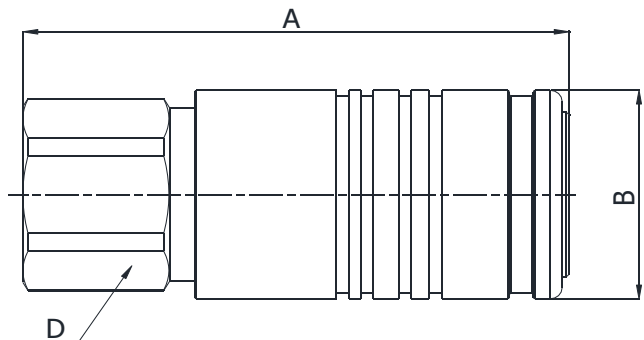
4:1 for dynamic pressures

### IMPULSE PRESSURES

500,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

### TEST SPECIFICATIONS

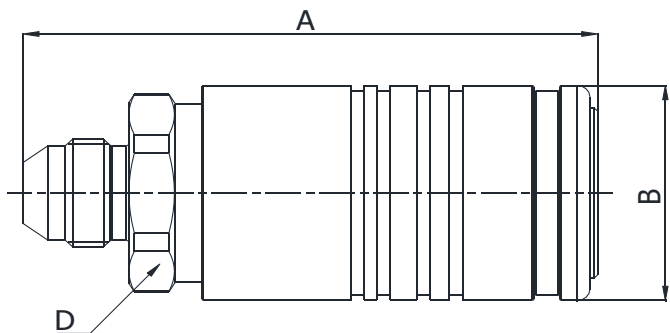
ISO 18869



## Q01711041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

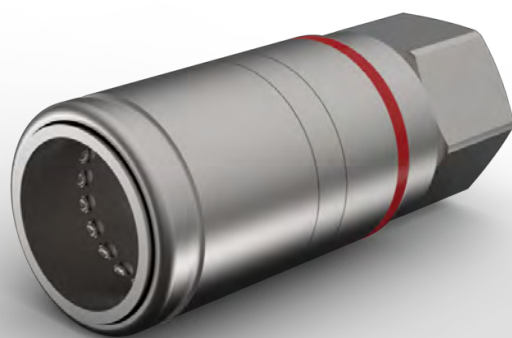
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01711041A-08-08 | 1/2"   | 91.2          | ø38 | 32 |  |  |  |



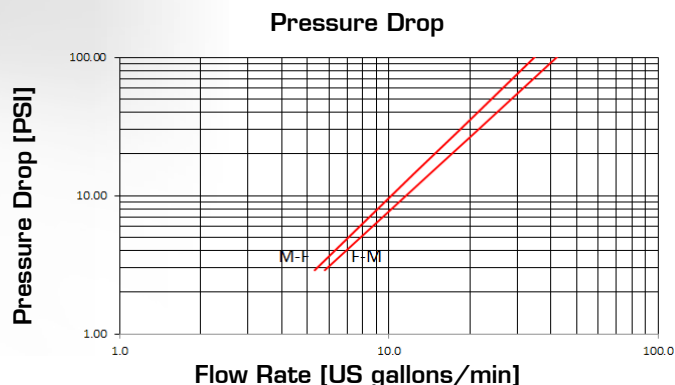
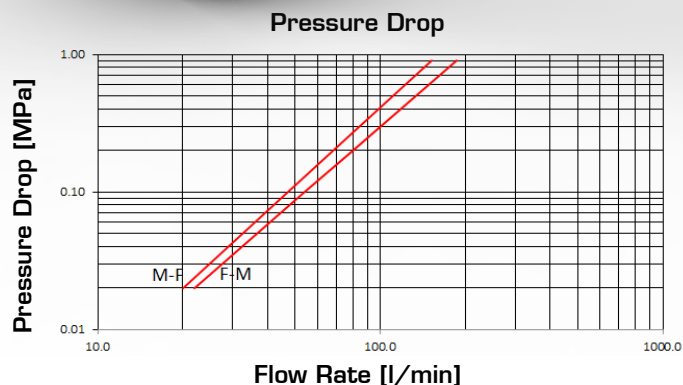
## Q01711250A

SAE TERMINATION ENDS  
TO ISO 8434-2

| SIZE |      |      | PART NUMBER      | THREAD       | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |              | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01711250A-08-08 | 3/4"- 16 UNF | 90.7          | ø38 | 32 |  |  |  |



# PUSH-PULL FEMALE CONNECTABLE WITH MALE UNDER PRESSURE



## TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop |       |        | CONNECTION EFFORT |     | OIL SPILLAGE Connection/ Disconnection |            | MINIMUM BURST PRESSURE |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE  |
|------|------|------|----------------------------|------|----------------------------------------|-------|--------|-------------------|-----|----------------------------------------|------------|------------------------|-------|-------|-------|-------------------------------------------|
| DN   | inch | Dash | MPa                        | PSI  | Flow direction                         | l/min | US GPM | N                 | lb. | cc.                                    | cubic inch | Male                   |       | M & F |       |                                           |
|      |      |      |                            |      |                                        |       |        |                   |     |                                        |            | MPa                    | PSI   | MPa   | PSI   |                                           |
| 12.5 | ½    | 08   | 30                         | 4350 | F → M                                  | 80    | 21.1   | 230               | 511 | 2                                      | 0.122      | 125                    | 18125 | 125   | 18125 | Connection only, with male under pressure |
|      |      |      |                            |      | M → F                                  | 68    | 18.0   |                   |     |                                        |            |                        |       |       |       |                                           |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Connectable with male ISO A under pressure
- Working pressure 30MPa
- Connection/disconnection PUSH-PULL
- No shut-off, Manuli mechanical valve block system
- Installation on pipe and ports
- Breakaway function according to ISO 5675
- Interchangeable according to ISO 7241 series A
- Wide range of termination ends
- According to all requirements of ISO 5675

## MATERIAL

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in NBR, back-up ring PTFE. PU seal on ½" female available on request.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the quick coupling is assembled with specific seals

## SAFETY FACTOR

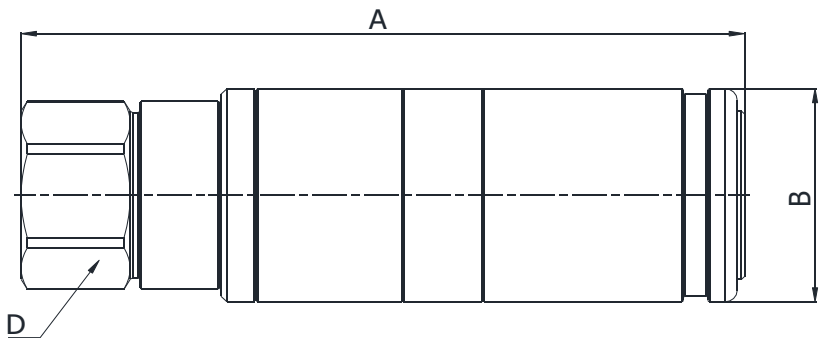
4:1 for dynamic pressures

## IMPULSE PRESSURES

500,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

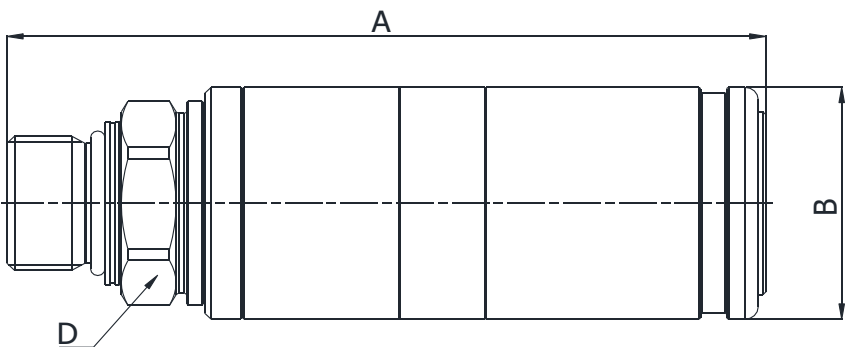
ISO 18869



## Q01811041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

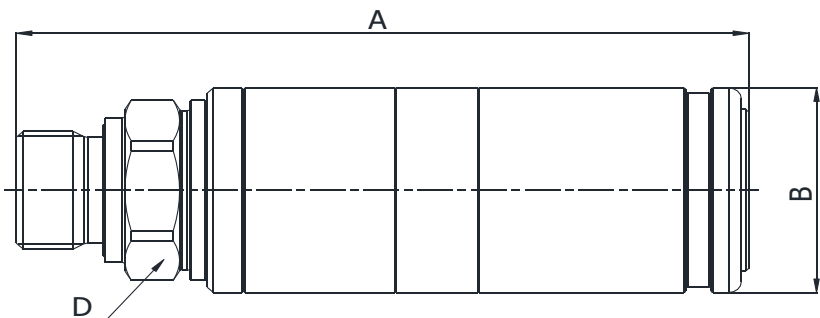
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |        | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01811041A-08-08 | 1/2"   | 118.4         | ø38 | 30 |  |  |  |



## Q01811190A

METRIC TERMINATION ENDS  
TO ISO 6149-2

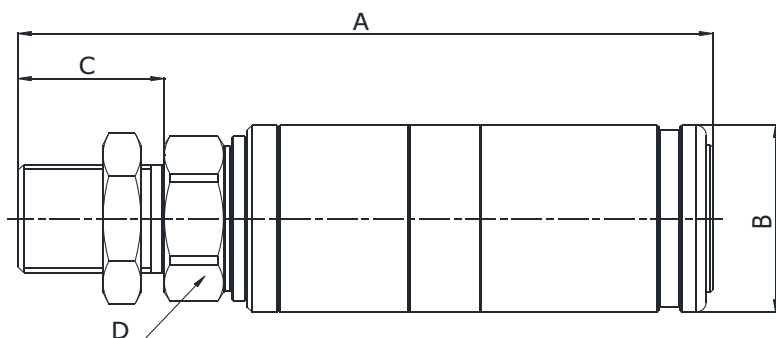
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01811190A-08-22 | M22x1,5 | 115.9         | ø38 | 30 |  |  |  |



## Q01811140A

METRIC TERMINATION ENDS  
TO ISO 9974-2

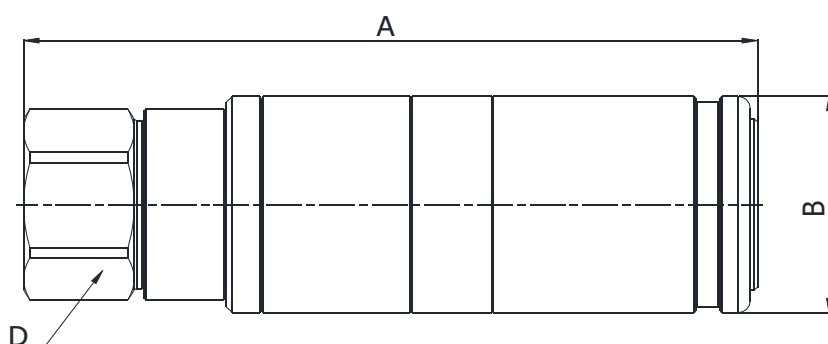
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01811140A-08-22 | M22x1,5 | 115.9         | ø38 | 30 |  |  |  |



## Q01811770B

METRIC TERMINATION ENDS  
ISO 8434-1 L SERIES BULKHEAD

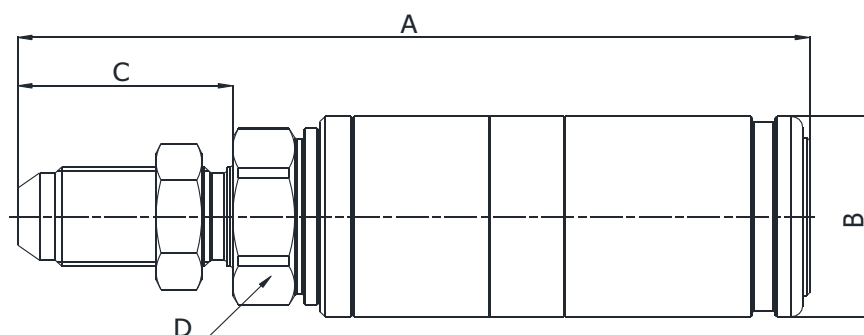
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|---------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash |                  |         | A             | B   | C  | D  |  |  |
| 12.5 | 1/2" | -08  | Q01811770B-08-22 | M22x1,5 | 127.9         | ø38 | 27 | 30 |  |  |



## Q01811341A

NPT TERMINATION ENDS  
TO ANSI B 1.20.3

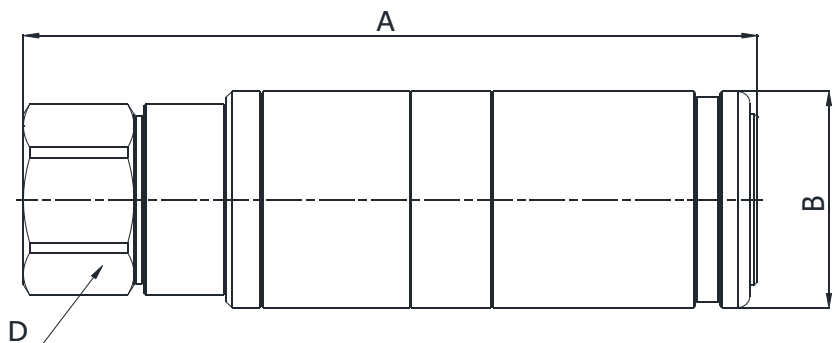
| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-----------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |           | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01811341A-08-08 | 1/2" NPTF | 118.4         | ø38 | 30 |  |  |  |



## Q01811230A

SAE TERMINATION ENDS  
ISO 8434-2 BULKHEAD

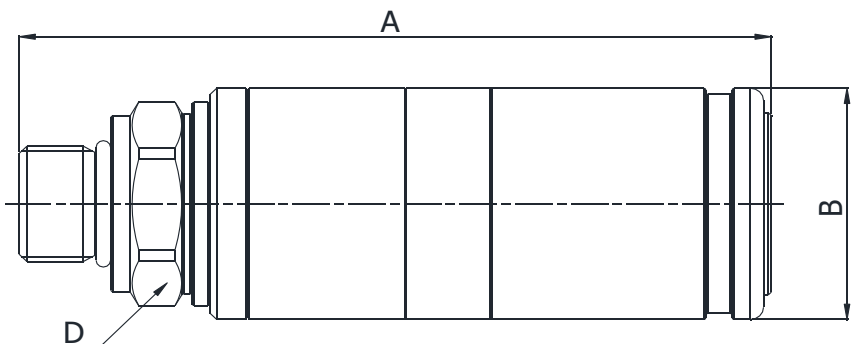
| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |      |    |  |  |
|------|------|------|------------------|-------------|---------------|-----|------|----|--|--|
| DN   | Inch | Dash |                  |             | A             | B   | C    | D  |  |  |
| 12.5 | 1/2" | -08  | Q01811230A-08-08 | 3/4"-16 UNF | 138.5         | ø38 | 37.6 | 30 |  |  |
| 12.5 | 1/2" | -08  | Q01811230A-08-10 | 7/8"-14UNF  | 142           | ø38 | 40.1 | 30 |  |  |



**Q01811301A**

SAE TERMINATION ENDS  
TO SAE J1926-1

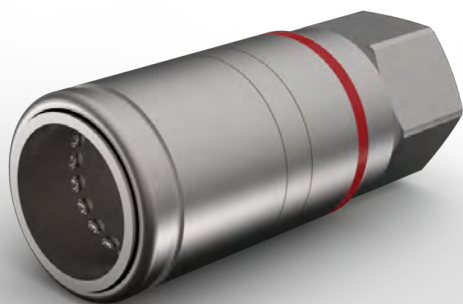
| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |             | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01811301A-08-08 | 3/4"-16 UNF | 117.4         | ø38 | 30 |  |  |  |



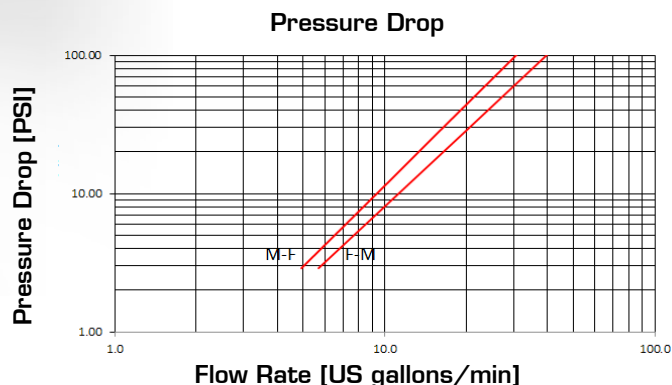
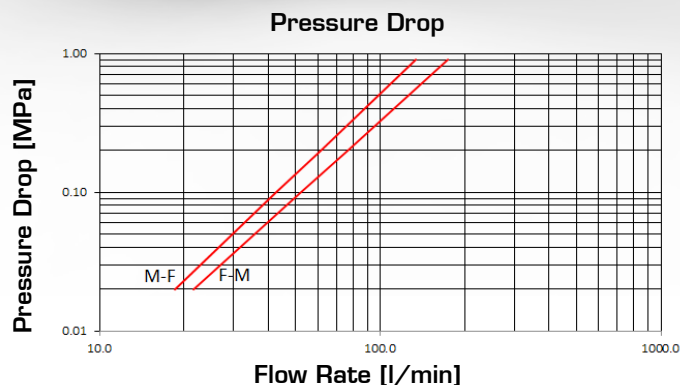
**Q01811320A**

ORB TERMINATION ENDS  
TO SAE J1926-2 S SERIES

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |             | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01811320A-08-08 | 3/4"-16 UNF | 115           | ø38 | 30 |  |  |  |
| 12.5 | 1/2" | -08  | Q01811320A-08-10 | 7/8"-14UNF  | 117           | ø38 | 30 |  |  |  |



## PUSH-PULL FEMALE CONNECTABLE WITH BOTH PARTS UNDER PRESSURE



### TECHNICAL DATA

|  |      |      |  |      |  |       |        |  |     |  |            |  |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>[Dynamic]                                                       |      | RATED FLOW<br>at 0.2 MPa of pressure drop                                           |       |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |            | MINIMUM BURST PRESSURE                                                                |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | Flow direction                                                                      | l/min | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch | Male                                                                                  |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |       |        |                                                                                     |     |                                                                                     |            | MPa                                                                                   | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | F → M                                                                               | 80    | 21.1   | 230                                                                                 | 511 | 2.5                                                                                 | 0.153      | 125                                                                                   | 18125 | 125   | 18125 | Connection only, with male & female under pressure                                    |  |
|                                                                                     |      |      |                                                                                     |      | M → F                                                                               | 68    | 18.0   |                                                                                     |     | With OMPa of pressure                                                               |            |                                                                                       |       |       |       |                                                                                       |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Connectable with male ISO A and female under pressure
- Working pressure 30MPa
- Connection/disconnection PUSH-PULL
- No shut-off, Manuli mechanical valve block system
- Installation on pipe and ports
- Breakaway function according to ISO 5675
- Interchangeable according to ISO 7241 series A
- Wide range of termination ends
- According to all requirements of ISO 5675

### MATERIAL

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in polyurethane and NBR, back-up ring PTFE. PU seal on ½" female available on request.

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the quick coupling is assembled with specific seals

### SAFETY FACTOR

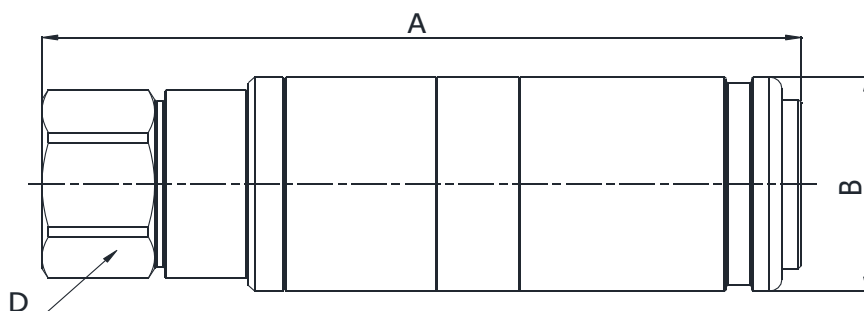
4:1 for dynamic pressures

### IMPULSE PRESSURES

500,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

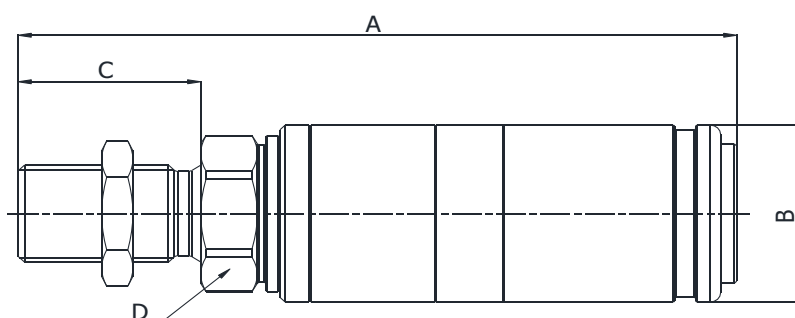
### TEST SPECIFICATIONS

ISO 18869

**Q01911041A**

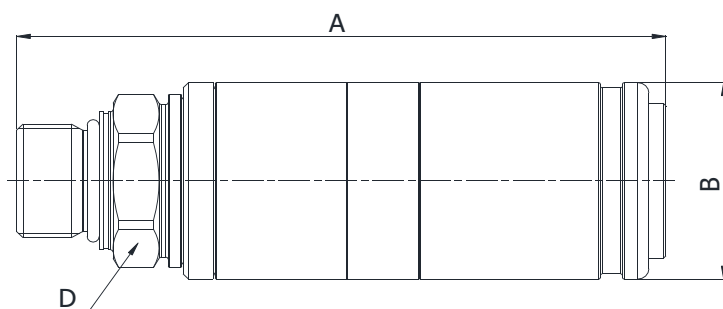
BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911041A-08-08 | 1/2"   | 120.3         | ø38 | 30 |  |  |  |

**Q01911040A**

BSP TERMINATION ENDS  
TO ISO 8434-6  
BULKHEAD

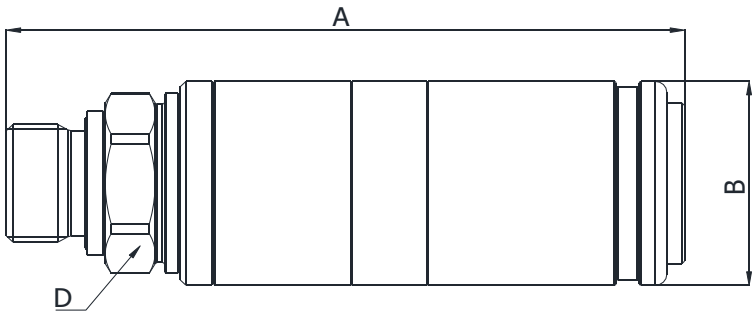
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|--------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | C  | D  |  |  |
| 12.5 | 1/2" | -08  | Q01911040A-08-08 | 1/2"   | 137.8         | ø38 | 35 | 30 |  |  |

**Q01911190A**

METRIC TERMINATION ENDS  
TO ISO 6149-2

| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911190A-08-22 | M22x1,5 | 117.8         | ø38 | 30 |  |  |  |

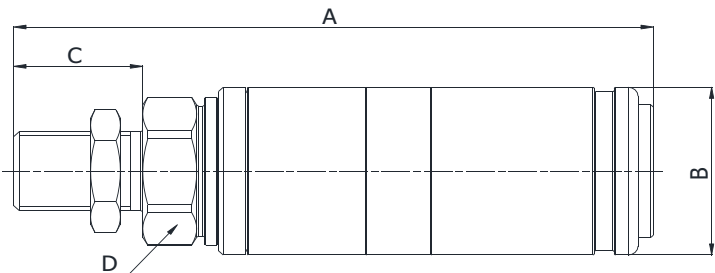




**Q01911140A**

METRIC TERMINATION ENDS  
TO ISO 9974-2

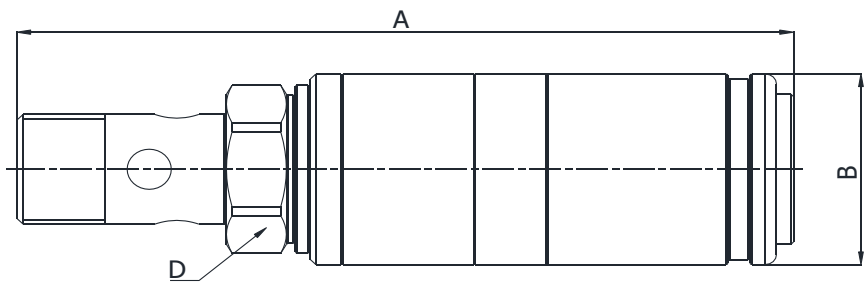
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911140A-08-22 | M22x1,5 | 117.8         | ø38 | 30 |  |  |  |



**Q01911770B**

METRIC TERMINATION ENDS  
ISO 8434-1 L SERIES BULKHEAD

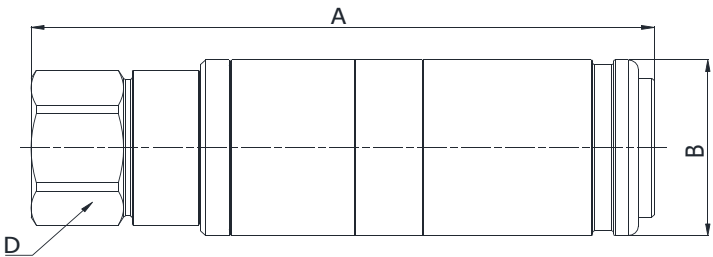
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|---------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | C  | D  |  |  |
| 12.5 | 1/2" | -08  | Q01911770B-08-18 | M18x1,5 | 128.8         | ø38 | 26 | 30 |  |  |
| 12.5 | 1/2" | -08  | Q01911770B-08-22 | M22x1,5 | 129.8         | ø38 | 27 | 30 |  |  |



**Q01911080A**

METRIC TERMINATION ENDS  
DIN 7643

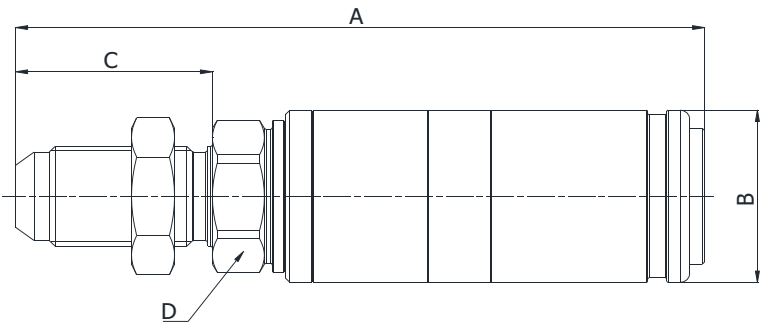
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911080A-08-22 | M22x1,5 | 140.8         | ø38 | 30 |  |  |  |



**Q01911341A**

NPT TERMINATION ENDS  
TO ANSI B 1.20.3

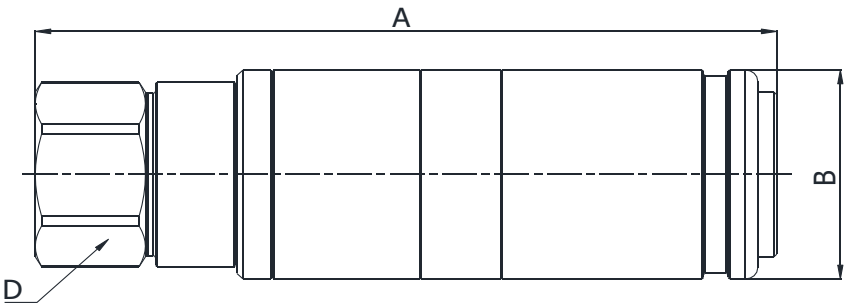
| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-----------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |           | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911341A-08-08 | 1/2" NPTF | 120.3         | ø38 | 30 |  |  |  |



**Q01911230A**

SAE TERMINATION ENDS  
ISO 8434-2 BULKHEAD

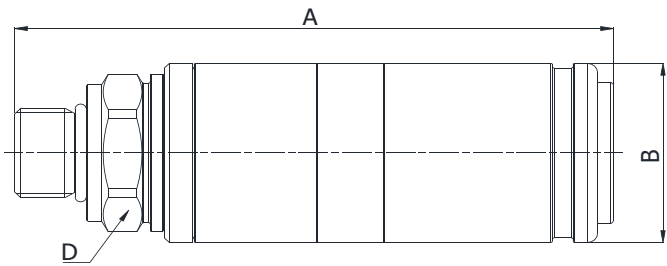
| SIZE |      |      | PART NUMBER      | THREAD     | DIMENSIONS mm |     |      |    |  |  |
|------|------|------|------------------|------------|---------------|-----|------|----|--|--|
| DN   | Inch | Dash | Female coupling  |            | A             | B   | D    |    |  |  |
| 12.5 | 1/2" | -08  | Q01911230A-08-10 | 7/8"-14UNF | 143.9         | ø38 | 40.1 | 30 |  |  |



**Q01911301A**

SAE TERMINATION ENDS  
TO SAE J1926-1

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |             | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911301A-08-08 | 3/4"-16 UNF | 119.3         | ø38 | 30 |  |  |  |



**Q01911320A**

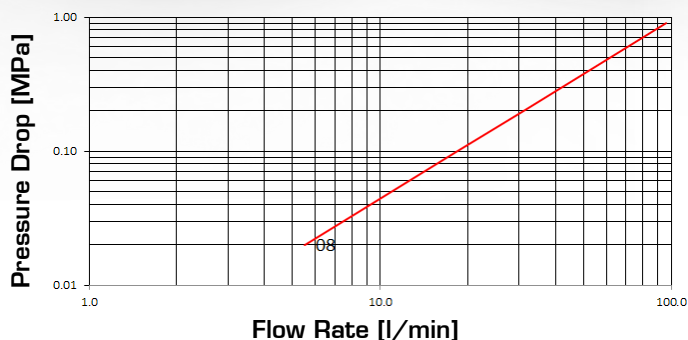
ORB TERMINATION ENDS  
TO SAE J1926-2 S SERIES

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |             | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q01911320A-08-08 | 3/4"-16 UNF | 116.9         | ø38 | 30 |  |  |  |
| 12.5 | 1/2" | -08  | Q01911320A-08-10 | 7/8"-14UNF  | 118.9         | ø38 | 30 |  |  |  |

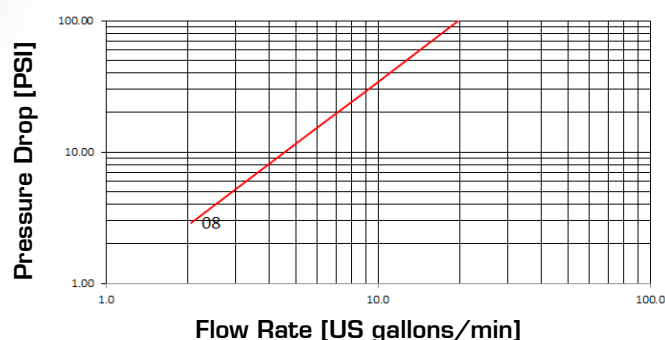


# BRAKING CIRCUIT VALVES

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |     |  |            |  |       |        |      |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE (Dynamic)                                                          |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE Connection/Disconnection                                               |            | MINIMUM BURST PRESSURE                                                                |       |        |      |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |      | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI  | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 15                                                                                  | 2175 | 31                                                                                  | 8.2    | 110                                                                                 | 224 | 0.02                                                                                | 0.001      | 130                                                                                   | 18850 | 60     | 8700 | 130   | 18850 | Not allowed                                                                           |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Trailer brake coupling specially designed to connect the hydraulic braking system of tractors to trailers
- Connection and disconnection by pulling back the sleeve
- Positive connection by latching balls system
- Shut-off by flat valve
- The male has to be placed on the tractor and the female on the implement
- Interchangeable according to ISO 5676

## MATERIAL

Female and male coupling in steel, with some stressed tempered areas. Carbonitrided valve and sleeve, springs in C98 steel, seals in NBR and back-up ring PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

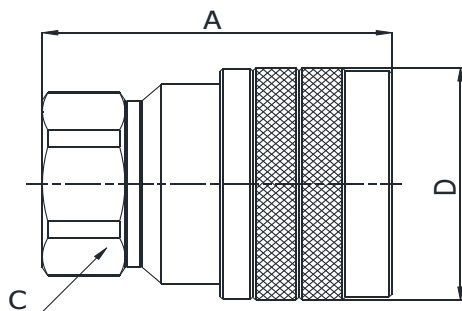
4:1 for dynamic pressures

## TEST SPECIFICATIONS

ISO 18869



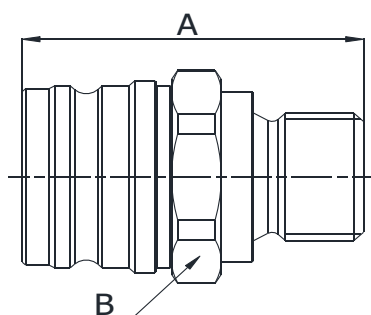
Safety cap for male coupling and female coupling with parking included



Q04811041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

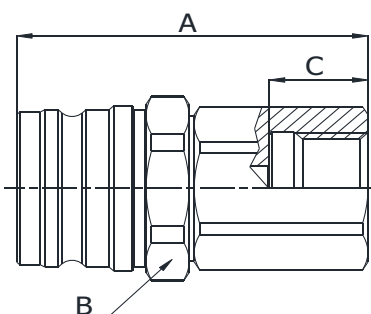
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |        | A             | B   | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04811041A-08-06 | 3/8"   | 55,5          | ø44 | 32 |  |  |  |
| 12.5 | 1/2" | -08  | Q04811041A-08-08 | 1/2"   | 56,5          | ø44 | 32 |  |  |  |



Q04711050A

BSP TERMINATION ENDS  
TO ISO 8434-6

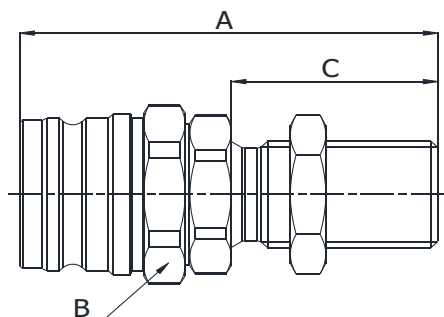
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -8   | Q04711050A-08-08 | 1/2"   | 48            | 32 |  |  |  |  |



Q04711041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

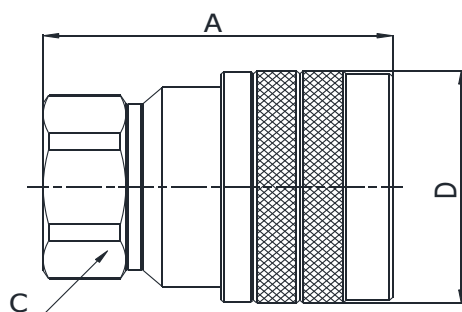
| SIZE |      |      | PART NUMBER      | THREAD   | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|----------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |          | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711041A-08-08 | 1/2" GAS | 57            | 32 | 16 |  |  |  |



## Q04711040A

BSP TERMINATION ENDS  
TO ISO 8434-6  
BULKHEAD

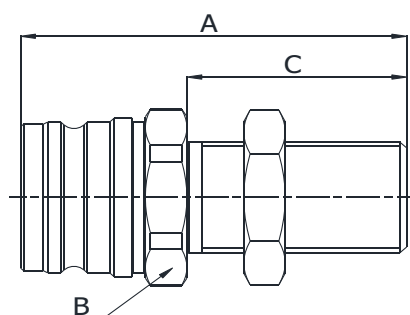
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|--------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711040A-08-08 | 1/2"   | 70.8          | 32 | 35 |  |  |  |



## Q04811141A

METRIC TERMINATION ENDS  
TO DIN 3852 X TYPE

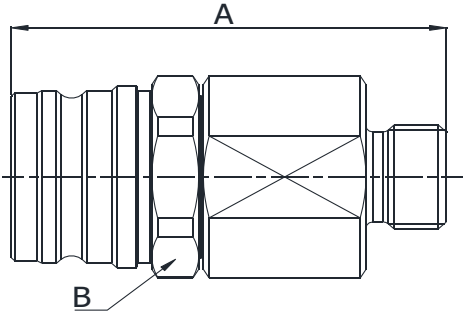
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04811141A-08-18 | M18x1,5 | 55,5          | ø44 | 32 |  |  |  |



## Q04711370A

METRIC TERMINATION ENDS  
TO DIN 3863  
BULKHEAD

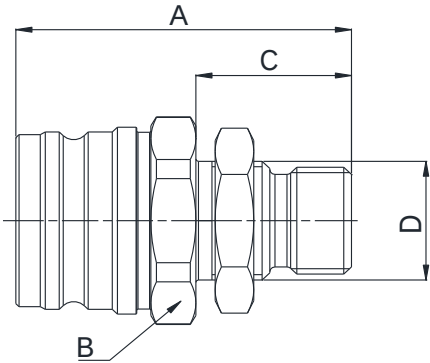
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|---------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711370A-08-22 | M22x1,5 | 65            | 32 | 37 |  |  |  |



**Q04711110A**

METRIC TERMINATION ENDS  
TO ISO 8434-1  
L SERIES

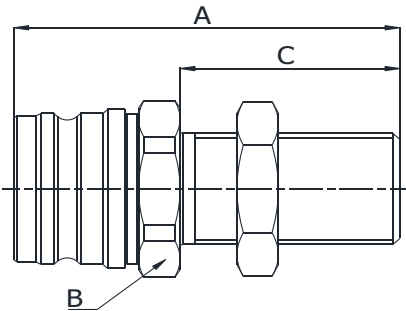
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|---------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711110A-08-18 | M18x1,5 | 65            | 32 |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711110A-08-22 | M22x1,5 | 64.7          | 32 |  |  |  |  |



**Q04711770A**

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD

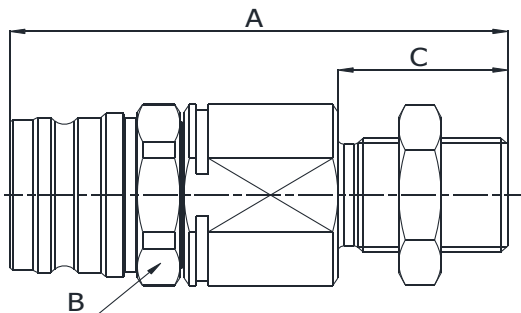
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |      |         |  |  |
|------|------|------|------------------|---------|---------------|----|------|---------|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C    | D       |  |  |
| 12.5 | 1/2" | -08  | Q04711770A-08-16 | M16x1.5 | 52.5          | 32 | 24.5 | M20x1.5 |  |  |
| 12.5 | 1/2" | -08  | Q04711770A-08-18 | M18x1.5 | 52            | 32 | 24   | M20x1.5 |  |  |



**Q04711770A**

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

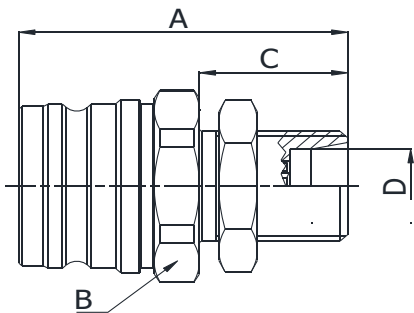
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|---------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711770A-08-22 | M22x1,5 | 63            | 32 | 35 |  |  |  |



## Q04711770B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

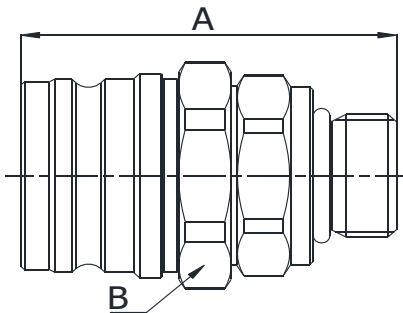
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|---------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711770B-08-22 | M22x1,5 | 82            | 32 | 28 |  |  |  |



## Q04711820A

METRIC TERMINATION END  
BULKHEAD

| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |       |  |  |
|------|------|------|------------------|---------|---------------|----|----|-------|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  | D     |  |  |
| 12.5 | 1/2" | -08  | Q04711820A-08-20 | M20x1,5 | 51            | 32 | 23 | ø13,5 |  |  |

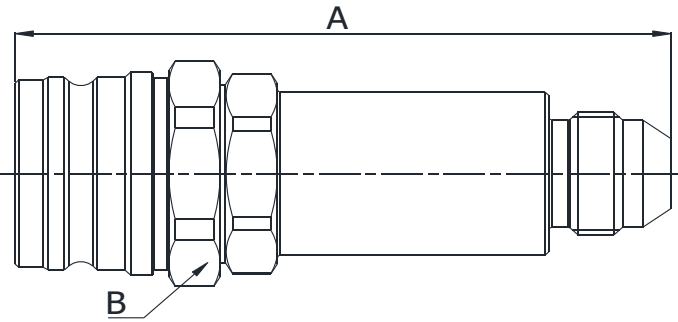


## Q04711300A

SAE TERMINATION END  
TO SAE J1926-3

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|-------------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |             | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711300A-08-08 | 3/4"-16 UNF | 50            | 32 |  |  |  |  |

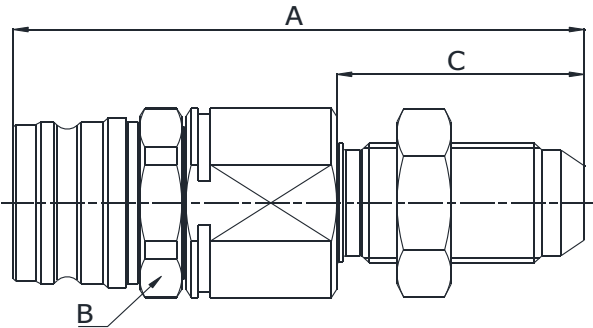




**Q04711250A**

SAE TERMINATION ENDS  
TO ISO 8434-2

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|-------------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |             | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04711250A-08-08 | 3/4"-16 UNF | 89.5          | 32 |  |  |  |  |



**Q04711230A**

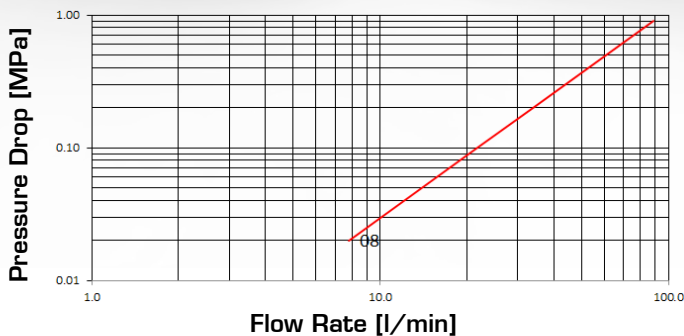
SAE TERMINATION ENDS  
TO ISO 8434-2  
BULKHEAD

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |    |      |  |  |  |
|------|------|------|------------------|-------------|---------------|----|------|--|--|--|
| DN   | Inch | Dash | Male coupling    |             | A             | B  | C    |  |  |  |
| 12.5 | 1/2" | -08  | Q04711230A-08-10 | 7/8"-14 UNF | 94.8          | 32 | 40.1 |  |  |  |

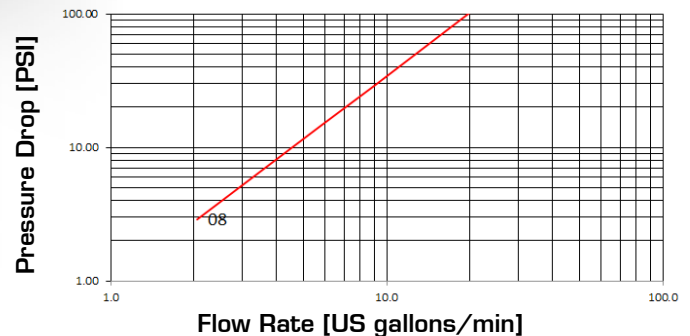
# AGRICULTURAL VALVES



Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRES-SURE (Dynamic)                                                         |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 20                                                                                  | 2900 | 34                                                                                  | 9.0    | 0.02                                                                                | 0.001      | 130                                                                                   | 18850 | 80     | 11600 | 140   | 20300 | ALLOWED                                                                               |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Trailer brake coupling specially designed to connect the hydraulic breaking system of tractors to trailers
- Connection and disconnection by screwing the sleeve
- Connection secured on the thread between the sleeve and the male coupling
- Flat-valve
- Connection and disconnection under pressure allowed
- The male has to be placed on the tractor and the female on the implement
- Interchangeable with similar products available on the market

## MATERIAL

Female and male coupling in steel, with hardened stressed areas. Carbonitrided valve, springs in C98 steel, seals in NBR and back-up ring PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

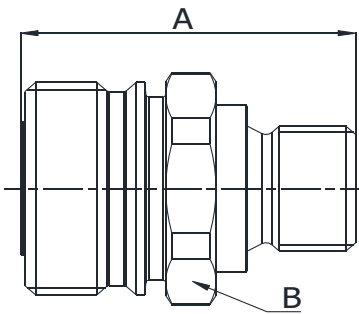
4:1 for dynamic pressures

## TEST SPECIFICATIONS

ISO 18869



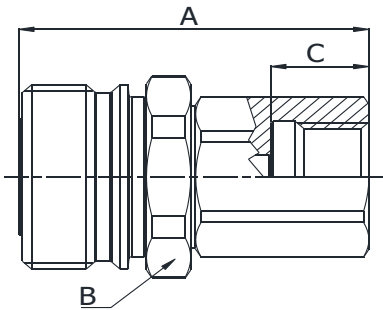
Safety cap for male coupling and female coupling with parking included



Q04911050A

BSP TERMINATION ENDS  
TO ISO 8434-6

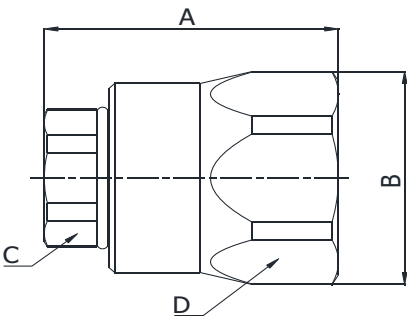
| SIZE |      |      | PART NUMBER      | THREAD   | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|----------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |          | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911050A-08-08 | 1/2" GAS | 48            | 36 |  |  |  |  |



Q04911041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

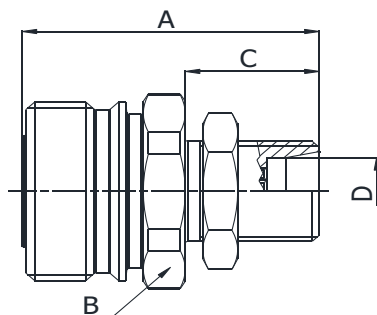
| SIZE |      |      | PART NUMBER      | THREAD   | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|----------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |          | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911041A-08-08 | 1/2" BSP | 57            | 36 | 16 |  |  |  |



Q05011141A

METRIC TERMINATION ENDS  
TO DIN 3852 X TYPE

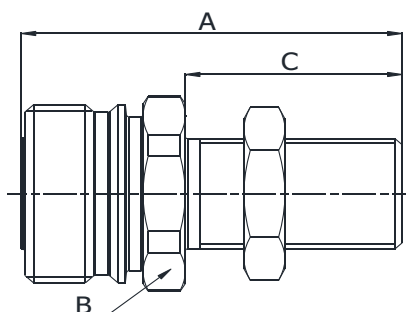
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|---------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  |         | A             | B   | C  | D  |  |  |
| 12.5 | 1/2" | -08  | Q05011141A-08-18 | M18x1,5 | 53.5          | ø45 | 27 | 41 |  |  |



## Q04911820A

METRIC TERMINATION ENDS  
BULKHEAD

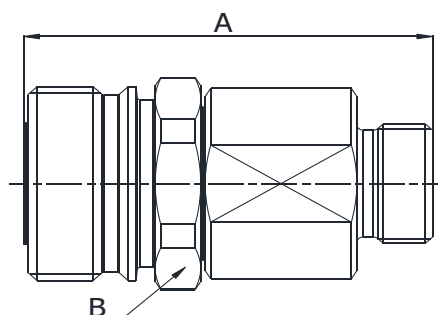
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |       |  |  |
|------|------|------|------------------|---------|---------------|----|----|-------|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  | D     |  |  |
| 12.5 | 1/2" | -08  | Q04911820A-08-20 | M20x1,5 | 51            | 36 | 23 | ø13,5 |  |  |



## Q04911370A

METRIC TERMINATION ENDS  
TO DIN 3863  
BULKHEAD

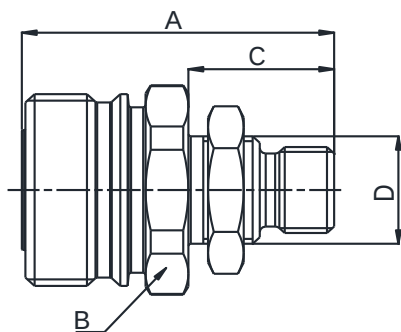
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|---------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911370A-08-22 | M22x1,5 | 65            | 36 | 37 |  |  |  |



## Q04911110A

METRIC TERMINATION ENDS  
TO ISO 8434-1  
L SERIES

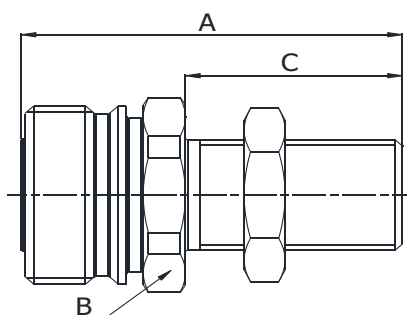
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|---------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911110A-08-18 | M18x1,5 | 65            | 36 |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911110A-08-22 | M22x1,5 | 64.7          | 36 |  |  |  |  |



## Q04911770A

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD

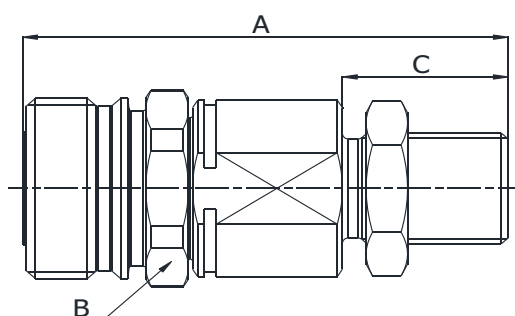
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |      |         |  |  |
|------|------|------|------------------|---------|---------------|----|------|---------|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C    | D       |  |  |
| 12.5 | 1/2" | -08  | Q04911770A-08-16 | M16x1,5 | 52.5          | 36 | 24.5 | M20x1.5 |  |  |
| 12.5 | 1/2" | -08  | Q04911770A-08-18 | M18x1,5 | 52            | 36 | 24   | M20x1.5 |  |  |



## Q04911770A

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

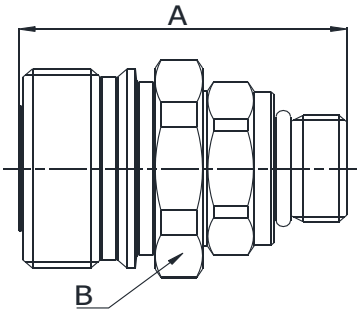
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|---------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911770A-08-22 | M22x1,5 | 63            | 36 | 35 |  |  |  |



## Q04911770B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

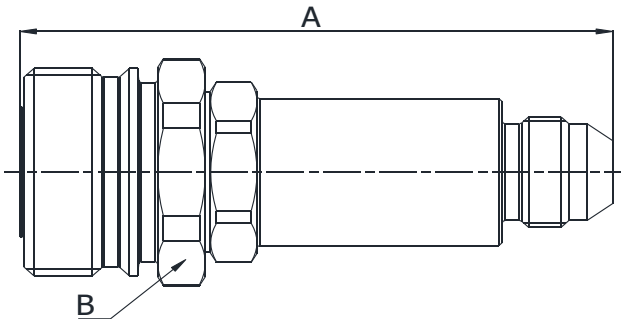
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |    |  |  |  |
|------|------|------|------------------|---------|---------------|----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  | C  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911770B-08-22 | M22x1,5 | 82            | 36 | 28 |  |  |  |



## Q04911300A

SAE TERMINATION END  
TO SAE J1926-3

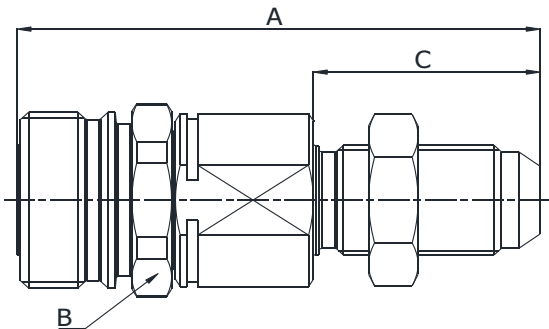
| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|-------------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |             | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -08  | Q04911300A-08-08 | 3/4"-16 UNF | 50            | 36 |  |  |  |  |



## Q04911250A

BSP TERMINATION ENDS  
TO ISO 8434-6

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  |  |  |  |  |
| 12.5 | 1/2" | -8   | Q04711050A-08-08 | 1/2"   | 48            | 32 |  |  |  |  |



## Q04911230A

SAE TERMINATION ENDS  
TO ISO 8434-2  
BULKHEAD

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |    |      |  |  |  |
|------|------|------|------------------|-------------|---------------|----|------|--|--|--|
| DN   | Inch | Dash | Male coupling    |             | A             | B  | C    |  |  |  |
| 12.5 | 1/2" | -08  | Q04911230A-08-10 | 7/8"-14 UNF | 94.8          | 36 | 40.1 |  |  |  |



DIAGNOSTIC

| TECHNICAL DATA                                                                    |      |      |                                                                                   |      |                                                                                     |       |
|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------|
|  |      |      |  |      |  |       |
| SIZE                                                                              |      |      | WORKING PRESSURE (Dynamic)                                                        |      | MINIMUM BURST PRESSURE                                                              |       |
| DN                                                                                | inch | Dash | MPa                                                                               | PSI  | Male                                                                                |       |
|                                                                                   |      |      |                                                                                   |      | MPa                                                                                 | PSI   |
| 5                                                                                 | 1/8  | 02   | 42                                                                                | 6090 | 250                                                                                 | 36250 |

PRODUCT DESCRIPTION

- Quick coupling purposely designed to easily access hydraulic systems for performance testing
- Installing male coupling in several parts of the hydraulic system, a reliable diagnosis can be carried out in a short time
- Connection by pushing the male coupling in the female of vice-versa
- Disconnection by pulling back the sleeve
- Retaining by ball latching system
- Shut-off system by flat valve
- Wide range of termination ends available on request and protective cap
- Interchangeability according to ISO 15171-1 and SAE J1502

MATERIAL

Male coupling in steel, with some hardened areas in correspondence to the most stressed points. Carbonitrided valve, spring in C98 steel and seals in NBR (other materials on request)

WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For different temperature range, the coupling can be assembled with specific seals

SAFETY FACTOR

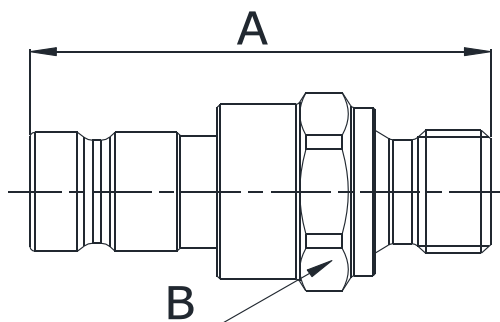
4:1 for dynamic pressures

IMPULSE PRESSURES

1,000,000 cycles at 133% of the rated one  
(freq. 1Hz)

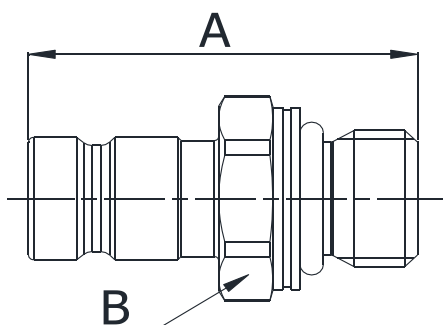
TEST SPECIFICATIONS

ISO 18869

**Q04511050A**

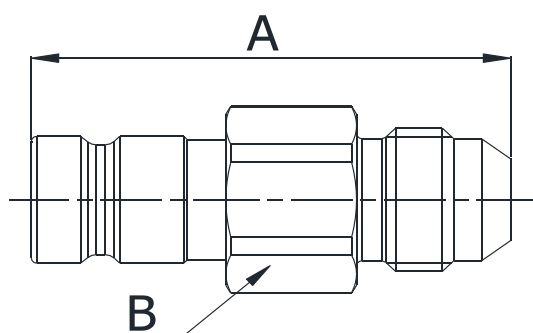
BSP TERMINATION ENDS  
TO ISO 8434-6

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511050A-02-04 | 3/8"   | 43.8          | 19 |  |  |  |  |

**Q04511190A**

METRIC TERMINATION ENDS  
TO ISO 6149-2

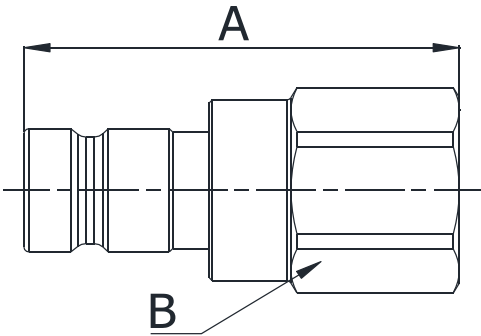
| SIZE |      |      | PART NUMBER      | THREAD  | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|---------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |         | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511190A-02-14 | M14x1,5 | 36.4          | 19 |  |  |  |  |

**Q04511250A**

SAE TERMINATION ENDS  
TO ISO 8434-2

| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511250A-02-06 | 3/8"   | 43.9          | 17 |  |  |  |  |

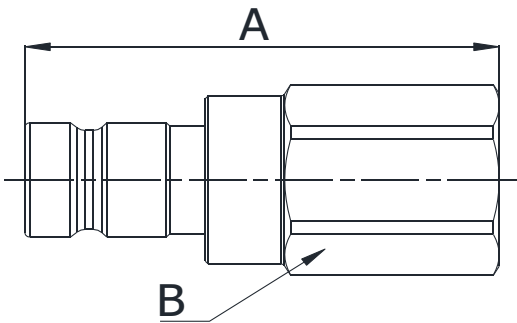




**Q04511251A**

SAE TERMINATION ENDS  
TO ISO 8434-2

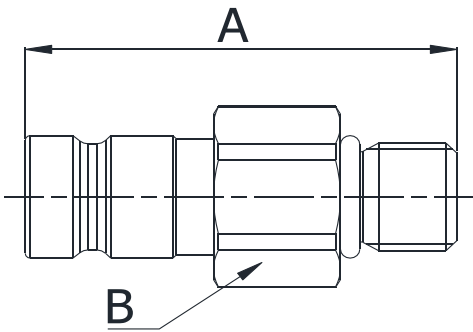
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |    |  |  |  |
|------|------|------|------------------|--------|---------------|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B  |  |  |  |
| 5    | 1/8" | -02  | Q04511251A-02-06 | 3/8"   | 41.8          | 19 |  |  |  |



**Q04511301A**

SAE TERMINATION ENDS  
TO SAE J1926-1

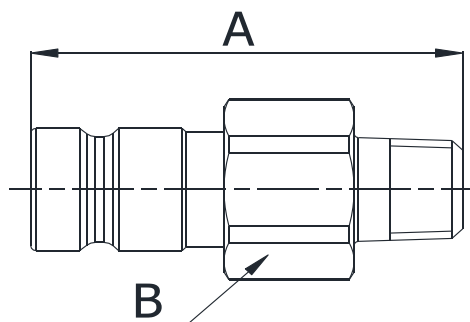
| SIZE |      |      | PART NUMBER      | THREAD       | DIMENSIONS mm |    |  |  |  |
|------|------|------|------------------|--------------|---------------|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |              | A             | B  |  |  |  |
| 5    | 1/8" | -02  | Q04511301A-02-06 | 9/16"-18 UNF | 46.8          | 19 |  |  |  |



**Q04511320A**

SAE TERMINATION ENDS  
TO SAE J1926-2

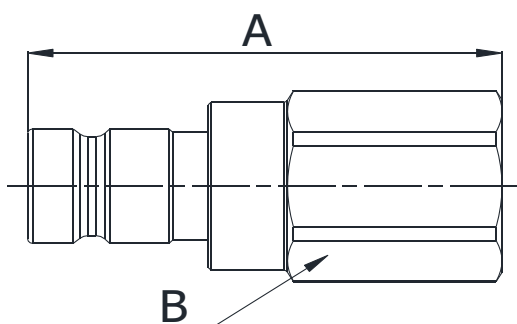
| SIZE |      |      | PART NUMBER      | THREAD       | DIMENSIONS mm |    |  |  |  |
|------|------|------|------------------|--------------|---------------|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |              | A             | B  |  |  |  |
| 5    | 1/8" | -02  | Q04511320A-02-04 | 7/16"-20 UNF | 40.8          | 17 |  |  |  |
| 5    | 1/8" | -02  | Q04511320A-02-06 | 9/16"-18 UNF | 37.4          | 17 |  |  |  |



## Q04511280A

NPTF TERMINATION ENDS  
TO ANSI B 1.20.3

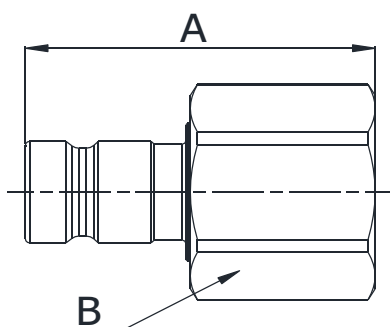
| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|-----------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |           | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511280A-02-02 | 1/8" NPTF | 39.8          | 17 |  |  |  |  |
| 5    | 1/8" | -02  | Q04511280A-02-04 | 1/4" NPTF | 44.3          | 17 |  |  |  |  |
| 5    | 1/8" | -02  | Q04511280A-02-06 | 3/8" NPTF | 39.9          | 19 |  |  |  |  |



## Q04511341A

NPTF TERMINATION ENDS  
TO ANSI B 1.20.3

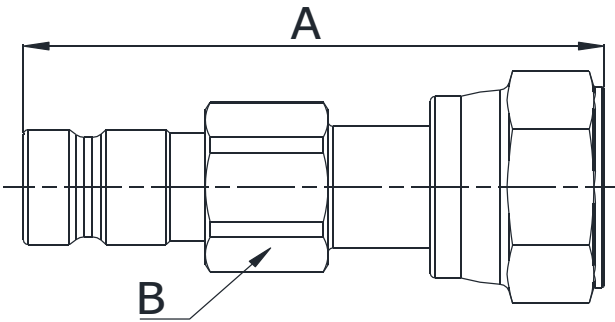
| SIZE |      |      | PART NUMBER      | THREAD    | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|-----------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |           | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511341A-02-02 | 1/8" NPTF | 37.8          | 17 |  |  |  |  |
| 5    | 1/8" | -02  | Q04511341A-02-04 | 1/4" NPTF | 45.8          | 17 |  |  |  |  |



## Q04511241A

ORFS TERMINATION ENDS  
TO SAE J1453

| SIZE |      |      | PART NUMBER      | THREAD       | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |              | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511241A-02-08 | 13/16"-16 UN | 38.8          | 24 |  |  |  |  |



Q04511241A

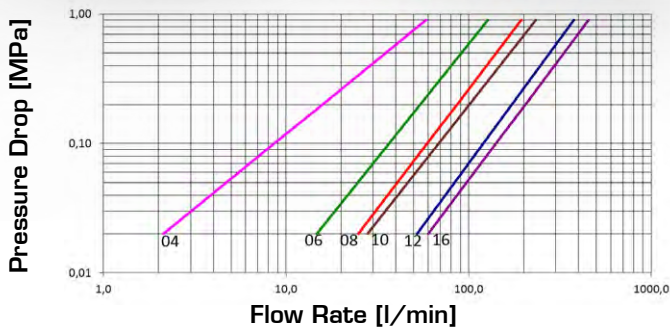
ORFS TERMINATION ENDS  
TO SAE J1453

| SIZE |      |      | PART NUMBER      | THREAD       | DIMENSIONS mm |    |  |  |  |  |
|------|------|------|------------------|--------------|---------------|----|--|--|--|--|
| DN   | Inch | Dash | Male coupling    |              | A             | B  |  |  |  |  |
| 5    | 1/8" | -02  | Q04511241A-02-04 | 9/16"-16 UNF | 53            | 17 |  |  |  |  |
| 5    | 1/8" | -02  | Q04511241A-02-06 | 11/16"-16 UN | 56.8          | 17 |  |  |  |  |

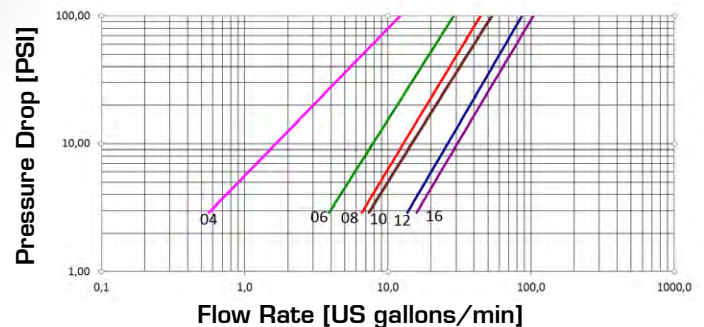
# FLAT FACE



Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |      |      | MPa |      | WORKING PRESSURE<br>CONNECTED [Dynamic] |      | WORKING PRESSURE<br>DISCONNECTED [Dynamic] |        | RATED FLOW<br>at 0.2 MPa<br>of pressure drop |      | CONNECTION EFFORT |            | OIL SPILLAGE<br>Connection/<br>Disconnection |        | MINIMUM BURST PRESSURE |       |        |       |      |        | CONNECTION WITH<br>FEMALE UNDER<br>PRESSURE<br>[MALE AT 0 MPa] |                     |
|------|------|------|-----|------|-----------------------------------------|------|--------------------------------------------|--------|----------------------------------------------|------|-------------------|------------|----------------------------------------------|--------|------------------------|-------|--------|-------|------|--------|----------------------------------------------------------------|---------------------|
| DN   | inch | Dash | MPa | PSI  | MPa                                     | PSI  | l/min                                      | US GPM | N                                            | lb.  | cc.               | cubic inch | Male                                         | Female | M & F                  | Male  | Female | M & F | Male | Female | M & F                                                          |                     |
| 6.3  | 1/4" | 04   | 35  | 5075 | 32                                      | 4640 | 16                                         | 4.2    | 120                                          | 27.0 | 0.005             | 0.0003     | 180                                          | 26100  | 130                    | 18850 | 160    | 23200 | 180  | 26100  | 130                                                            | Allowed up to 6 MPa |
| 10   | 3/8" | 06   | 35  | 5075 | 25                                      | 3625 | 54                                         | 14.3   | 130                                          | 29.2 | 0.007             | 0.0004     | 135                                          | 19575  | 125                    | 18125 | 140    | 20300 | 135  | 19575  | 125                                                            | Allowed up to 6 MPa |
| 12.5 | 1/2" | 08   | 35  | 5075 | 25                                      | 3625 | 86                                         | 22.7   | 150                                          | 33.7 | 0.008             | 0.0005     | 120                                          | 17400  | 110                    | 15950 | 145    | 21025 | 120  | 17400  | 110                                                            | Allowed up to 4 MPa |
| 16   | 5/8" | 10   | 35  | 5075 | 25                                      | 3625 | 101                                        | 26.7   | 160                                          | 36.0 | 0.008             | 0.0005     | 150                                          | 21750  | 100                    | 14500 | 160    | 23200 | 150  | 21750  | 100                                                            | Allowed up to 3 MPa |
| 19   | 3/4" | 12   | 35  | 5075 | 25                                      | 3625 | 172                                        | 45.4   | 210                                          | 47.2 | 0.009             | 0.0005     | 100                                          | 14500  | 105                    | 15225 | 140    | 20300 | 100  | 14500  | 105                                                            | Allowed up to 2 MPa |
| 25   | 1"   | 16   | 35  | 5075 | 21                                      | 3045 | 204                                        | 53.9   | 210                                          | 47.2 | 0.02              | 0.0012     | 105                                          | 15225  | 85                     | 12325 | 145    | 21025 | 105  | 15225  | 85                                                             | Allowed up to 2 MPa |

Connection with Male under pressure not allowed; Disconnection under pressure not allowed

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection
- Connection is made by pushing the male coupling and disconnection by pulling back the sleeve of the female
- Safety system on female part to prevent accidental disconnection
- Positive, quick connection of the male into the female by the latching ball system
- Shut-off by flat valve
- Interchangeability according to ISO 16028 and HTMA standards (only for 3/8")
- 1,000,000 cycles at 120% of rated (freq. 1Hz - connected conditions)

## MATERIAL

Female and male coupling in steel, with some stressed tempered or carbonitrided areas. Springs in AISI and C98 steel, seals in polyurethane and NBR. Other materials (VITON, EPDM or any others) on request

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures the coupling is assembled with the specified seals

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

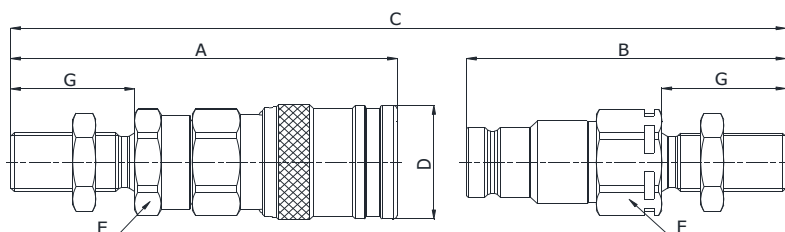
100,000 cycles at 133% of the rated one (freq. 1Hz) in disconnected conditions. 1,000,000 cycles at 120% of rated one (freq. 1Hz) in connected conditions.

## TEST SPECIFICATIONS

ISO 18869

# Q04111040A

# Q03911040A

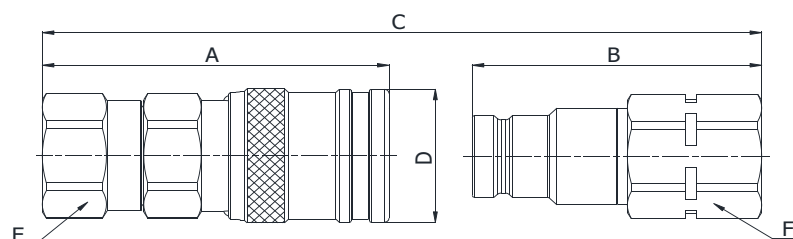


BSP TERMINATION ENDS  
TO ISO 8434-6  
BULKHEAD

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  | G  |
| 10   | 3/8" | -06  | Q04111040A-06-06 | Q03911040A-06-06 | 3/8"   | 99.9          | 82.5 | A+B-16,4 | ø32 | 27 | 27 | 32 |

# Q04111041A

# Q03911041A

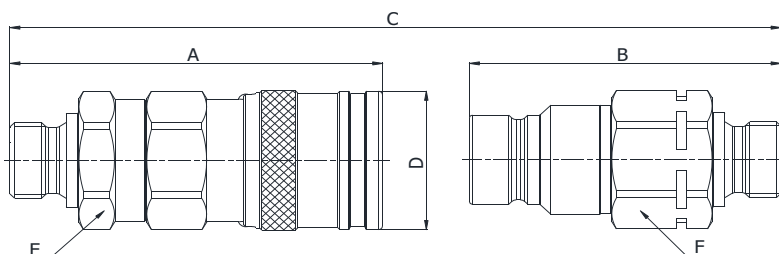


BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |  |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |  |
| 6.3  | 1/4" | -04  | Q04111041A-04-04 | Q03911041A-04-04 | 1/4"   | 63.6          | 52.1 | A+B-11,1 | ø28 | 24 | 22 |  |
| 6.3  | 1/4" | -04  | Q04111041A-04-06 | Q03911041A-04-06 | 3/8"   | 63.6          | 53.6 | A+B-11,1 | ø28 | 24 | 22 |  |
| 10   | 3/8" | -06  | Q04111041A-06-06 | Q03911041A-06-06 | 3/8"   | 74.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q04111041A-06-08 | Q03911041A-06-08 | 1/2"   | 77.9          | 65.5 | A+B-15,9 | ø32 | 27 | 27 |  |
| 12.5 | 1/2" | -08  | Q04111041A-08-06 | Q03911041A-08-06 | 3/8"   | 81.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q04111041A-08-08 | Q03911041A-08-08 | 1/2"   | 84.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q04111041A-08-12 | Q03911041A-08-12 | 3/4"   | 86.7          | 74.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111041A-10-12 | Q03911041A-10-12 | 3/4"   | 89.9          | 75.1 | A+B-17,6 | ø42 | 34 | 34 |  |
| 20   | 3/4" | -12  | Q04111041A-12-08 | Q03911041A-12-08 | 1/2"   | 105.9         | 88.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 20   | 3/4" | -12  | Q04111041A-12-12 | Q03911041A-12-12 | 3/4"   | 105.9         | 88.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 20   | 3/4" | -12  | Q04111041A-12-16 | Q03911041A-12-16 | 1"     | 108.9         | 91.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 25   | 1"   | -16  | Q04111041A-16-16 | Q03911041A-16-16 | 1"     | 114.5         | 89.8 | A+B-22,9 | ø55 | 50 | 50 |  |
| 25   | 1"   | -16  | Q04111041A-16-20 | Q03911041A-16-20 | 1.1/4" | 117           | 94.8 | A+B-22,9 | ø55 | 50 | 50 |  |

# Q04111050A

# Q03911050A



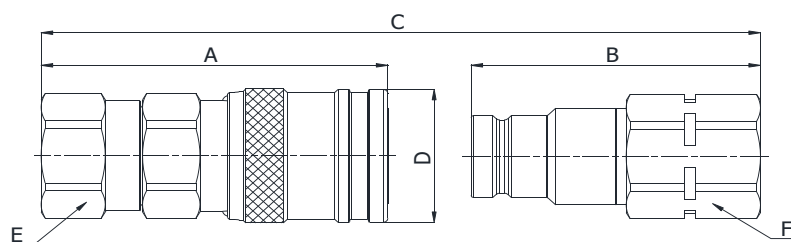
BSP TERMINATION ENDS  
TO ISO 8434-6

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |  |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |  |
| 10   | 3/8" | -06  | Q04111050A-06-06 | Q03911050A-06-06 | 3/8"   | 82.6          | 65.2 | A+B-15,9 | ø32 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q04111050A-06-08 | Q03911050A-06-08 | 1/2"   | 85.1          | 67.7 | A+B-15,9 | ø32 | 27 | 27 |  |
| 12.5 | 1/2" | -08  | Q04111050A-08-08 | Q03911050A-08-08 | 1/2"   | 92.9          | 77.7 | A+B-17,1 | ø38 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q04111050A-08-12 | Q03911050A-08-12 | 3/4"   | 94.9          | 79.7 | A+B-17,1 | ø38 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111050A-10-12 | Q03911050A-10-12 | 3/4"   | 95.6          | 80.3 | A+B-17,6 | ø42 | 34 | 34 |  |

# Q04111141A

# Q03911141A

METRIC TERMINATION ENDS  
TO ISO 3852-1 X TYPE

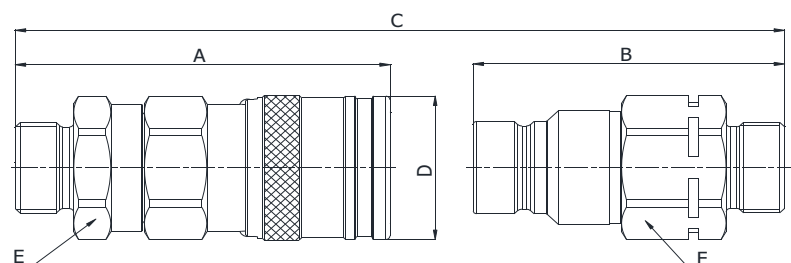


| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q04111141A-04-16 | Q03911141A-04-16 | M16x1,5 | 63.6          | 53.6 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 10   | 3/8" | -06  | Q04111141A-06-18 | Q03911141A-06-18 | M18x1,5 | 77.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04111141A-06-22 | Q03911141A-06-22 | M22x1,5 | 77.9          | 64.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |

# Q04111120A

# Q03911120A

METRIC TERMINATION END  
TO ISO 8434-1  
S SERIES

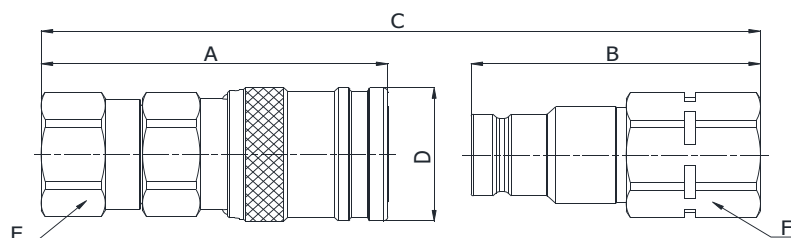


| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q04111120A-04-16 | Q03911120A-04-16 | M16x1,5 | 69.6          | 51.1 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 6.3  | 1/4" | -04  | Q04111120A-04-18 | Q03911120A-04-18 | M18x1,5 | 69.6          | 51.1 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 10   | 3/8" | -06  | Q04111120A-06-18 | Q03911120A-06-18 | M18x1,5 | 79.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04111120A-06-20 | Q03911120A-06-20 | M20x1,5 | 79.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q04111120A-08-20 | Q03911120A-08-20 | M20x1,5 | 87.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |  |
| 12.5 | 1/2" | -08  | Q04111120A-08-24 | Q03911120A-08-24 | M24x1,5 | 87.7          | 74.5 | A+B-17,1 | ø38 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q04111120A-12-30 | Q03911120A-12-30 | M30x2   | 105.9         | 90.5 | A+B-21,7 | ø48 | 41 | 41 |  |  |

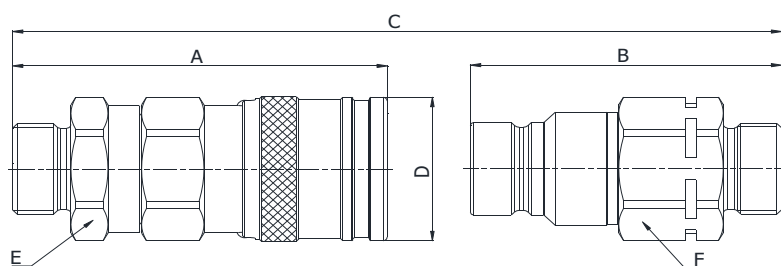
# Q04111191A

# Q03911191A

METRIC TERMINATION ENDS  
TO ISO 6149-1



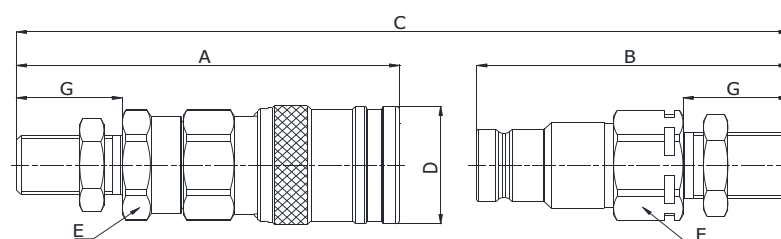
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 10   | 3/8" | -06  | Q04111191A-06-16 | Q03911191A-06-16 | M16x1,5 | 75.4          | 63   | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04111191A-06-18 | Q03911191A-06-18 | M18x1,5 | 76.9          | 64.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |



**Q04111110A**  
**Q03911110A**

METRIC TERMINATION END  
TO ISO 8434-1  
L SERIES

| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q04111110A-04-12 | Q03911110A-04-12 | M16x1,5 | 68.6          | 50.1 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 6.3  | 1/4" | -04  | Q04111110A-04-14 | Q03911110A-04-14 | M14x1,5 | 68.6          | 50.1 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 6.3  | 1/4" | -04  | Q04111110A-04-16 | Q03911110A-04-16 | M16x1,5 | 68.6          | 50.1 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 10   | 3/8" | -06  | Q04111110A-06-14 | Q03911110A-06-14 | M14x1,5 | 77.9          | 61.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04111110A-06-16 | Q03911110A-06-16 | M16x1,5 | 78.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04111110A-06-18 | Q03911110A-06-18 | M18x1,5 | 78.9          | 61.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04111110A-06-22 | Q03911110A-06-22 | M22x1,5 | 79.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q04111110A-08-18 | Q03911110A-08-18 | M18x1,5 | 86.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |  |
| 12.5 | 1/2" | -08  | Q04111110A-08-22 | Q03911110A-08-22 | M22x1,5 | 87.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |  |
| 12.5 | 1/2" | -08  | Q04111110A-08-26 | Q03911110A-08-26 | M26x1,5 | 87.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q04111110A-12-26 | Q03911110A-12-26 | M26x1,5 | 101.9         | 86.5 | A+B-21,7 | ø48 | 41 | 41 |  |  |
| 20   | 3/4" | -12  | Q04111110A-12-30 | Q03911110A-12-30 | M30x2   | 103.9         | 88.5 | A+B-21,7 | ø48 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q04111110A-16-30 | Q03911110A-16-30 | M30x2   | 110.5         | 79.8 | A+B-22,9 | ø55 | 50 | 50 |  |  |



**Q04111770B**  
**Q03911770B**

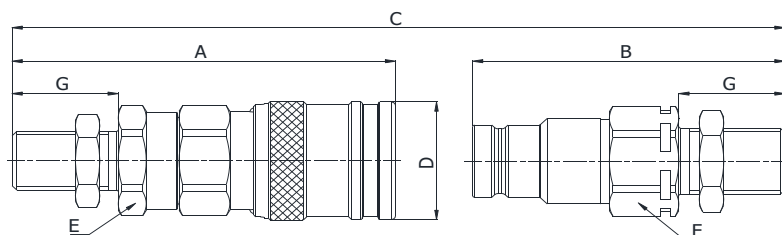
METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES

| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |       |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|-------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B     | C        | D   | E  | F  | G  |
| 6.3  | 1/4" | -04  | Q04111770B-04-12 | Q03911770B-04-12 | M12x1,5 | 82.6          | 65.1  | A+B-11,1 | ø28 | 24 | 22 | 25 |
| 6.3  | 1/4" | -04  | Q04111770B-04-14 | Q03911770B-04-14 | M14x1,5 | 82.6          | 64.1  | A+B-11,1 | ø28 | 24 | 22 | 25 |
| 6.3  | 1/4" | -04  | Q04111770B-04-16 | Q03911770B-04-16 | M16x1,5 | 83.6          | 64.1  | A+B-11,1 | ø28 | 24 | 22 | 26 |
| 10   | 3/8" | -06  | Q04111770B-06-16 | Q03911770B-06-16 | M16x1,5 | 93.9          | 76.5  | A+B-15,9 | ø32 | 27 | 27 | 26 |
| 10   | 3/8" | -06  | Q04111770B-06-18 | Q03911770B-06-18 | M18x1,5 | 93.9          | 76.5  | A+B-15,9 | ø32 | 27 | 27 | 26 |
| 10   | 3/8" | -06  | Q04111770B-06-22 | Q03911770B-06-22 | M22x1,5 | 94.9          | 77.5  | A+B-15,9 | ø32 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q04111770B-08-18 | Q03911770B-08-18 | M18x1,5 | 101.7         | 86.5  | A+B-17,1 | ø38 | 34 | 34 | 26 |
| 12.5 | 1/2" | -08  | Q04111770B-08-22 | Q03911770B-08-22 | M22x1,5 | 102.7         | 87.5  | A+B-17,1 | ø38 | 34 | 34 | 27 |
| 12.5 | 1/2" | -08  | Q04111770B-08-26 | Q03911770B-08-26 | M26x1,5 | 103.7         | 88.5  | A+B-17,1 | ø38 | 34 | 34 | 28 |
| 20   | 3/4" | -12  | Q04111770B-12-26 | Q03911770B-12-26 | M26x1,5 | 114.9         | 102.5 | A+B-21,7 | ø48 | 41 | 41 | 29 |
| 20   | 3/4" | -12  | Q04111770B-12-30 | Q03911770B-12-30 | M30x2   | 118.9         | 106.5 | A+B-21,7 | ø48 | 41 | 41 | 32 |

# Q04111870B

# Q03911870B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD S SERIES

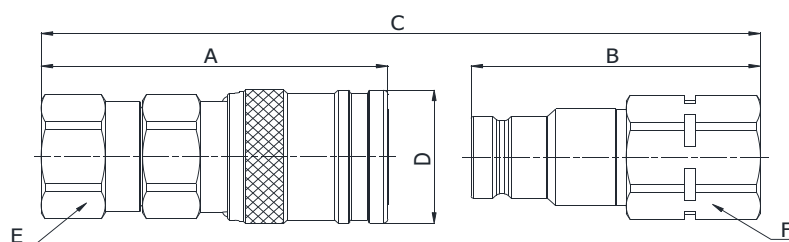


| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |       |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|-------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B     | C        | D   | E  | F  | G  |
| 6.3  | 1/4" | -04  | Q04111870B-04-16 | Q03911870B-04-16 | M16x1,5 | 83.6          | 65.1  | A+B-11,1 | ø28 | 24 | 22 | 27 |
| 6.3  | 1/4" | -04  | Q04111870B-04-18 | Q03911870B-04-18 | M18x1,5 | 83.6          | 65.1  | A+B-11,1 | ø28 | 24 | 22 | 27 |
| 10   | 3/8" | -06  | Q04111870B-06-18 | Q03911870B-06-18 | M18x1,5 | 94.9          | 77.5  | A+B-15,9 | ø32 | 27 | 27 | 27 |
| 10   | 3/8" | -06  | Q04111870B-06-20 | Q03911870B-06-20 | M20x1,5 | 94.9          | 77.5  | A+B-15,9 | ø32 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q04111870B-08-24 | Q03911870B-08-24 | M24x1,5 | 104.7         | 89.5  | A+B-17,1 | ø38 | 34 | 34 | 29 |
| 20   | 3/4" | -12  | Q04111870B-12-30 | Q03911870B-12-30 | M30x2   | 119.9         | 108.5 | A+B-21,7 | ø48 | 41 | 41 | 34 |
| 25   | 1"   | -16  | Q04111870B-16-36 | Q03911870B-16-36 | M36x2   | 128.5         | 101.8 | A+B-22,9 | ø55 | 50 | 50 | 36 |

# Q04111341A

# Q03911341A

NPTF TERMINATION END  
TO ANSI B 1.20.3

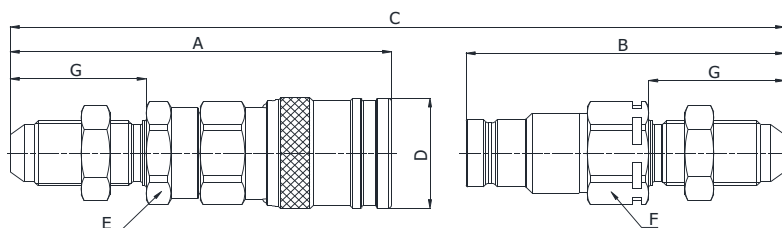


| SIZE |      |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |      |          |     |    |    |  |
|------|------|------|------------------|------------------|-------------|---------------|------|----------|-----|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |             | A             | B    | C        | D   | E  | F  |  |
| 6.3  | 1/4" | -04  | Q04111341A-04-04 | Q03911341A-04-04 | 1/4" NPTF   | 63.6          | 52.1 | A+B-11,1 | ø28 | 24 | 22 |  |
| 10   | 3/8" | -06  | Q04111341A-06-06 | Q03911341A-06-06 | 3/8" NPTF   | 74.9          | 62.5 | A+B-15,9 | ø32 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q04111341A-06-08 | Q03911341A-06-08 | 1/2" NPTF   | 77.9          | 65.5 | A+B-15,9 | ø32 | 27 | 27 |  |
| 12.5 | 1/2" | -08  | Q04111341A-08-08 | Q03911341A-08-08 | 1/2" NPTF   | 84.7          | 72.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q04111341A-08-12 | Q03911341A-08-12 | 3/4" NPTF   | 86.7          | 74.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111341A-10-08 | Q03911341A-10-08 | 1/2" NPTF   | 87.9          | 73.1 | A+B-17,6 | ø42 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111341A-10-12 | Q03911341A-10-12 | 3/4" NPTF   | 89.9          | 75.1 | A+B-17,6 | ø42 | 34 | 34 |  |
| 20   | 3/4" | -12  | Q04111341A-12-12 | Q03911341A-12-12 | 3/4" NPTF   | 105.9         | 88.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 20   | 3/4" | -12  | Q04111341A-12-16 | Q03911341A-12-16 | 1" NPTF     | 108.9         | 91.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 25   | 1"   | -16  | Q04111341A-16-16 | Q03911341A-16-16 | 1" NPTF     | 114.5         | 89.8 | A+B-22,9 | ø55 | 50 | 50 |  |
| 25   | 1"   | -16  | Q04111341A-16-20 | Q03911341A-16-20 | 1.1/4" NPTF | 116.6         | 94.8 | A+B-23,3 | ø55 | 50 | 50 |  |



# Q04111230A

# Q03911230A

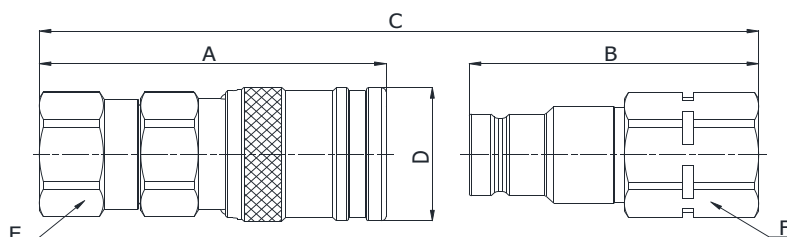


SAE TERMINATION END  
TO ISO 8434-2  
BULKHEAD

| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |       |          |     |    |    |      |
|------|------|------|------------------|------------------|---------------|---------------|-------|----------|-----|----|----|------|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B     | C        | D   | E  | F  | G    |
| 10   | 3/8" | -06  | Q04111230A-06-08 | Q03911230A-06-08 | 3/4"-16 UNF   | 105.5         | 88.1  | A+B-15,9 | ø32 | 27 | 27 | 36.6 |
| 10   | 3/8" | -06  | Q04111230A-06-10 | Q03911230A-06-10 | 7/8"-14 UNF   | 109           | 91.6  | A+B-15,9 | ø32 | 27 | 27 | 40.1 |
| 12.5 | 1/2" | -08  | Q04111230A-08-10 | Q03911230A-08-10 | 7/8"-14 UNF   | 116.8         | 101.6 | A+B-17,1 | ø38 | 34 | 34 | 40.1 |
| 12.5 | 1/2" | -08  | Q04111230A-08-12 | Q03911230A-08-12 | 1.1/16"-12 UN | 121.1         | 105.9 | A+B-17,1 | ø38 | 34 | 34 | 44.4 |

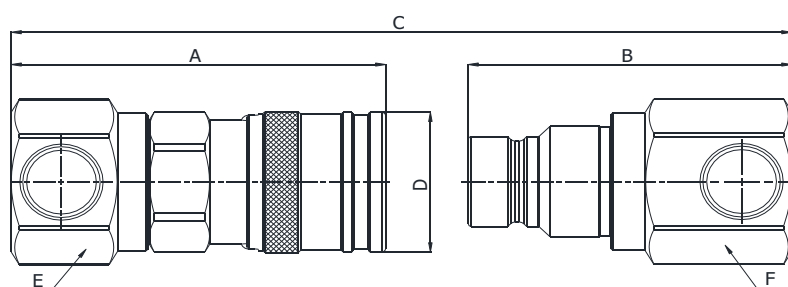
# Q04111301A

# Q03911301A



SAE TERMINATION END  
TO SAE J1926-1

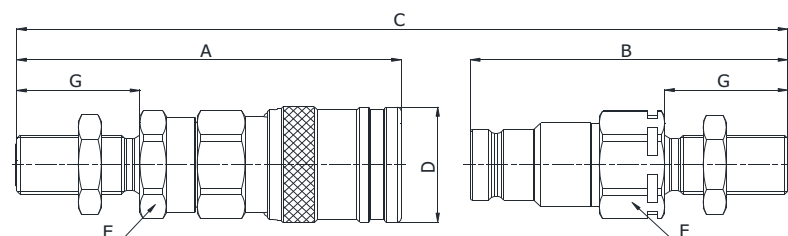
| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |      |          |     |    |    |  |
|------|------|------|------------------|------------------|---------------|---------------|------|----------|-----|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B    | C        | D   | E  | F  |  |
| 6.3  | 1/4" | -04  | Q04111301A-04-06 | Q03911301A-04-06 | 9/16"-18 UNF  | 63.6          | 53.6 | A+B-11,1 | ø28 | 24 | 22 |  |
| 10   | 3/8" | -06  | Q04111301A-06-06 | Q03911301A-06-06 | 9/16"-18 UNF  | 75.4          | 63   | A+B-15,9 | ø32 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q04111301A-06-08 | Q03911301A-06-08 | 3/4"-16 UNF   | 77.4          | 65   | A+B-15,9 | ø32 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q04111301A-06-10 | Q03911301A-06-10 | 7/8"-14 UNF   | 79.9          | 67.5 | A+B-15,9 | ø32 | 27 | 27 |  |
| 12.5 | 1/2" | -08  | Q04111301A-08-08 | Q03911301A-08-08 | 3/4"-16 UNF   | 84.2          | 72   | A+B-17,1 | ø38 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q04111301A-08-10 | Q03911301A-08-10 | 7/8"-14 UNF   | 86.7          | 74.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q04111301A-08-12 | Q03911301A-08-12 | 1.1/16"-12 UN | 89.7          | 77.5 | A+B-17,1 | ø38 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111301A-10-08 | Q03911301A-10-08 | 3/4"-16 UNF   | 87.4          | 72.6 | A+B-17,6 | ø42 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111301A-10-10 | Q03911301A-10-10 | 7/8"-14 UNF   | 89.9          | 75.1 | A+B-17,6 | ø42 | 34 | 34 |  |
| 16   | 5/8" | -10  | Q04111301A-10-12 | Q03911301A-10-12 | 1.1/16"-12 UN | 92.9          | 78.1 | A+B-17,6 | ø42 | 34 | 34 |  |
| 20   | 3/4" | -12  | Q04111301A-12-12 | Q03911301A-12-12 | 1.1/16"-12 UN | 108.9         | 91.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 20   | 3/4" | -12  | Q04111301A-12-16 | Q03911301A-12-16 | 1.5/16"-12 UN | 108.9         | 91.5 | A+B-21,7 | ø48 | 41 | 41 |  |
| 25   | 1"   | -16  | Q04111301A-16-16 | Q03911301A-16-16 | 1.5/16"-12 UN | 114.5         | 89.8 | A+B-22,9 | ø55 | 50 | 50 |  |



**Q04111301B**  
**Q03911301B**

SAE TERMINATION END  
TO SAE J1926-1

| SIZE |      |      | PART NUMBER      |                  | THREAD       | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|--------------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |              | A             | B    | C        | D   | E  | F  |  |  |
| 10   | 3/8" | -06  | Q04111301B-06-06 | Q03911301B-06-06 | 9/16"-18 UNF | 84.9          | 72.5 | A+B-15,9 | ø32 | 34 | 34 |  |  |
| 12.5 | 1/2" | -08  | Q04111301B-08-08 | Q03911301B-08-08 | 3/4"-16 UNF  | 93.2          | 80.5 | A+B-17,1 | ø38 | 41 | 41 |  |  |



**Q04111270A**  
**Q03911270A**

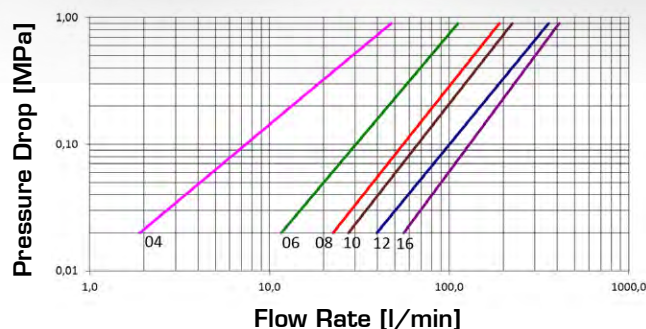
ORFS TERMINATION ENDS  
TO ISO 8434-3  
BULKHEAD

| SIZE |      |      | PART NUMBER      |                  | THREAD       | DIMENSIONS mm |    |          |     |    |    |      |      |
|------|------|------|------------------|------------------|--------------|---------------|----|----------|-----|----|----|------|------|
| DN   | Inch | Dash | Female coupling  | Male coupling    |              | A             | B  | C        | D   | E  | F  | G    | H    |
| 10   | 3/8" | -06  | Q04111270A-06-08 | Q03911270A-06-08 | 13/16"-16 UN | 104.4         | 87 | A+B-16,4 | ø32 | 27 | 27 | 36.5 | 36.5 |

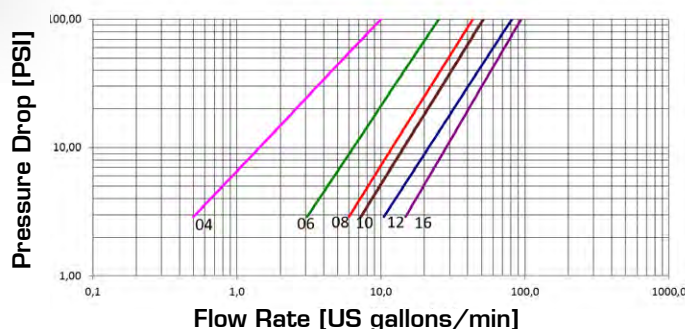


# FLAT FACE HIGH PRESSURE

Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |      |      | MPa |      | WORKING PRESSURE<br>CONNECTED (Dynamic) |      | WORKING PRESSURE<br>DISCONNECTED (Dynamic) |        | RATED FLOW<br>at 0.2 MPa of pressure drop |      | CONNECTION EFFORT |            | OIL SPILLAGE<br>Connection/Disconnection |        | MINIMUM BURST PRESSURE |       |     |       |        |       | CONNECTION WITH FEMALE UNDER PRESSURE [MALE AT 0 MPa] |  |
|------|------|------|-----|------|-----------------------------------------|------|--------------------------------------------|--------|-------------------------------------------|------|-------------------|------------|------------------------------------------|--------|------------------------|-------|-----|-------|--------|-------|-------------------------------------------------------|--|
| DN   | inch | Dash | MPa | PSI  | MPa                                     | PSI  | l/min                                      | US GPM | N                                         | lb.  | cc.               | cubic inch | Male                                     | Female | M & F                  |       |     | Male  | Female | M & F |                                                       |  |
|      |      |      |     |      |                                         |      |                                            |        |                                           |      |                   |            | MPa                                      | PSI    | MPa                    | PSI   | MPa | PSI   | MPa    | PSI   |                                                       |  |
| 6.3  | 1/4  | 04   | 35  | 5075 | 35                                      | 5075 | 13                                         | 3.4    | 120                                       | 27.0 | 0.005             | 0.0003     | 180                                      | 26100  | 150                    | 21750 | 190 | 27550 | 180    | 26100 | Allowed up to 6 MPa                                   |  |
| 10   | 3/8  | 06   | 35  | 5075 | 35                                      | 5075 | 46                                         | 12.2   | 130                                       | 29.2 | 0.007             | 0.0004     | 170                                      | 24650  | 140                    | 20300 | 170 | 24650 | 170    | 24650 | Allowed up to 6 MPa                                   |  |
| 12.5 | 1/2  | 08   | 35  | 5075 | 35                                      | 5075 | 82                                         | 21.7   | 150                                       | 33.7 | 0.008             | 0.0005     | 160                                      | 23200  | 150                    | 21750 | 170 | 24650 | 170    | 24650 | Allowed up to 4 MPa                                   |  |
| 16   | 5/8  | 10   | 35  | 5075 | 35                                      | 5075 | 98                                         | 25.9   | 160                                       | 36.0 | 0.008             | 0.0005     | 170                                      | 24650  | 150                    | 21750 | 170 | 24650 | 170    | 24650 | Allowed up to 3 MPa                                   |  |
| 19   | 3/4  | 12   | 35  | 5075 | 35                                      | 5075 | 150                                        | 39.6   | 210                                       | 47.2 | 0.009             | 0.0005     | 150                                      | 21750  | 150                    | 21750 | 160 | 23200 | 160    | 23200 | Allowed up to 2 MPa                                   |  |
| 25   | 1    | 16   | 35  | 5075 | 35                                      | 5075 | 186                                        | 49.1   | 210                                       | 47.2 | 0.02              | 0.0012     | 160                                      | 23200  | 170                    | 24650 | 160 | 23200 | 160    | 23200 | Allowed up to 2 MPa                                   |  |

Connection with Male under pressure not allowed; Disconnection under pressure not allowed

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- MQS-FH is the flat-face line for heavy-duty application setting with 35MPa of working pressure in connected and disconnected conditions
- Push connection and pulling back the sleeve for disconnection
- Safety system on female part to prevent accidental disconnection
- Interchangeable with ISO 16028
- 1 Million impulse cycles qualified
- E-Coat 1000 plating

## MATERIAL

Female & male couplings in high grade carbon steel with hardened areas in correspondence to the most stressed points. Male vs. female Sealing system in new Polyurethane compound; other seals in NBR with back-up in PTFE.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

1,000,000 cycles at 120% of rated one (freq. 1Hz)

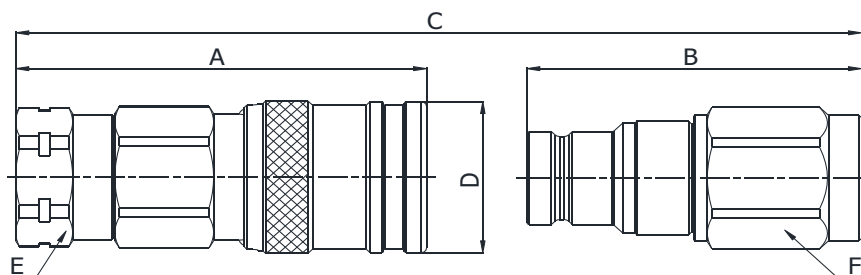
## TEST SPECIFICATIONS

ISO 18869

# Q04411041A

# Q04311041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

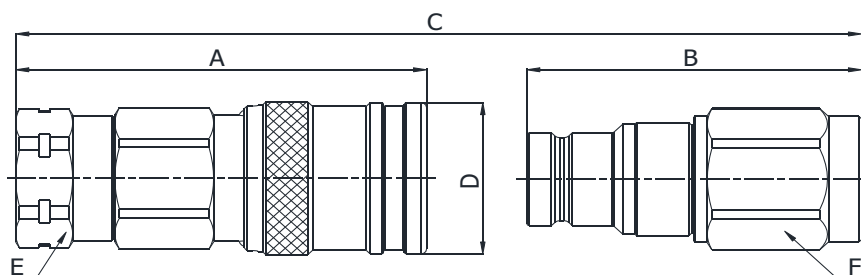


| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q04411041A-04-04 | Q04311041A-04-04 | 1/4"   | 65.2          | 52.4 | A+B-11,1 | ø28 | 24 | 22 |
| 10   | 3/8" | -06  | Q04411041A-06-06 | Q04311041A-06-06 | 3/8"   | 78.3          | 63.8 | A+B-15,9 | ø32 | 27 | 27 |
| 10   | 3/8" | -06  | Q04411041A-06-08 | Q04311041A-06-08 | 1/2"   | 81.3          | 67.8 | A+B-15,9 | ø32 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q04411041A-08-08 | Q04311041A-08-08 | 1/2"   | 88.5          | 71.3 | A+B-17,1 | ø38 | 34 | 34 |
| 12.5 | 1/2" | -08  | Q04411041A-08-12 | Q04311041A-08-12 | 3/4"   | 90.5          | 75.8 | A+B-17,1 | ø38 | 34 | 34 |
| 16   | 5/8" | -10  | Q04411041A-10-12 | Q04311041A-10-12 | 3/4"   | 94.6          | 76.4 | A+B-17,1 | ø42 | 36 | 34 |
| 20   | 3/4" | -12  | Q04411041A-12-12 | Q04311041A-12-12 | 3/4"   | 108           | 89.8 | A+B-21,7 | ø48 | 41 | 41 |
| 20   | 3/4" | -12  | Q04411041A-12-16 | Q04311041A-12-16 | 1"     | 111           | 92.8 | A+B-21,7 | ø48 | 41 | 41 |
| 25   | 1"   | -16  | Q04411041A-16-16 | Q04311041A-16-16 | 1"     | 119.4         | 92.1 | A+B-22,9 | ø55 | 50 | 50 |
| 25   | 1"   | -16  | Q04411041A-16-20 | Q04311041A-16-20 | 1.1/4" | 122.4         | 97.1 | A+B-22,9 | ø55 | 50 | 50 |

# Q04411341A

# Q04311341A

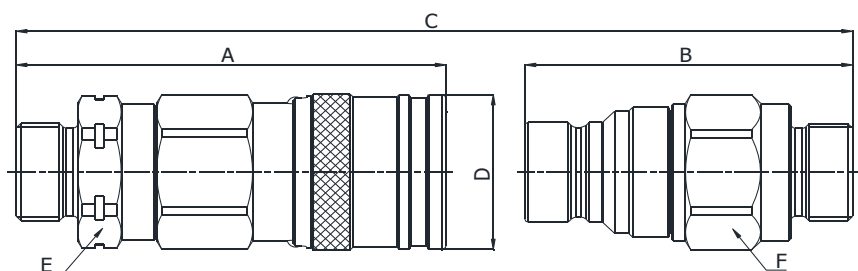
NPTF TERMINATION END  
TO ANSI B 1.20.3



| SIZE |      |      | PART NUMBER      |                  | THREAD   | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |          | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q04411341A-06-06 | Q04311341A-06-06 | 3/8"-NPT | 78.3          | 63.8 | A+B-15,9 | ø32 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q04411341A-08-08 | Q04311341A-08-08 | 1/2"-NPT | 88.5          | 71.3 | A+B-17,1 | ø38 | 34 | 34 |
| 20   | 3/4" | -12  | Q04411341A-12-12 | Q04311341A-12-12 | 3/4"-NPT | 108           | 89.8 | A+B-21,7 | ø48 | 41 | 41 |
| 25   | 1"   | -16  | Q04411341A-16-16 | Q04311341A-16-16 | 1"-NPT   | 119.4         | 92.1 | A+B-22,9 | ø55 | 50 | 50 |

## Q04411120A Q04311120A

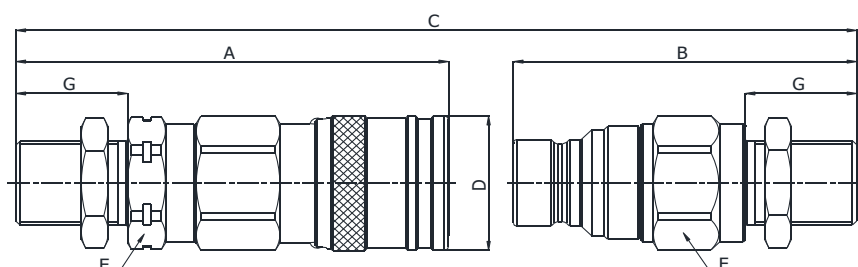
METRIC TERMINATION ENDS  
TO ISO 8434-1 S SERIES



| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q04411120A-08-24 | Q04311120A-08-24 | M24x1,5 | 97.5          | 74.3 | A+B-17,1 | ø38 | 34 | 34 |

## Q04411870B Q04311870B

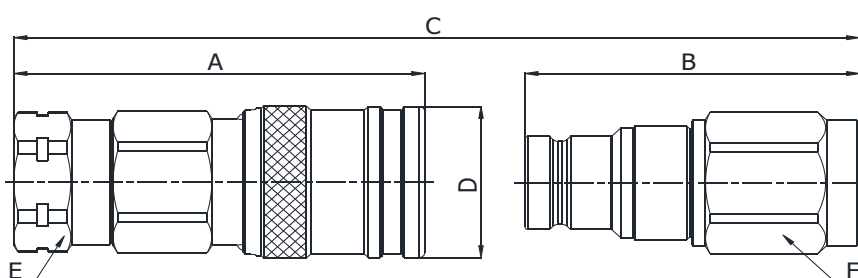
METRIC TERMINATION ENDS  
TO ISO 8434-1 S SERIES  
BULKHEAD



| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  | G  |
| 12.5 | 1/2" | -08  | Q04411870B-08-24 | Q04311870B-08-24 | M24x1,5 | 112.5         | 89.3 | A+B-17,1 | ø38 | 34 | 34 | 29 |

## Q04411301A Q04311301A

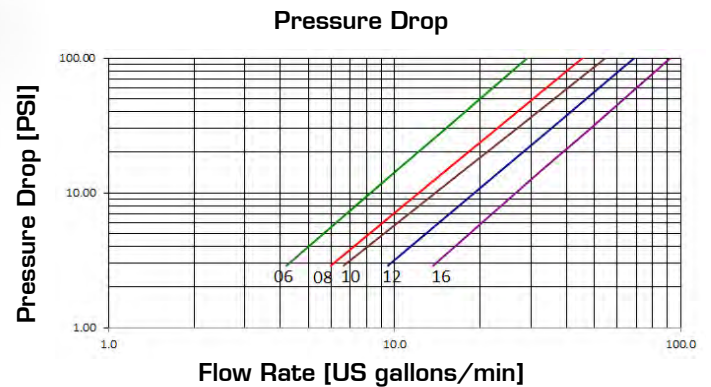
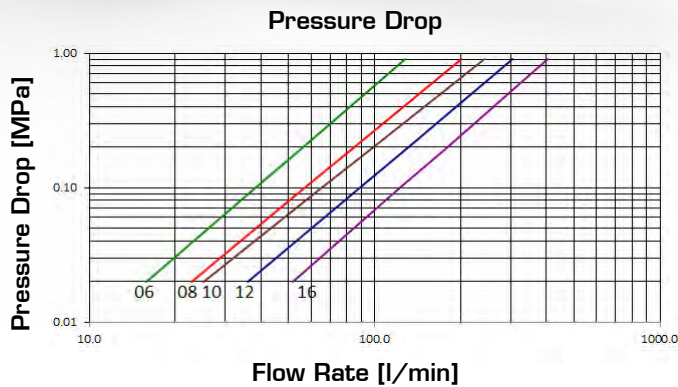
SAE TERMINATION END  
TO SAE J1926-1



| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|---------------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q04411301A-06-08 | Q04311301A-06-08 | 3/4"-16UNF    | 80,8          | 66,8 | A+B-15,9 | ø32 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q04411301A-08-10 | Q04311301A-08-10 | 7/8"-14UNF    | 90.5          | 74.8 | A+B-17,1 | ø38 | 34 | 34 |
| 12.5 | 1/2" | -08  | Q04411301A-08-12 | Q04311301A-08-12 | 1.1/16"-12UNF | 93.5          | 78.8 | A+B-17,1 | ø38 | 34 | 34 |
| 20   | 3/4" | -12  | Q04411301A-12-12 | Q04311301A-12-12 | 1.1/16"-12 UN | 111           | 89.8 | A+B-21,7 | ø48 | 41 | 41 |
| 20   | 3/4" | -12  | Q04411301A-12-16 | Q04311301A-12-16 | 1.5/16"-12 UN | 111           | 92.8 | A+B-21,7 | ø48 | 41 | 41 |



# FLAT FACE MALE CONNECTABLE UNDER PRESSURE



## TECHNICAL DATA

| SIZE |      |      | MPa |      | WORKING PRESSURE<br>CONNECTED (Dynamic) |      | WORKING PRESSURE<br>DISCONNECTED (Dynamic) |        | RATED FLOW<br>at 0.2 MPa of<br>pressure drop |      | CONNECTION<br>EFFORT |            | OIL SPILLAGE<br>Connection/<br>Disconnection |       | MINIMUM BURST PRES-<br>SURE |       | CONNECTION/DISCONNEC-<br>TION UNDER PRESSURE |       |
|------|------|------|-----|------|-----------------------------------------|------|--------------------------------------------|--------|----------------------------------------------|------|----------------------|------------|----------------------------------------------|-------|-----------------------------|-------|----------------------------------------------|-------|
| DN   | inch | Dash | MPa | PSI  | MPa                                     | PSI  | l/min                                      | US GPM | N                                            | lb.  | cc.                  | cubic inch | Male                                         | M & F | Male                        | M & F | Male                                         | M & F |
| 10   | 3/8  | 06   | 35  | 5075 | 35                                      | 5075 | 56                                         | 14.8   | 150                                          | 33.7 | 0.007                | 0.0004     | 170                                          | 24650 | 140                         | 20300 | Connection allowed                           |       |
| 12.5 | 1/2  | 08   | 35  | 5075 | 35                                      | 5075 | 85                                         | 22.5   | 180                                          | 40.5 | 0.008                | 0.0005     | 170                                          | 24650 | 140                         | 20300 | Connection allowed                           |       |
| 16   | 5/8  | 10   | 35  | 5075 | 35                                      | 5075 | 99                                         | 26.2   | 200                                          | 45.0 | 0.008                | 0.0005     | 170                                          | 24650 | 140                         | 20300 | Connection allowed                           |       |
| 19   | 3/4  | 12   | 35  | 5075 | 35                                      | 5075 | 131                                        | 34.6   | 200                                          | 45.0 | 0.009                | 0.0005     | 140                                          | 20300 | 150                         | 21750 | Connection allowed                           |       |
| 25   | 1    | 16   | 35  | 5075 | 35                                      | 5075 | 170                                        | 44.9   | 220                                          | 49.5 | 0.02                 | 0.0012     | 140                                          | 23200 | 160                         | 23200 | Connection allowed                           |       |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Triple valve system that guarantees connection under pressure (female part always with 0MPa) safely
- Low connection effort during connection under pressure
- Working pressure 35MPa
- Interchangeable according to ISO 16028:1997aMD.1:2006 (E)
- Sealing system with flat valve
- Polyurethane seals
- Compact design
- Wide range of termination ends
- E-Coat 1000 plating

## MATERIAL

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in polyurethane and NBR, back-up ring PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

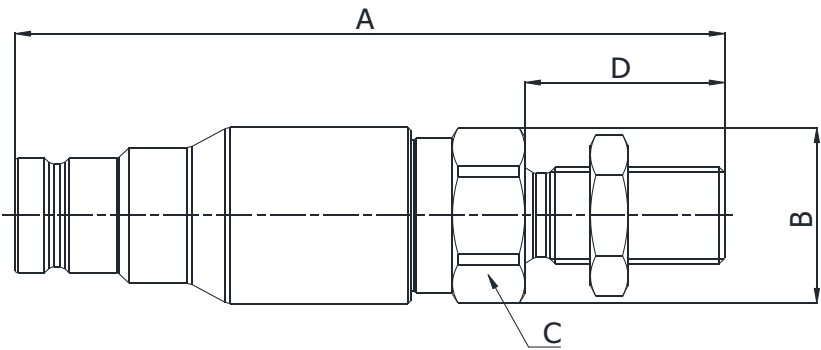
4:1 for dynamic pressures

## IMPULSE PRESSURES

1,000,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

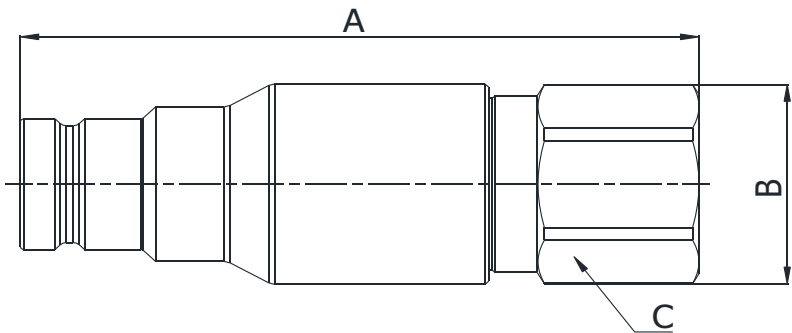
ISO 18869



## Q04011040A

BSP TERMINATION ENDS  
TO ISO 8434-6  
BULKHEAD

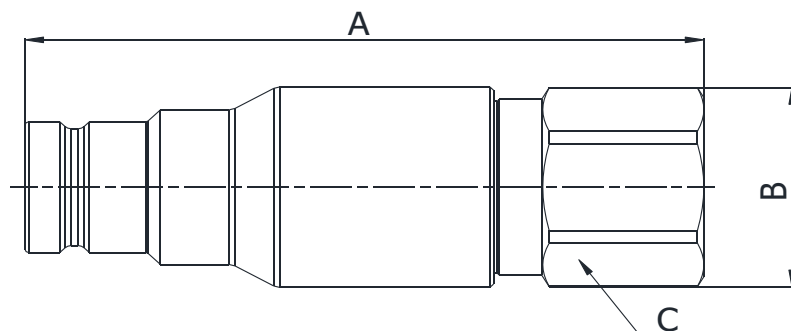
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |    |  |  |
|------|------|------|------------------|--------|---------------|-----|----|----|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B   | C  | D  |  |  |
| 10   | 3/8" | -06  | Q04011040A-06-06 | 3/8"   | 113.5         | ø30 | 27 | 32 |  |  |



## Q04011041A

BSP TERMINATION ENDS  
TO DIN 3852 TYPE

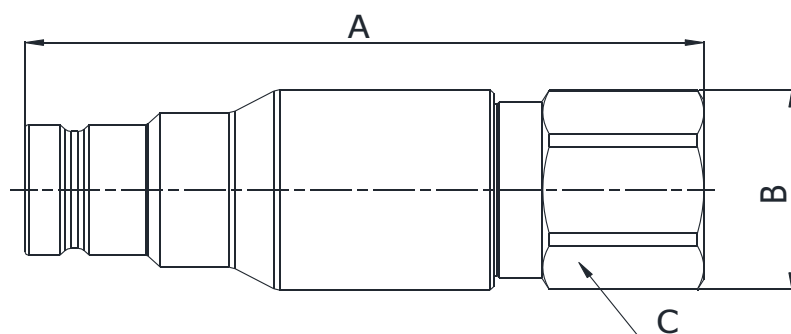
| SIZE |      |      | PART NUMBER      | THREAD | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|--------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Male coupling    |        | A             | B   | C  |  |  |  |
| 10   | 3/8" | -06  | Q04011041A-06-06 | 3/8"   | 91.7          | ø30 | 27 |  |  |  |
| 10   | 3/8" | -06  | Q04011041A-06-08 | 1/2"   | 94            | ø30 | 27 |  |  |  |
| 12   | 1/2" | -08  | Q04011041A-08-06 | 3/8"   | 99            | ø37 | 34 |  |  |  |
| 12   | 1/2" | -08  | Q04011041A-08-08 | 1/2"   | 99            | ø37 | 34 |  |  |  |
| 12   | 1/2" | -08  | Q04011041A-08-12 | 3/4"   | 102           | ø37 | 34 |  |  |  |
| 16   | 5/8" | -10  | Q04011041A-10-12 | 3/4"   | 114.3         | ø40 | 36 |  |  |  |
| 19   | 3/4" | -12  | Q04011041A-12-12 | 3/4"   | 118           | ø45 | 41 |  |  |  |
| 19   | 3/4" | -12  | Q04011041A-12-16 | 1"     | 122           | ø45 | 41 |  |  |  |
| 25   | 1"   | -16  | Q04011041A-16-16 | 1"     | 126.3         | ø55 | 50 |  |  |  |
| 25   | 1"   | -16  | Q04011041A-16-20 | 1.1/4" | 130           | ø55 | 50 |  |  |  |



## Q04011341A

NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |      |      | PART NUMBER      | THREAD      | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |             | A             | B   | C  |  |  |  |
| 10   | 3/8" | -06  | Q04011341A-06-06 | 3/8" NPTF   | 91.7          | ø30 | 27 |  |  |  |
| 10   | 3/8" | -06  | Q04011341A-06-08 | 1/2" NPTF   | 94            | ø30 | 27 |  |  |  |
| 12   | 1/2" | -08  | Q04011341A-08-08 | 1/2" NPTF   | 98            | ø38 | 34 |  |  |  |
| 12   | 1/2" | -08  | Q04011341A-08-12 | 3/4" NPTF   | 100           | ø38 | 34 |  |  |  |
| 16   | 5/8" | -10  | Q04011341A-10-12 | 3/4" NPTF   | 114.3         | ø40 | 36 |  |  |  |
| 19   | 3/4" | -12  | Q04011341A-12-12 | 3/4" NPTF   | 118           | ø45 | 41 |  |  |  |
| 19   | 3/4" | -12  | Q04011341A-12-16 | 1" NPTF     | 122           | ø45 | 41 |  |  |  |
| 25   | 1"   | -16  | Q04011341A-16-20 | 1.1/4" NPTF | 130           | ø55 | 50 |  |  |  |



## Q04011301A

SAE TERMINATION ENDS  
TO SAE J1926-1

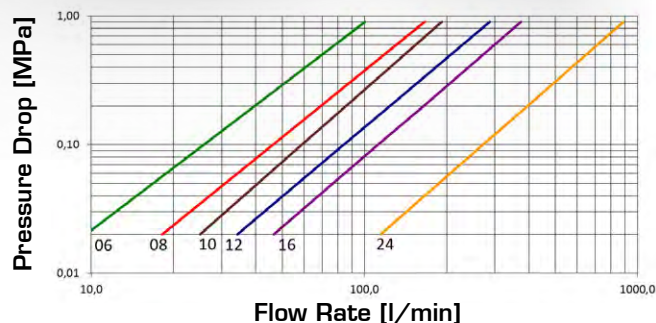
| SIZE |      |      | PART NUMBER      | THREAD        | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|---------------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash |                  |               | A             | B   | C  |  |  |  |
| 10   | 3/8" | -06  | Q04011301A-06-06 | 9/16"-18 UNF  | 91.7          | ø30 | 27 |  |  |  |
| 10   | 3/8" | -06  | Q04011301A-06-08 | 3/4" 16UNF    | 94.5          | ø30 | 27 |  |  |  |
| 12   | 1/2" | -08  | Q04011301A-08-10 | 7/8" -14 UNF  | 102           | ø38 | 34 |  |  |  |
| 12   | 1/2" | -08  | Q04011301A-08-12 | 1.1/16"-12UN  | 105           | ø38 | 34 |  |  |  |
| 19   | 3/4" | -12  | Q04011301A-12-16 | 1.5/16"-12UN  | 122.1         | ø45 | 41 |  |  |  |
| 25   | 1"   | -16  | Q04011301A-16-16 | 1.5/16"-12 UN | 126.3         | ø55 | 50 |  |  |  |



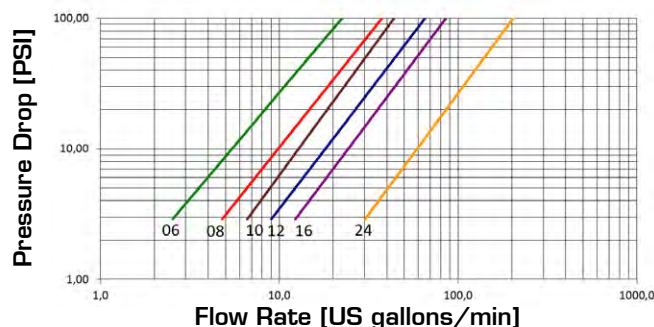


# FLAT FACE SCREW TYPE

Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |       |      | WORKING PRESSURE CONNECTED [Dynamic] |      | WORKING PRESSURE DISCONNECTED [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop |        | OIL SPILLAGE Connection/ Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE |
|------|-------|------|--------------------------------------|------|-----------------------------------------|------|----------------------------------------|--------|----------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------|
| DN   | inch  | Dash | MPa                                  | PSI  | MPa                                     | PSI  | l/min                                  | US GPM | cc.                                    | cubic inch | Male                   |       | Female |       | M & F |       |                                          |
|      |       |      | MPa                                  | PSI  | MPa                                     | PSI  |                                        |        |                                        |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                          |
| 10   | 3/8   | 06   | 42                                   | 6090 | 35                                      | 5075 | 40                                     | 10.6   | 0.007                                  | 0.0004     | 190                    | 27550 | 145    | 21025 | 175   | 25375 | Allowed                                  |
| 12.5 | 1/2   | 08   | 42                                   | 6090 | 35                                      | 5075 | 69                                     | 18.2   | 0.008                                  | 0.0005     | 180                    | 26100 | 145    | 21025 | 170   | 24650 | Allowed                                  |
| 16   | 5/8   | 10   | 42                                   | 6090 | 35                                      | 5075 | 86                                     | 22.7   | 0.008                                  | 0.0005     | 200                    | 29000 | 145    | 21025 | 185   | 26825 | Allowed                                  |
| 19   | 3/4   | 12   | 42                                   | 6090 | 35                                      | 5075 | 124                                    | 32.8   | 0.009                                  | 0.0005     | 145                    | 21025 | 145    | 21025 | 175   | 25375 | Allowed                                  |
| 25   | 1     | 16   | 38                                   | 5510 | 35                                      | 5075 | 165                                    | 43.6   | 0.02                                   | 0.0012     | 145                    | 21025 | 145    | 21025 | 155   | 22475 | Allowed                                  |
| 38   | 1 1/2 | 24   | 32                                   | 4640 | 32                                      | 4640 | 396                                    | 104.6  | 0.05                                   | 0.0031     | 130                    | 18850 | 130    | 18850 | 130   | 18850 | Allowed                                  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw coupling with quick connection system
- Working pressure 35MPa
- Triple valve system that guarantees connection under pressure safely
- Interchangeable according to Manuli Q.Safe specifications
- Sealing system with flat valve
- Polyurethane seals
- Compact design
- Wide range of termination ends
- E-Coat 1000 plating

## MATERIAL

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in polyurethane and NBR, back-up ring PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

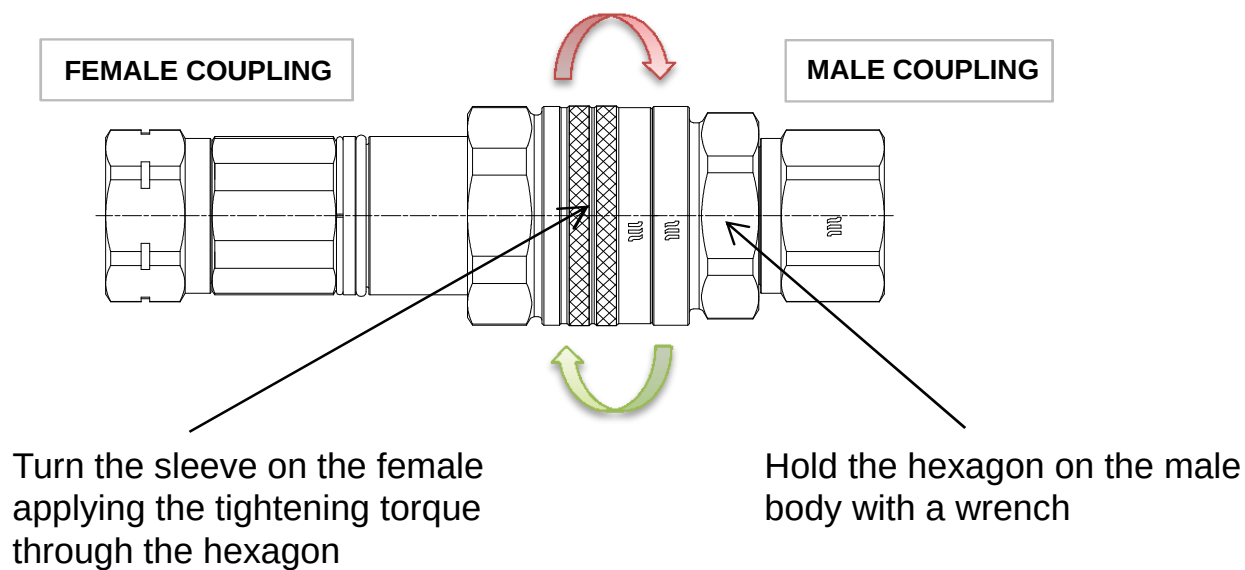
1,000,000 cycles at 120% of rated one (freq. 1Hz) in connected and disconnected conditions

## TEST SPECIFICATIONS

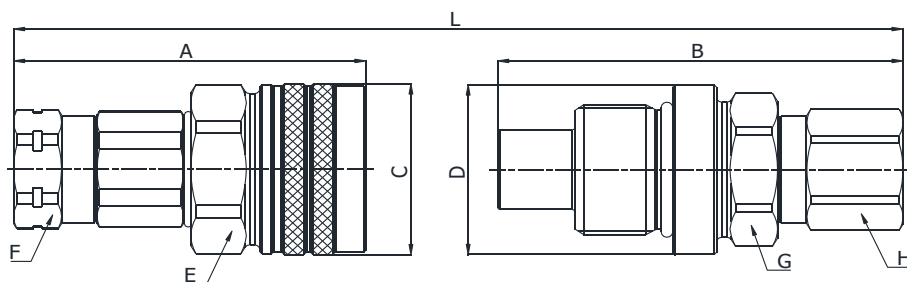
ISO 18869

# ASSEMBLY INSTRUCTIONS

## RECOMMENDED TIGHTENING TORQUES



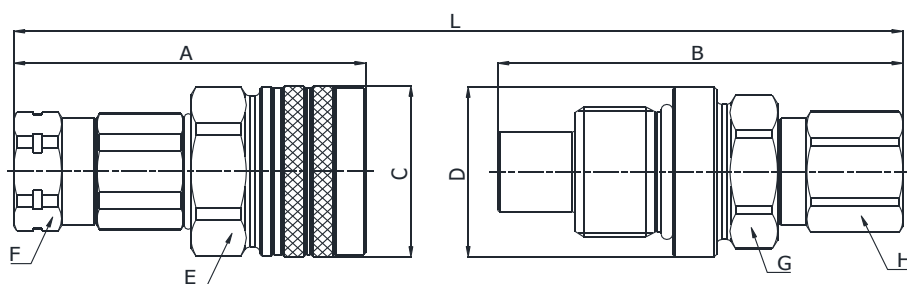
| SIZE |       |      | TIGHTENING TORQUE |
|------|-------|------|-------------------|
| DN   | Inch  | Dash | Nm                |
| 10   | 3/8   | 06   | 60                |
| 12.5 | 1/2   | 08   | 80                |
| 16   | 5/8   | 10   | 100               |
| 19   | 3/4   | 12   | 120               |
| 25   | 1     | 16   | 200               |
| 38   | 1 1/2 | 24   | 400               |



**Q06711041A**  
**Q06611041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |       |     |    |    |    |    |          |
|------|--------|------|------------------|------------------|--------|---------------|-------|-------|-----|----|----|----|----|----------|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B     | C     | D   | E  | F  | G  | H  | L        |
| 10   | 3/8"   | -06  | Q06711041A-06-06 | Q06611041A-06-06 | 3/8"   | 79.7          | Ø42,3 | 91.7  | Ø42 | 38 | 27 | 34 | 27 | A+B-17,1 |
| 10   | 3/8"   | -06  | Q06711041A-06-08 | Q06611041A-06-08 | 1/2"   | 82.7          | Ø42,3 | 94.5  | Ø42 | 38 | 27 | 34 | 27 | A+B-17,1 |
| 12.5 | 1/2"   | -08  | Q06711041A-08-08 | Q06611041A-08-08 | 1/2"   | 89.9          | Ø50,3 | 99.0  | Ø50 | 46 | 34 | 41 | 34 | A+B-18,4 |
| 12.5 | 1/2"   | -08  | Q06711041A-08-12 | Q06611041A-08-12 | 3/4"   | 91.9          | Ø50,3 | 102   | Ø50 | 46 | 34 | 41 | 34 | A+B-18,4 |
| 16   | 5/8"   | -10  | Q06711041A-10-12 | Q06611041A-10-12 | 3/4"   | 96.5          | 114.3 | Ø55,3 | Ø55 | 50 | 36 | 46 | 36 | A+B-18,9 |
| 19   | 3/4"   | -12  | Q06711041A-12-12 | Q06611041A-12-12 | 3/4"   | 109,9         | 118.7 | Ø60,3 | Ø60 | 55 | 41 | 50 | 41 | A+B-23,5 |
| 19   | 3/4"   | -12  | Q06711041A-12-16 | Q06611041A-12-16 | 1"     | 112.9         | 122.1 | Ø60,3 | Ø60 | 55 | 41 | 50 | 41 | A+B-23,5 |
| 25   | 1"     | -16  | Q06711041A-16-16 | Q06611041A-16-16 | 1"     | 121.3         | 126.3 | Ø70,3 | Ø70 | 65 | 50 | 60 | 50 | A+B-24,5 |
| 25   | 1"     | -16  | Q06711041A-16-20 | Q06611041A-16-20 | 1.1/4" | 124.3         | 130   | Ø70,3 | Ø70 | 65 | 50 | 60 | 50 | A+B-24,5 |
| 38   | 1 1/2" | -24  | Q06711041A-24-24 | Q06611041A-24-24 | 1.1/2" | 167,6         | 166   | Ø97,3 | Ø97 | 90 | 75 | 85 | 75 | A+B-31   |



**Q06711341A**  
**Q06611341A**

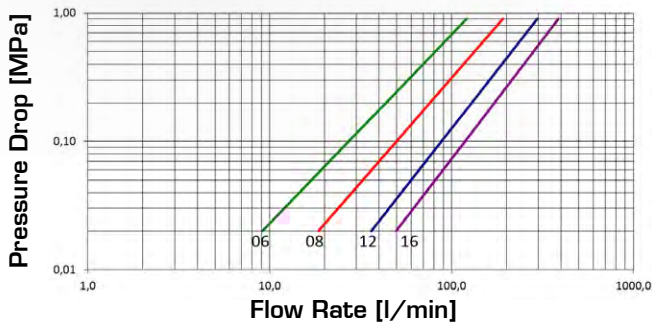
NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |        |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |       |       |     |    |    |    |    |          |
|------|--------|------|------------------|------------------|-------------|---------------|-------|-------|-----|----|----|----|----|----------|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |             | A             | B     | C     | D   | E  | F  | G  | H  | L        |
| 10   | 3/8"   | -06  | Q06711341A-06-06 | Q06611341A-06-06 | 3/8" NPTF   | 79.7          | Ø42,3 | 91.7  | Ø42 | 38 | 27 | 34 | 27 | A+B-17,1 |
| 10   | 3/8"   | -06  | Q06711341A-06-08 | Q06611341A-06-08 | 1/2" NPTF   | 82.7          | Ø42,3 | 94.5  | Ø42 | 38 | 27 | 34 | 27 | A+B-17,1 |
| 12.5 | 1/2"   | -08  | Q06711341A-08-08 | Q06611341A-08-08 | 1/2" NPTF   | 89.9          | Ø50,3 | 99.0  | Ø50 | 46 | 34 | 41 | 34 | A+B-18,4 |
| 12.5 | 1/2"   | -08  | Q06711341A-08-12 | Q06611341A-08-12 | 3/4" NPTF   | 91.9          | Ø50,3 | 102   | Ø50 | 46 | 34 | 41 | 34 | A+B-18,4 |
| 16   | 5/8"   | -10  | Q06711341A-10-12 | Q06611341A-10-12 | 3/4" NPTF   | 96.5          | Ø55,3 | 114.3 | Ø55 | 50 | 36 | 46 | 36 | A+B-18,9 |
| 19   | 3/4"   | -12  | Q06711341A-12-12 | Q06611341A-12-12 | 3/4" NPTF   | 109.9         | Ø60,3 | 118.7 | Ø60 | 55 | 41 | 50 | 41 | A+B-23,5 |
| 19   | 3/4"   | -12  | Q06711341A-12-16 | Q06611341A-12-16 | 1" NPTF     | 112.9         | Ø60,3 | 122.1 | Ø60 | 55 | 41 | 50 | 41 | A+B-23,5 |
| 25   | 1"     | -16  | Q06711341A-16-16 | Q06611341A-16-16 | 1" NPTF     | 121.3         | Ø70,3 | 126.3 | Ø70 | 65 | 50 | 60 | 50 | A+B-24,5 |
| 25   | 1"     | -16  | Q06711341A-16-20 | Q06611341A-16-20 | 1-1/4" NPTF | 124.3         | Ø70,3 | 130   | Ø70 | 65 | 50 | 60 | 50 | A+B-24,5 |
| 38   | 1-1/2" | -24  | Q06711341A-24-24 | Q06611341A-24-24 | 1-1/2" NPTF | 167.6         | Ø97,3 | 166   | Ø97 | 90 | 75 | 85 | 75 | A+B-31   |

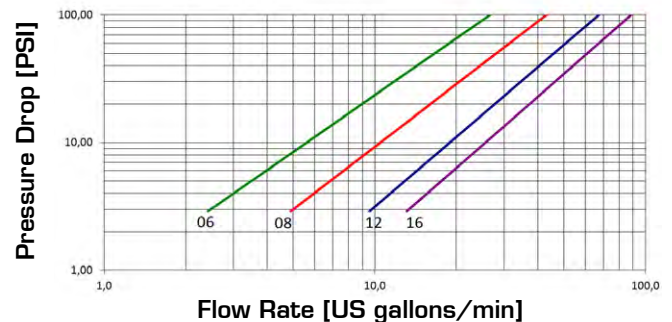
# FLAT FACE FOR MULTICONNECTORS



Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |      |      | MPa |      | MPa |      | FLOW RATE |        | OIL SPILLAGE |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE |
|------|------|------|-----|------|-----|------|-----------|--------|--------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------|
| DN   | inch | Dash | MPa | PSI  | MPa | PSI  | l/min     | US GPM | cc.          | cubic inch | Male                   |       | Female |       | M & F |       |                                          |
|      |      |      |     |      |     |      |           |        |              |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                          |
| 10   | 3/8" | 06   | 35  | 5075 | 35  | 5075 | 44        | 11.6   | 0.007        | 0.0004     | 170                    | 24650 | 140    | 20300 | 180   | 26100 | Allowed                                  |
| 12.5 | 1/2" | 08   | 35  | 5075 | 35  | 5075 | 76        | 20.1   | 0.008        | 0.0005     | 170                    | 24650 | 140    | 20300 | 180   | 26100 | Allowed                                  |
| 19   | 3/4" | 12   | 35  | 5075 | 35  | 5075 | 129       | 34.1   | 0.009        | 0.0005     | 140                    | 20300 | 140    | 20300 | 160   | 23200 | Allowed                                  |
| 25   | 1"   | 16   | 35  | 5075 | 35  | 5075 | 172       | 45.4   | 0.02         | 0.0012     | 160                    | 23200 | 150    | 21750 | 160   | 23200 | Allowed                                  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Flat face cartridges for multiconnections.
- Working pressure 35 MPa in connected and disconnected conditions.
- Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection.
- Shut-off by flat valve
- Polyurethane seals
- 1,000,000 cycles at 120% of rated one (freq. 1Hz – connected and disconnected conditions)
- E-Coat 1000 plating

## MATERIAL

Female & male couplings in high grade carbon steel.  
Male vs. female sealing system in Polyurethane compound; other seals in NBR, back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

1,000,000 cycles at 120% of rated one (freq. 1Hz) in connected and disconnected conditions

## TEST SPECIFICATIONS

ISO 18869

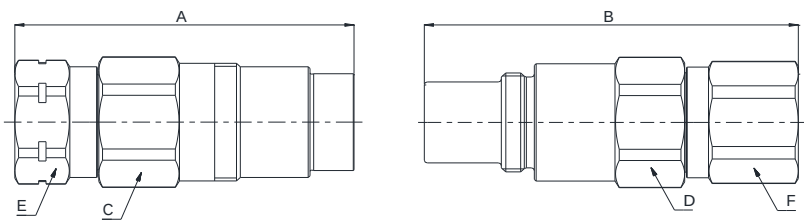
**NOTE**

*This product is intended as a replacement part for the couplings used on the **MQS-MC** type Multiconnector product range.*

*Instructions on removal and fitting of these components can be found in the **Appendices**.*

**Q06811041A**  
**Q06911041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

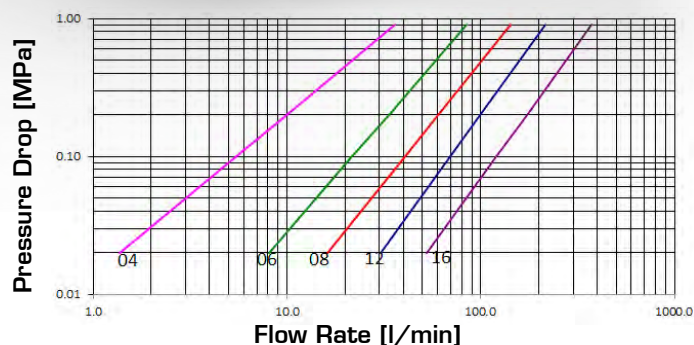


| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |    |    |    |    |  |
|------|------|------|------------------|------------------|--------|---------------|-------|----|----|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B     | C  | D  | E  | F  |  |
| 10   | 3/8" | -06  | Q06911041A-06-06 | Q06811041A-06-06 | 3/8"   | 82.3          | 93.7  | 30 | 30 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q06911041A-06-08 | Q06811041A-06-08 | 1/2"   | 85.3          | 96.5  | 30 | 30 | 27 | 27 |  |
| 12.5 | 1/2" | -08  | Q06911041A-08-08 | Q06811041A-08-08 | 1/2"   | 92.5          | 102   | 36 | 36 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q06911041A-08-12 | Q06811041A-08-12 | 3/4"   | 94.5          | 105   | 36 | 36 | 34 | 34 |  |
| 20   | 3/4" | -12  | Q06911041A-12-12 | Q06811041A-12-12 | 3/4"   | 108           | 118.7 | 41 | 42 | 41 | 41 |  |
| 25   | 1"   | -16  | Q06911041A-16-16 | Q06811041A-16-16 | 1"     | 119.4         | 126.3 | 50 | 50 | 50 | 50 |  |

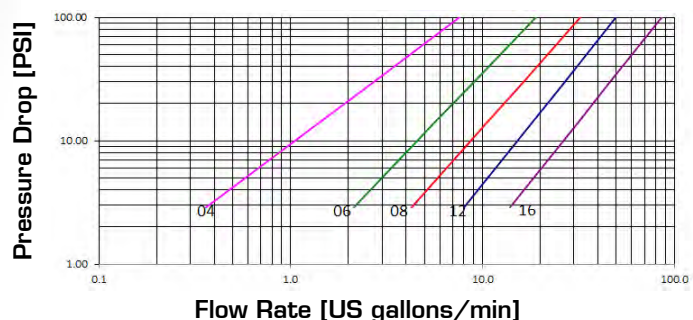
## SCREW TYPE



Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |      |      | MPa |      | FLOW RATE |        | OIL SPILLAGE<br>Connection/<br>Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE |  |
|------|------|------|-----|------|-----------|--------|----------------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------------|--|
| DN   | inch | Dash | MPa | PSI  | l/min     | US GPM | cc.                                          | cubic inch | Male                   |       | Female |       | M & F |       |                                                |  |
|      |      |      |     |      |           |        |                                              |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                                |  |
| 6.3  | 1/4  | 04   | 35  | 5075 | 10        | 2.6    | 0.8                                          | 0.049      | 145                    | 21025 | 190    | 27500 | 190   | 27550 | Allowed max. 12 MPa                            |  |
| 10   | 3/8  | 06   | 35  | 5075 | 34        | 9.0    | 1.5                                          | 0.092      | 150                    | 21750 | 160    | 23200 | 150   | 21750 | Allowed max. 10 MPa                            |  |
| 12.5 | 1/2  | 08   | 30  | 4350 | 61        | 16.1   | 2                                            | 0.122      | 130                    | 18850 | 140    | 20300 | 140   | 20300 | Allowed max. 10 MPa                            |  |
| 20   | 3/4  | 12   | 30  | 4350 | 100       | 26.4   | 5                                            | 0.305      | 130                    | 18850 | 130    | 18850 | 140   | 20300 | Allowed max. 10 MPa                            |  |
| 25   | 1    | 16   | 25  | 3625 | 173       | 45.7   | 9                                            | 0.549      | 110                    | 15950 | 110    | 15950 | 110   | 15950 | Allowed max. 10 MPa                            |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw-type couplings specially designed for heavy duty, high pressure, pressure impulse applications such as hammers, attachments, rock crushers, etc.
- Connection and disconnection is made by screwing the sleeve, also possible with residual pressure in the line
- Connection secured on the thread between the sleeve and the male coupling
- Shut-off by poppet valve
- Hexagon around the male insert to be tightened up or released for maintenance
- Interchangeable with similar products available on the market
- Up to size DN 20 ISO 14541 compliant

## MATERIAL

Female coupling in steel, male couplings high standard carbon steel. Carbonitrided valve, springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

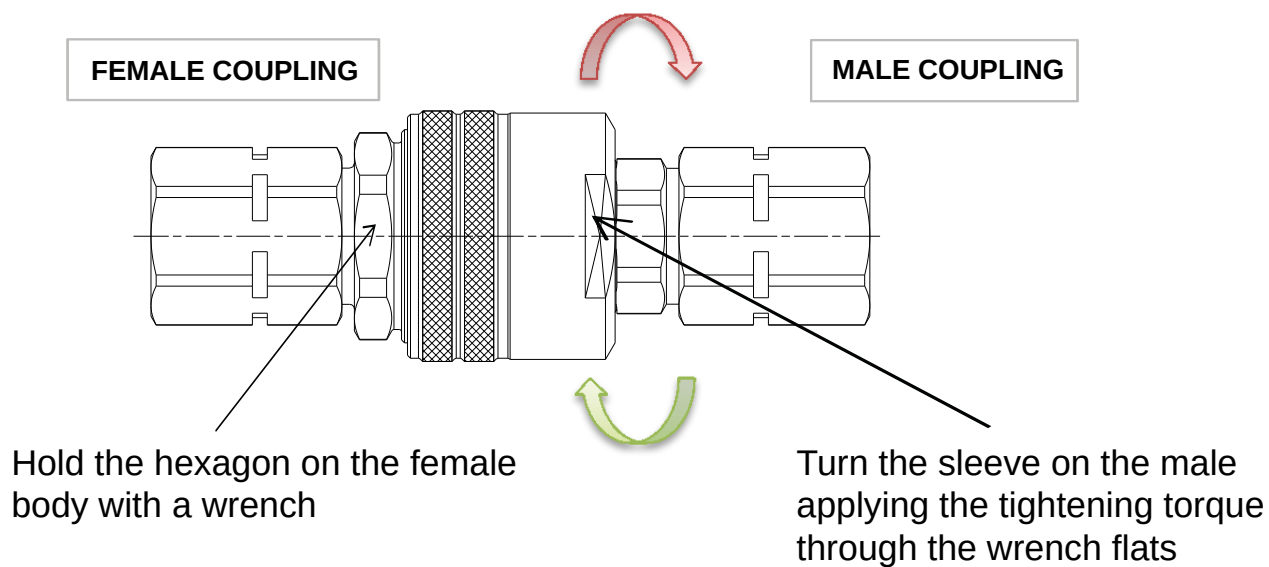
200,000 cycles at 133% of the rated one (freq. 1Hz) disconnected; 500,000 connected

## TEST SPECIFICATIONS

ISO 18869

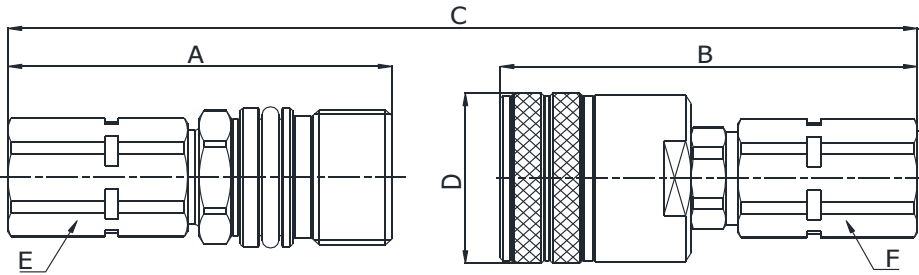
# ASSEMBLY INSTRUCTIONS

## RECOMMENDED TIGHTENING TORQUES



| SIZE |      |      | TIGHTENING TORQUE |
|------|------|------|-------------------|
| DN   | Inch | Dash | Nm                |
| 6.3  | 1/4" | -04  | 25                |
| 10   | 3/8" | -06  | 40                |
| 12.5 | 1/2" | -08  | 70                |
| 20   | 3/4" | -12  | 100               |
| 25   | 1"   | -16  | 150               |

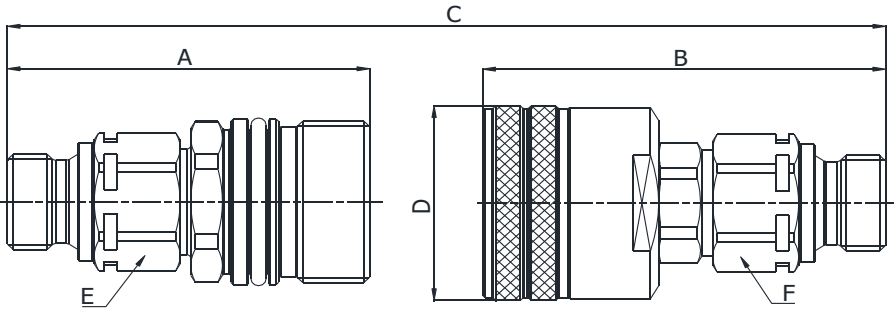




**Q05211041A**  
**Q05111041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |          |     |    |    |  |  |
|------|------|------|------------------|------------------|--------|---------------|-------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B     | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q05211041A-04-04 | Q05111041A-04-04 | 1/4"   | 61.5          | 65.5  | A+B-24,5 | ø30 | 19 | 19 |  |  |
| 10   | 3/8" | -06  | Q05211041A-06-04 | Q05111041A-06-04 | 1/4"   | 68            | 74    | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 10   | 3/8" | -06  | Q05211041A-06-06 | Q05111041A-06-06 | 3/8"   | 69.5          | 75.5  | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q05211041A-08-06 | Q05111041A-08-06 | 3/8"   | 66.5          | 74.5  | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211041A-08-08 | Q05111041A-08-08 | 1/2"   | 69.5          | 77.5  | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 20   | 3/4" | -12  | Q05211041A-12-08 | Q05111041A-12-08 | 1/2"   | 80.8          | 89.3  | A+B-31   | ø49 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q05211041A-12-12 | Q05111041A-12-12 | 3/4"   | 82.8          | 91.3  | A+B-31   | ø49 | 34 | 34 |  |  |
| 25   | 1"   | -16  | Q05211041A-16-08 | Q05111041A-16-08 | 1/2"   | 92.3          | 99.3  | A+B-34,5 | ø56 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q05211041A-16-12 | Q05111041A-16-12 | 3/4"   | 92.3          | 99.3  | A+B-34,5 | ø56 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q05211041A-16-16 | Q05111041A-16-16 | 1"     | 95.3          | 102.3 | A+B-34,5 | ø56 | 41 | 41 |  |  |



**Q05211050A**  
**Q05111050A**

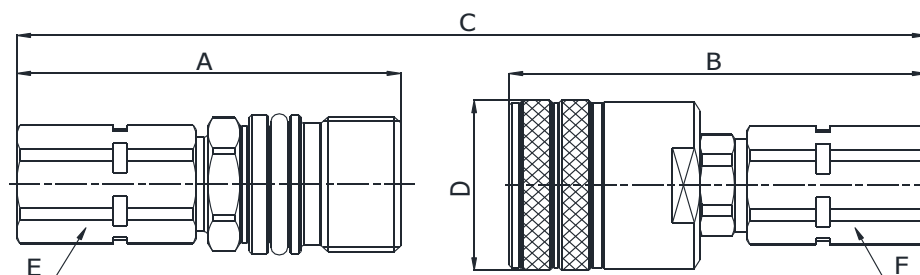
BSP TERMINATION ENDS  
TO ISO 8434-6

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |  |  |
| 12.5 | 1/2" | -08  | Q05211050A-08-06 | Q05111050A-08-06 | 3/8"   | 69.2          | 77.2 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211050A-08-08 | Q05111050A-08-08 | 1/2"   | 71.7          | 79.7 | A+B-26,5 | ø42 | 27 | 27 |  |  |

# Q05211141A

# Q05111141A

METRIC TERMINATION ENDS  
TO ISO 3852-1 X TYPE

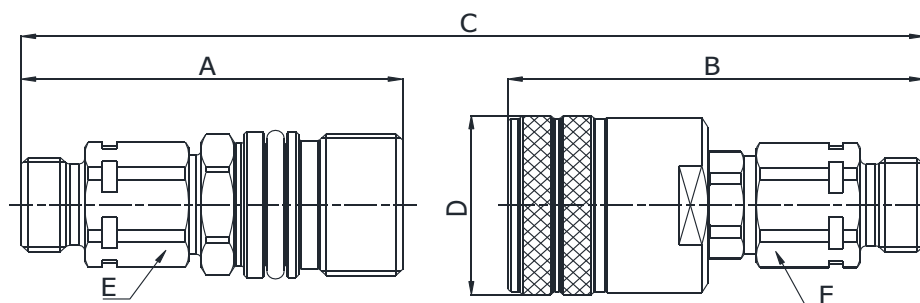


| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 10   | 3/8" | -06  | Q05211141A-06-16 | Q05111141A-06-16 | M16x1,5 | 69.5          | 75.5 | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q05211141A-08-18 | Q05111141A-08-18 | M18x1,5 | 66.5          | 74.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211141A-08-22 | Q05111141A-08-22 | M22x1,5 | 68.5          | 76.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |

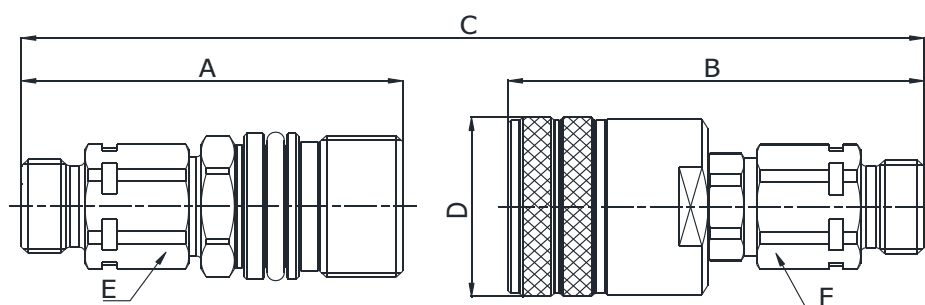
# Q05211110A

# Q05111110A

METRIC TERMINATION END  
TO ISO 8434-1  
L SERIES



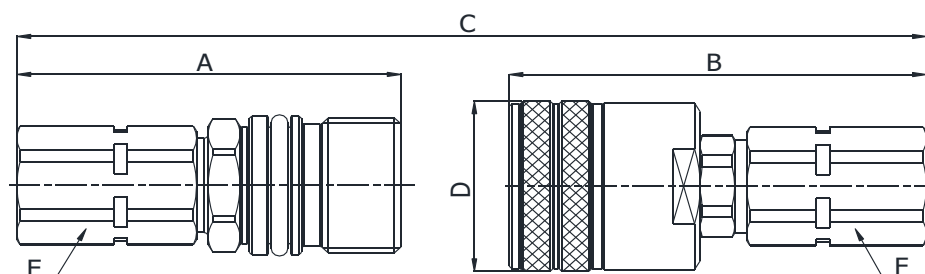
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q05211110A-04-12 | Q05111110A-04-12 | M12x1,5 | 59.5          | 63.5 | A+B-24,5 | ø30 | 19 | 19 |  |  |
| 6.3  | 1/4" | -04  | Q05211110A-04-14 | Q05111110A-04-14 | M14x1,5 | 59.5          | 63.5 | A+B-24,5 | ø30 | 19 | 19 |  |  |
| 10   | 3/8" | -06  | Q05211110A-06-12 | Q05211110A-06-12 | M12x1,5 | 66            | 72   | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 10   | 3/8" | -06  | Q05211110A-06-14 | Q05211110A-06-14 | M14x1,5 | 66            | 72   | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 10   | 3/8" | -06  | Q05211110A-06-16 | Q05211110A-06-16 | M16x1,5 | 66            | 72   | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 10   | 3/8" | -06  | Q05211110A-06-18 | Q05211110A-06-18 | M18x1,5 | 66            | 72   | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q05211110A-08-14 | Q05111110A-08-14 | M14x1,5 | 65.5          | 73.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211110A-08-16 | Q05111110A-08-16 | M16x1,5 | 66.5          | 74.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211110A-08-18 | Q05111110A-08-18 | M18x1,5 | 65.5          | 73.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211110A-08-22 | Q05111110A-08-22 | M22x1,5 | 66.5          | 74.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211110A-08-26 | Q05111110A-08-26 | M26x1,5 | 66.5          | 74.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 20   | 3/4" | -12  | Q05211110A-12-18 | Q05111110A-12-18 | M18x1,5 | 80,8          | 89,3 | A+B-31   | ø49 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q05211110A-12-22 | Q05111110A-12-22 | M22x1,5 | 80,8          | 89,3 | A+B-31   | ø49 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q05211110A-12-26 | Q05111110A-12-26 | M26x1,5 | 80,8          | 89,3 | A+B-31   | ø49 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q05211110A-12-30 | Q05111110A-12-30 | M30x2   | 82,8          | 91,3 | A+B-31   | ø49 | 34 | 34 |  |  |
| 25   | 1"   | -16  | Q05211110A-16-26 | Q05111110A-16-26 | M26x1,5 | 90,3          | 97,3 | A+B-34,5 | ø56 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q05211110A-16-30 | Q05111110A-16-30 | M30x2   | 92,3          | 99,3 | A+B-34,5 | ø56 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q05211110A-16-36 | Q05111110A-16-36 | M36x2   | 92,3          | 99,3 | A+B-34,5 | ø56 | 41 | 41 |  |  |



## Q05211120A Q05111120A

METRIC TERMINATION END  
TO ISO 8434-1  
S SERIES

| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |       |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|-------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B     | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q05211120A-04-16 | Q05111120A-04-16 | M16x1,5 | 61.5          | 65.5  | A+B-24,5 | ø30 | 19 | 19 |  |  |
| 10   | 3/8" | -06  | Q05211120A-06-16 | Q05111120A-06-16 | M16x1,5 | 67            | 73    | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 10   | 3/8" | -06  | Q05211120A-06-18 | Q05111120A-06-18 | M18x1,5 | 67            | 73    | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q05211120A-08-18 | Q05111120A-08-18 | M18x1,5 | 66.5          | 74.5  | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211120A-08-20 | Q05111120A-08-20 | M20x1,5 | 66.5          | 74.5  | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211120A-08-24 | Q05111120A-08-24 | M24x1,5 | 68.5          | 76.5  | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 20   | 3/4" | -12  | Q05211120A-12-20 | Q05111120A-12-20 | M20x1,5 | 80.8          | 89.3  | A+B-31   | ø49 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q05211120A-12-24 | Q05111120A-12-24 | M24x1,5 | 82.8          | 91.3  | A+B-31   | ø49 | 34 | 34 |  |  |
| 20   | 3/4" | -12  | Q05211120A-12-30 | Q05111120A-12-30 | M30x2   | 84.8          | 93.3  | A+B-31   | ø49 | 34 | 34 |  |  |
| 25   | 1"   | -16  | Q05211120A-16-30 | Q05111120A-16-30 | M30x2   | 94,3          | 101.3 | A+B-34,5 | ø56 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q05211120A-16-36 | Q05111120A-16-36 | M36x2   | 96,3          | 103.3 | A+B-34,5 | ø56 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q05211120A-16-42 | Q05111120A-16-42 | M42x2   | 98,3          | 105.3 | A+B-34,5 | ø56 | 41 | 41 |  |  |



## Q05211191A Q05111191A

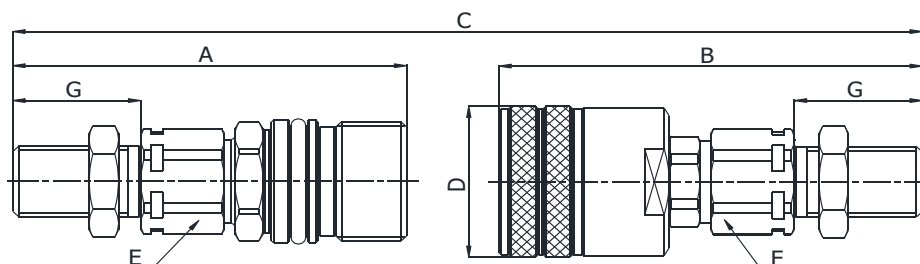
METRIC TERMINATION ENDS  
TO ISO 6149-1

| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B    | C        | D   | E  | F  |  |  |
| 12.5 | 1/2" | -08  | Q05211191A-08-16 | Q05111191A-08-16 | M16x1,5 | 67            | 75   | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211191A-08-18 | Q05111191A-08-18 | M18x1,5 | 68.5          | 76.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |

# Q05211770B

# Q05111770B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD L SERIES



| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |       |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|-------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B     | C        | D   | E  | F  | G  |
| 6.3  | 1/4" | -04  | Q05211770B-04-12 | Q05111770B-04-12 | M12x1,5 | 74.5          | 78.5  | A+B-24,5 | ø30 | 19 | 19 | 25 |
| 6.3  | 1/4" | -04  | Q05211770B-04-14 | Q05111770B-04-14 | M14x1,5 | 74.5          | 78.5  | A+B-24,5 | ø30 | 19 | 19 | 25 |
| 10   | 3/8" | -06  | Q05211770B-06-12 | Q05111770B-06-12 | M12x1,5 | 81            | 87    | A+B-26,5 | ø34 | 22 | 22 | 25 |
| 10   | 3/8" | -06  | Q05211770B-06-14 | Q05111770B-06-14 | M14x1,5 | 80            | 86    | A+B-26,5 | ø34 | 22 | 22 | 25 |
| 10   | 3/8" | -06  | Q05211770B-06-16 | Q05111770B-06-16 | M16x1,5 | 80            | 86    | A+B-26,5 | ø34 | 22 | 22 | 26 |
| 10   | 3/8" | -06  | Q05211770B-06-18 | Q05111770B-06-18 | M18x1,5 | 80            | 86    | A+B-26,5 | ø34 | 22 | 22 | 26 |
| 12.5 | 1/2" | -08  | Q05211770B-08-14 | Q05111770B-08-14 | M14x1,5 | 80.5          | 88.5  | A+B-26,5 | ø42 | 27 | 27 | 25 |
| 12.5 | 1/2" | -08  | Q05211770B-08-16 | Q05111770B-08-16 | M16x1,5 | 80.5          | 88.5  | A+B-26,5 | ø42 | 27 | 27 | 26 |
| 12.5 | 1/2" | -08  | Q05211770B-08-18 | Q05111770B-08-18 | M18x1,5 | 80.5          | 88.5  | A+B-26,5 | ø42 | 27 | 27 | 26 |
| 12.5 | 1/2" | -08  | Q05211770B-08-22 | Q05111770B-08-22 | M22x1,5 | 81.5          | 89.5  | A+B-26,5 | ø42 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q05211770B-08-26 | Q05111770B-08-26 | M26x1,5 | 82.5          | 90.5  | A+B-26,5 | ø42 | 30 | 30 | 29 |
| 20   | 3/4" | -12  | Q05211770B-12-18 | Q05111770B-12-18 | M18x1,5 | 94.8          | 103.3 | A+B-31   | ø49 | 34 | 34 | 26 |
| 20   | 3/4" | -12  | Q05211770B-12-22 | Q05111770B-12-22 | M22x1,5 | 95.8          | 104.3 | A+B-31   | ø49 | 34 | 34 | 27 |
| 20   | 3/4" | -12  | Q05211770B-12-26 | Q05111770B-12-26 | M26x1,5 | 96.8          | 105.3 | A+B-31   | ø49 | 34 | 34 | 29 |
| 20   | 3/4" | -12  | Q05211770B-12-30 | Q05111770B-12-30 | M30x2   | 100.8         | 109.3 | A+B-31   | ø49 | 34 | 34 | 32 |
| 25   | 1"   | -16  | Q05211770B-16-26 | Q05111770B-16-26 | M26x1,5 | 106.3         | 113.3 | A+B-34,5 | ø56 | 41 | 41 | 29 |
| 25   | 1"   | -16  | Q05211770B-16-30 | Q05111770B-16-30 | M30x2   | 110.3         | 117.3 | A+B-34,5 | ø56 | 41 | 41 | 32 |
| 25   | 1"   | -16  | Q05211770B-16-36 | Q05111770B-16-36 | M36x2   | 110.3         | 117.3 | A+B-34,5 | ø56 | 41 | 41 | 32 |

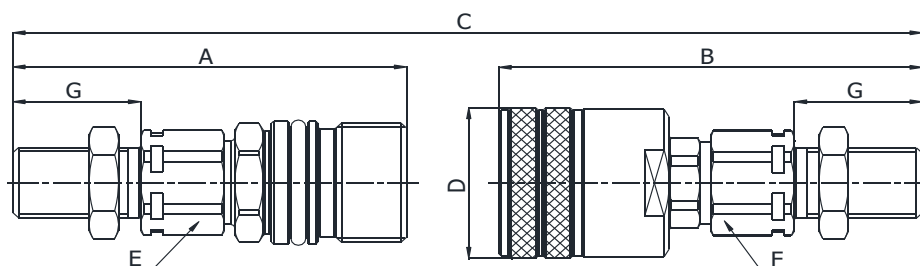
Q.SAFE

435

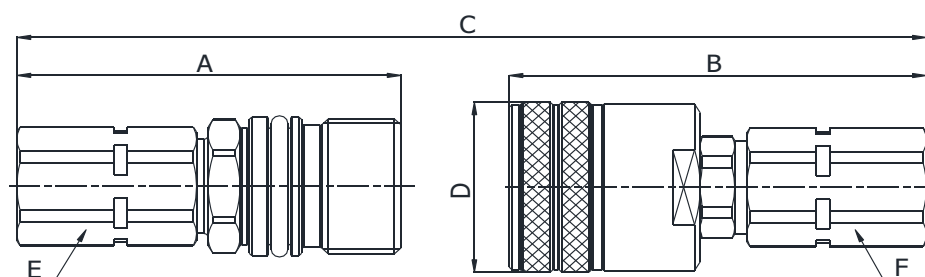
# Q05211870B

# Q05111870B

METRIC TERMINATION END  
TO ISO 8434-1  
BULKHEAD S SERIES



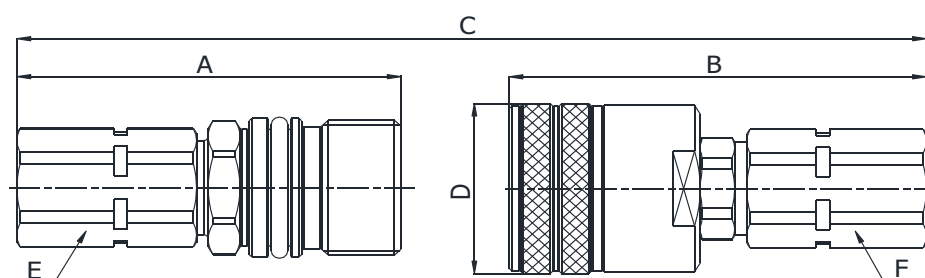
| SIZE |      |      | PART NUMBER      |                  | THREAD  | DIMENSIONS mm |       |          |     |    |    |    |
|------|------|------|------------------|------------------|---------|---------------|-------|----------|-----|----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |         | A             | B     | C        | D   | E  | F  | G  |
| 6.3  | 1/4" | -04  | Q05211870B-04-14 | Q05111870B-04-14 | M14x1,5 | 75.5          | 79.5  | A+B-24,5 | ø30 | 19 | 19 | 27 |
| 6.3  | 1/4" | -04  | Q05211870B-04-16 | Q05111870B-04-16 | M16x1,5 | 76.5          | 77.5  | A+B-24,5 | ø30 | 19 | 19 | 27 |
| 10   | 3/8" | -06  | Q05211870B-06-16 | Q05111870B-06-16 | M16x1,5 | 81            | 87    | A+B-26,5 | ø34 | 22 | 22 | 27 |
| 10   | 3/8" | -06  | Q05211870B-06-18 | Q05111870B-06-18 | M18x1,5 | 81            | 87    | A+B-26,5 | ø34 | 22 | 22 | 27 |
| 12.5 | 1/2" | -08  | Q05211870B-08-18 | Q05111870B-08-18 | M18x1,5 | 81.5          | 89.5  | A+B-26,5 | ø42 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q05211870B-08-20 | Q05111870B-08-20 | M20x1,5 | 81.5          | 89.5  | A+B-26,5 | ø42 | 27 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q05211870B-08-24 | Q05111870B-08-24 | M24x1,5 | 83.5          | 91.5  | A+B-26,5 | ø42 | 27 | 27 | 29 |
| 20   | 3/4" | -12  | Q05211870B-12-24 | Q05111870B-12-24 | M24x1,5 | 97.8          | 106.3 | A+B-31   | ø49 | 34 | 34 | 29 |
| 20   | 3/4" | -12  | Q05211870B-12-30 | Q05111870B-12-30 | M30x2   | 102.8         | 111.3 | A+B-31   | ø49 | 34 | 34 | 34 |
| 25   | 1"   | -16  | Q05211870B-16-30 | Q05111870B-16-30 | M30x2   | 112.3         | 119.3 | A+B-34,5 | ø56 | 41 | 41 | 34 |
| 25   | 1"   | -16  | Q05211870B-16-36 | Q05111870B-16-36 | M36x2   | 114.3         | 121.3 | A+B-34,5 | ø56 | 41 | 41 | 36 |
| 25   | 1"   | -16  | Q05211870B-16-42 | Q05111870B-16-42 | M42x2   | 116.3         | 123.3 | A+B-34,5 | ø56 | 41 | 41 | 40 |



**Q05211341A**  
**Q05111341A**

NPTF TERMINATION END  
TO ANSI B 1.20.3

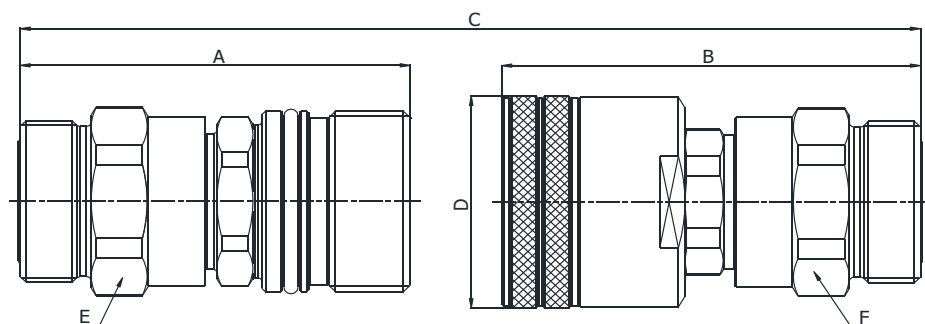
| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |       |          |     |    |    |  |  |
|------|------|------|------------------|------------------|-----------|---------------|-------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B     | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q05211341A-04-04 | Q05111341A-04-04 | 1/4" NPTF | 61.5          | 65.5  | A+B-24,5 | ø30 | 19 | 19 |  |  |
| 10   | 3/8" | -06  | Q05211341A-06-06 | Q05111341A-06-06 | 3/8" NPTF | 69.5          | 75.5  | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q05211341A-08-08 | Q05111341A-08-08 | 1/2" NPTF | 69.5          | 77.5  | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 20   | 3/4" | -12  | Q05211341A-12-12 | Q05111341A-12-12 | 3/4" NPTF | 82.8          | 91.3  | A+B-31   | ø49 | 34 | 34 |  |  |
| 25   | 1"   | -16  | Q05211341A-16-16 | Q05111341A-16-16 | 1" NPTF   | 95.3          | 102.3 | A+B-34,5 | ø56 | 41 | 41 |  |  |



**Q05211301A**  
**Q05111301A**

SAE TERMINATION END  
TO SAE J1926-1

| SIZE |      |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|-------------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |             | A             | B    | C        | D   | E  | F  |  |  |
| 10   | 3/8" | -06  | Q05211301A-06-06 | Q05111301A-06-06 | 9/16"-18UNF | 69.5          | 75.5 | A+B-26,5 | ø34 | 22 | 22 |  |  |
| 12.5 | 1/2" | -08  | Q05211301A-08-08 | Q05111301A-08-08 | 3/4"-16 UNF | 69            | 77   | A+B-26,5 | ø42 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q05211301A-08-10 | Q05111301A-08-10 | 7/8"-14 UNF | 71.5          | 79.5 | A+B-26,5 | ø42 | 27 | 27 |  |  |



**Q05211240A**  
**Q05111240A**

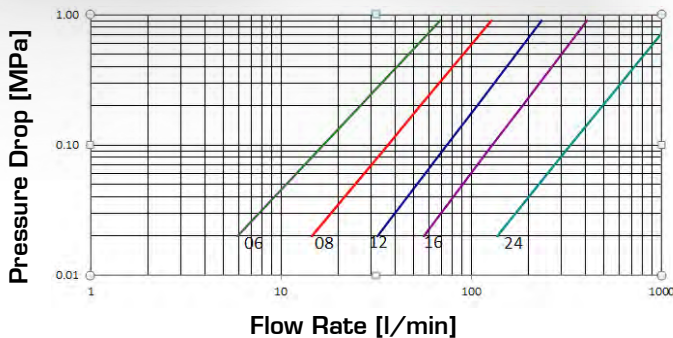
ORFS TERMINATION ENDS  
TO ISO 8434-3

| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |       |          |     |    |    |  |  |
|------|------|------|------------------|------------------|---------------|---------------|-------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B     | C        | D   | E  | F  |  |  |
| 25   | 1"   | -16  | Q05211240A-16-16 | Q05111240A-16-16 | 1.7/16"-12 UN | 98.3          | 102.8 | A+B-34,5 | ø56 | 46 | 46 |  |  |
| 25   | 1"   | -16  | Q05211240A-16-20 | Q05111240A-16-20 | 1.11/16"-12UN | 95.8          | 102.8 | A+B-34,5 | ø56 | 46 | 46 |  |  |

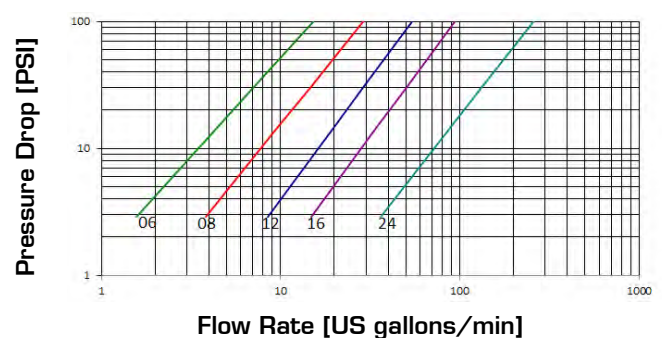
# SCREW TYPE HEAVY DUTY



Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRES-SURE [Dynamic]                                                         |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 10                                                                                  | ⅜    | 06   | 35                                                                                  | 5075 | 26                                                                                  | 6.9    | 1.5                                                                                 | 0.092      | 150                                                                                   | 21750 | 160    | 23200 | 180   | 26100 | Allowed                                                                               |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 54                                                                                  | 14.3   | 2                                                                                   | 0.122      | 130                                                                                   | 18850 | 140    | 20300 | 140   | 20300 | Allowed                                                                               |  |
| 20                                                                                  | ¾    | 12   | 30                                                                                  | 4350 | 107                                                                                 | 28.3   | 5                                                                                   | 0.305      | 130                                                                                   | 17750 | 130    | 18850 | 140   | 20300 | Allowed                                                                               |  |
| 25                                                                                  | 1    | 16   | 25                                                                                  | 3625 | 186                                                                                 | 49.1   | 9                                                                                   | 0.549      | 110                                                                                   | 15950 | 110    | 15950 | 110   | 15950 | Allowed                                                                               |  |
| 38                                                                                  | 1½   | 24   | 30                                                                                  | 4350 | 492                                                                                 | 130.0  | 25                                                                                  | 1.526      | 130                                                                                   | 18850 | 125    | 18125 | 130   | 18850 | Allowed                                                                               |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw-type couplings specially designed for heavy duty applications such as hammers, attachments, rock crushers, etc.
- Thanks to strengthened internal components this series is highly resistant against backflow, flow impulses and peaks, pressure impulses, vibration and hose bending
- Connection and disconnection is made by screwing the sleeve, also possible with rated pressure in the line
- Connection secured on the thread between the sleeve and the male coupling
- Shut-off by poppet valve
- Hexagonal profile of external sleeve for an easy connection and disconnection in high pressure conditions
- Interchangeable with MQS-SG series and similar products available on the market
- Up to size DN 20 ISO 14541 compliant

## MATERIAL

Female and male coupling in high standard steel. Carbonitrided valve, springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
Specific seals available in case of higher temperatures

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

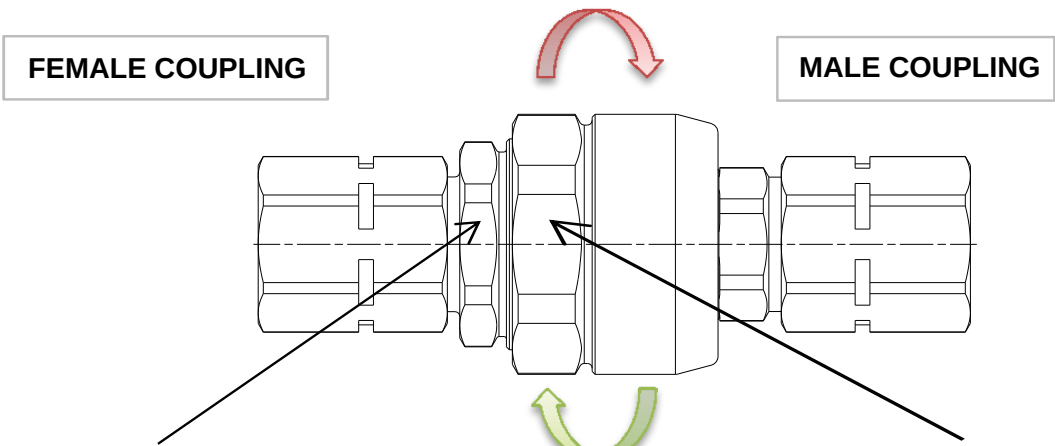
200,000 cycles at 133% of the rated one (freq. 1Hz)  
disconnected; 500,000 connected

## TEST SPECIFICATIONS

ISO 18869

# ASSEMBLY INSTRUCTIONS

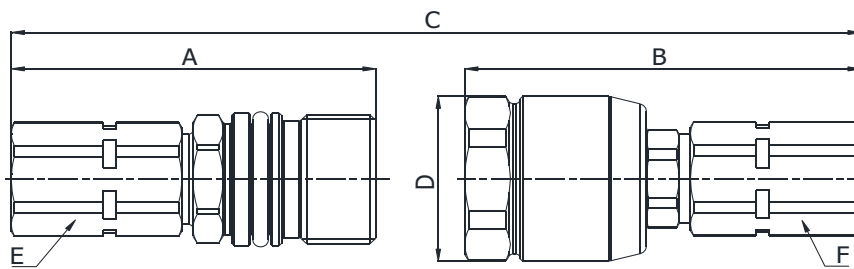
## RECOMMENDED TIGHTENING TORQUES



Hold the hexagon on the female body with a wrench

Turn the sleeve on the male applying the tightening torque through the hexagon

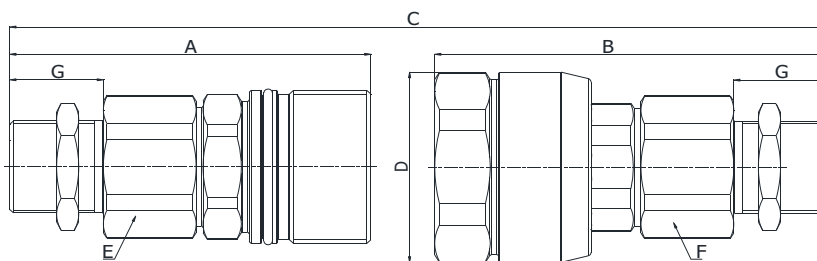
| SIZE |        |      | TIGHTENING TORQUE |
|------|--------|------|-------------------|
| DN   | Inch   | Dash | Nm                |
| 10   | 3/8"   | -06  | 50                |
| 12.5 | 1/2"   | -08  | 80                |
| 20   | 3/4"   | -12  | 120               |
| 25   | 1"     | -16  | 180               |
| 38   | 1-1/2" | -24  | 300               |



**Q06211041A**  
**Q06111041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |          |       |    |    |
|------|--------|------|------------------|------------------|--------|---------------|-------|----------|-------|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B     | C        | D     | E  | F  |
| 10   | 3/8"   | -06  | Q06211041A-06-04 | Q06111041A-06-04 | 1/4"   | 68            | 74    | A+B-26,5 | ø34,7 | 22 | 22 |
| 10   | 3/8"   | -06  | Q06211041A-06-06 | Q06111041A-06-06 | 3/8"   | 69.5          | 75.5  | A+B-26,5 | ø34,7 | 22 | 22 |
| 12.5 | 1/2"   | -08  | Q06211041A-08-06 | Q06111041A-08-06 | 3/8"   | 66.5          | 74.5  | A+B-26,5 | ø44,4 | 27 | 27 |
| 12.5 | 1/2"   | -08  | Q06211041A-08-08 | Q06111041A-08-08 | 1/2"   | 69.5          | 77.5  | A+B-26,5 | ø44,4 | 27 | 27 |
| 20   | 3/4"   | -12  | Q06211041A-12-08 | Q06111041A-12-08 | 1/2"   | 80.8          | 89.3  | A+B-31   | ø54,2 | 34 | 34 |
| 20   | 3/4"   | -12  | Q06211041A-12-12 | Q06111041A-12-12 | 3/4"   | 82.8          | 91.3  | A+B-31   | ø54,2 | 34 | 34 |
| 25   | 1"     | -16  | Q06211041A-16-12 | Q06111041A-16-12 | 3/4"   | 92.3          | 99.3  | A+B-34,5 | ø59,6 | 41 | 41 |
| 25   | 1"     | -16  | Q06211041A-16-16 | Q06111041A-16-16 | 1"     | 95.3          | 102.3 | A+B-34,5 | ø59,6 | 41 | 41 |
| 38   | 1-1/2" | -24  | Q06211041A-24-20 | Q06111041A-24-20 | 1.1/4" | 124.5         | 137.3 | A+B-47,5 | ø86,6 | 60 | 60 |
| 38   | 1-1/2" | -24  | Q06211041A-24-24 | Q06111041A-24-24 | 1.1/2" | 127.5         | 140.3 | A+B-47,5 | ø86,6 | 60 | 60 |

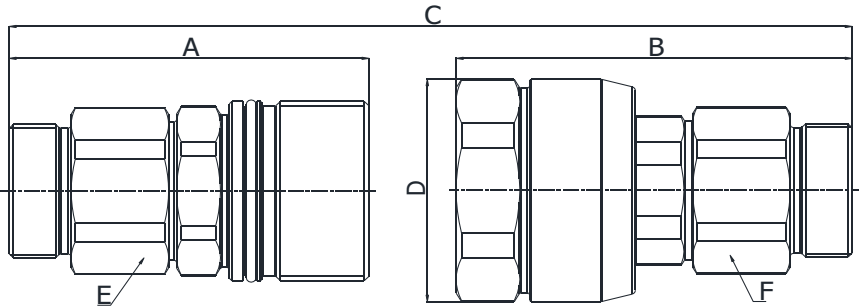


**Q06211870B**  
**Q06111870B**

METRIC TERMINATION ENDS  
BULKHEAD S SERIES

| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |          |       |    |    |
|------|--------|------|------------------|------------------|--------|---------------|-------|----------|-------|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B     | C        | D     | E  | F  |
| 38   | 1-1/2" | -24  | Q06211870B-24-42 | Q06111870B-24-42 | M42x2  | 146.7         | 159.5 | A+B-47,3 | ø86,6 | 60 | 38 |

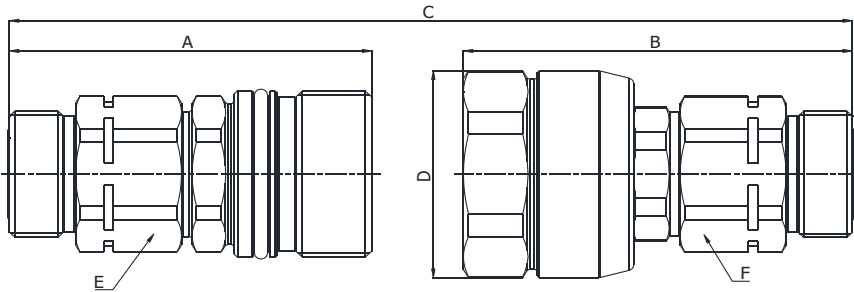




**Q06211120A**  
**Q06111120A**

METRIC TERMINATION ENDS  
TO ISO 8434-1 S SERIES

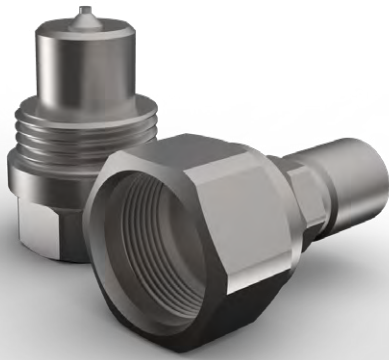
| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |     |          |       |    |    |
|------|--------|------|------------------|------------------|--------|---------------|-----|----------|-------|----|----|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B   | C        | D     | E  | F  |
| 38   | 1-1/2" | -24  | Q06211120A-24-52 | Q06111120A-24-52 | M52x2  | 127.6         | 140 | A+B-47,3 | ø86,6 | 60 | 60 |



**Q06211240A**  
**Q06111240A**

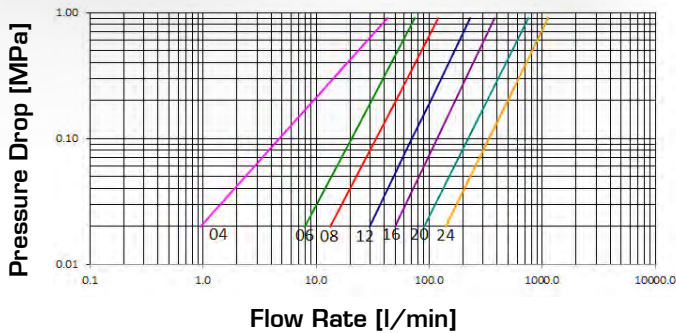
ORFS TERMINATION ENDS  
TO ISO 8434-3

| SIZE |      |      | PART NUMBER      |                  | THREAD        | DIMENSIONS mm |       |          |       |    |    |
|------|------|------|------------------|------------------|---------------|---------------|-------|----------|-------|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |               | A             | B     | C        | D     | E  | F  |
| 25   | 1"   | -16  | Q06211240A-16-16 | Q06111240A-16-16 | 1.7/16"-12 UN | 98.3          | 102.8 | A+B-34,5 | ø59,6 | 46 | 46 |

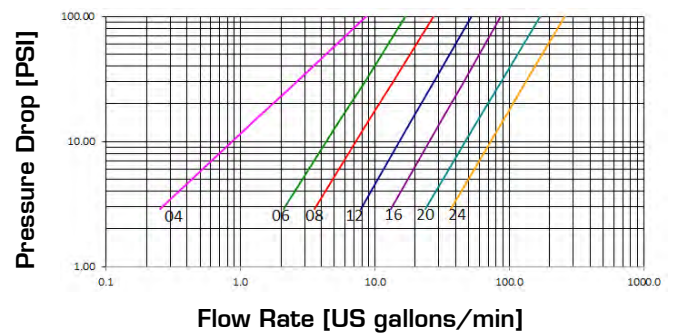


# SCREW TYPE HEAVY DUTY

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |       |  |        |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRES-SURE (Dyamic)                                                          |       | RATED FLOW at 0.2 MPa of pressure drop                                              |        | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI   | l/min                                                                               | US GPM | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |       |                                                                                     |        |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 6                                                                                   | ¼    | 04   | 70                                                                                  | 10150 | 10                                                                                  | 2.6    | 0.4                                                                                 | 0.024      | 290                                                                                   | 42050 | 350    | 50750 | 300   | 43500 | Allowed up to 30 MPa                                                                  |  |
| 10                                                                                  | ⅜    | 06   | 60                                                                                  | 8700  | 31                                                                                  | 8.2    | 1.5                                                                                 | 0.092      | 250                                                                                   | 36250 | 330    | 47850 | 320   | 46400 | Allowed up to 30 MPa                                                                  |  |
| 12.5                                                                                | ½    | 08   | 50                                                                                  | 7250  | 51                                                                                  | 13.5   | 2                                                                                   | 0.122      | 200                                                                                   | 29000 | 260    | 37700 | 310   | 44950 | Allowed up to 30 MPa                                                                  |  |
| 20                                                                                  | ¾    | 12   | 50                                                                                  | 7250  | 102                                                                                 | 26.9   | 4                                                                                   | 0.244      | 200                                                                                   | 29000 | 250    | 36250 | 310   | 44950 | Allowed up to 30 MPa                                                                  |  |
| 25                                                                                  | 1    | 16   | 50                                                                                  | 7250  | 170                                                                                 | 44.9   | 7.5                                                                                 | 0.458      | 200                                                                                   | 29000 | 230    | 33350 | 270   | 39150 | Allowed up to 30 MPa                                                                  |  |
| 31                                                                                  | 1¼   | 20   | 40                                                                                  | 5800  | 325                                                                                 | 85.9   | 15                                                                                  | 0.916      | 160                                                                                   | 23200 | 170    | 24650 | 230   | 33350 | Allowed up to 15 MPa                                                                  |  |
| 38                                                                                  | 1½   | 24   | 32                                                                                  | 4640  | 494                                                                                 | 130.5  | 23                                                                                  | 1.404      | 130                                                                                   | 18850 | 140    | 20300 | 150   | 21750 | Allowed up to 15 MPa                                                                  |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw-on connection/disconnection system
- Sleeve with hexagon area internal components reinforced, made in steel
- Hardened valve bodies
- Three-part poppet valve with a moulded shaped seal
- Mechanical backstop to prevent partial enclosures of valves due to peaks and reverse flow
- Interchangeable with other products and widely used on the market
- Accessories (plugs and caps) and spare part kits available
- Wide range of termination ends

## MATERIAL

Couplings in steel with some stressed area hardened.  
Carbonitrided valve, springs in C98 steel, seals in NBR and back-ringing in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

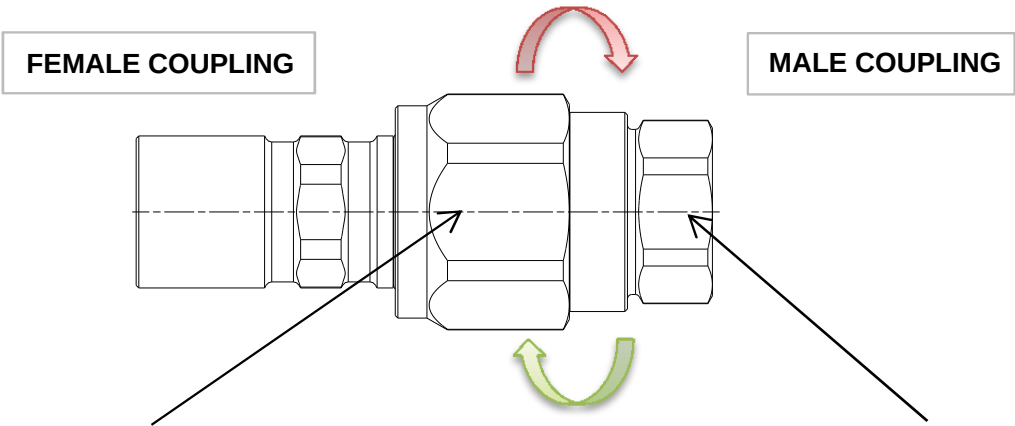
200,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

# ASSEMBLY INSTRUCTIONS

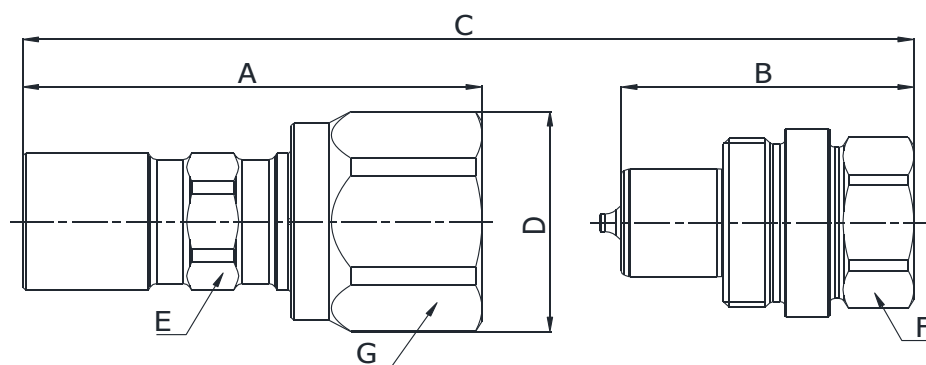
## RECOMMENDED TIGHTENING TORQUES



Turn the sleeve on the female applying the tightening torque through the hexagon

Hold the hexagon on the male body with a wrench

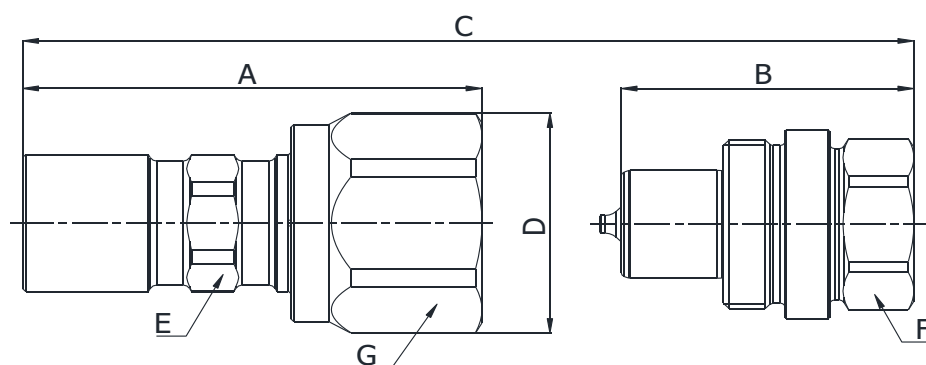
| SIZE |        |      | TIGHTENING TORQUE |
|------|--------|------|-------------------|
| DN   | Inch   | Dash | Nm                |
| 6    | 1/4"   | -04  | 50                |
| 10   | 3/8"   | -06  | 70                |
| 12.5 | 1/2"   | -08  | 100               |
| 19   | 3/4"   | -12  | 150               |
| 25   | 1"     | -16  | 250               |
| 31   | 1-1/4" | -20  | 400               |
| 38   | 1-1/2" | -24  | 500               |



**Q05411041A**  
**Q05311041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |       |    |    |    |  |
|------|--------|------|------------------|------------------|--------|---------------|------|----------|-------|----|----|----|--|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D     | E  | F  | G  |  |
| 6.3  | 1/4"   | -04  | Q05411041A-04-04 | Q05311041A-04-04 | 1/4"   | 63            | 42.2 | A+B-20,8 | ø35   | 19 | 22 | 32 |  |
| 10   | 3/8"   | -06  | Q05411041A-06-06 | Q05311041A-06-06 | 3/8"   | 72.5          | 46.2 | A+B-25,9 | ø38,5 | 22 | 27 | 35 |  |
| 12.5 | 1/2"   | -08  | Q05411041A-08-08 | Q05311041A-08-08 | 1/2"   | 82.1          | 54.4 | A+B-27,3 | ø45   | 27 | 32 | 41 |  |
| 20   | 3/4"   | -12  | Q05411041A-12-12 | Q05311041A-12-12 | 3/4"   | 93.7          | 61.4 | A+B-31,9 | ø55   | 35 | 41 | 50 |  |
| 25   | 1"     | -16  | Q05411041A-16-16 | Q05311041A-16-16 | 1"     | 105.8         | 68.3 | A+B-37   | ø66   | 41 | 50 | 60 |  |
| 31.5 | 1.1/4" | -20  | Q05411041A-20-20 | Q05311041A-20-20 | 1.1/4" | 131.9         | 82   | A+B-53,9 | ø88   | 55 | 70 | 80 |  |
| 38   | 1.1/2" | -24  | Q05411041A-24-24 | Q05311041A-24-24 | 1.1/2" | 158.9         | 102  | A+B-70,4 | ø99   | 60 | 80 | 90 |  |



**Q05411341A**  
**Q05311341A**

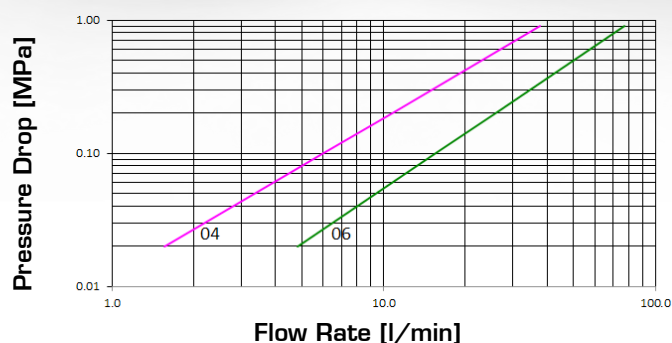
NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |        |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |      |          |       |    |    |    |  |
|------|--------|------|------------------|------------------|-------------|---------------|------|----------|-------|----|----|----|--|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |             | A             | B    | C        | D     | E  | F  | G  |  |
| 6.3  | 1/4"   | -04  | Q05411341A-04-04 | Q05311341A-04-04 | 1/4" NPTF   | 63            | 42.2 | A+B-20,8 | ø35   | 19 | 22 | 32 |  |
| 10   | 3/8"   | -06  | Q05411341A-06-06 | Q05311341A-06-06 | 3/8" NPTF   | 72.5          | 46.2 | A+B-25,9 | ø38,5 | 22 | 27 | 35 |  |
| 12.5 | 1/2"   | -08  | Q05411341A-08-08 | Q05311341A-08-08 | 1/2" NPTF   | 82.1          | 54.4 | A+B-27,3 | ø45   | 27 | 32 | 41 |  |
| 20   | 3/4"   | -12  | Q05411341A-12-12 | Q05311341A-12-12 | 3/4" NPTF   | 93.7          | 61.4 | A+B-31,9 | ø55   | 35 | 41 | 50 |  |
| 25   | 1"     | -16  | Q05411341A-16-16 | Q05311341A-16-16 | 1" NPTF     | 105.8         | 68.3 | A+B-37   | ø66   | 41 | 50 | 60 |  |
| 31.5 | 1.1/4" | -20  | Q05411341A-20-20 | Q05311341A-20-20 | 1.1/4" NPTF | 131.9         | 82   | A+B-53,9 | ø88   | 55 | 70 | 80 |  |
| 38   | 1.1/2" | -24  | Q05411341A-24-24 | Q05311341A-24-24 | 1.1/2" NPTF | 158.9         | 102  | A+B-70,4 | ø99   | 60 | 80 | 90 |  |

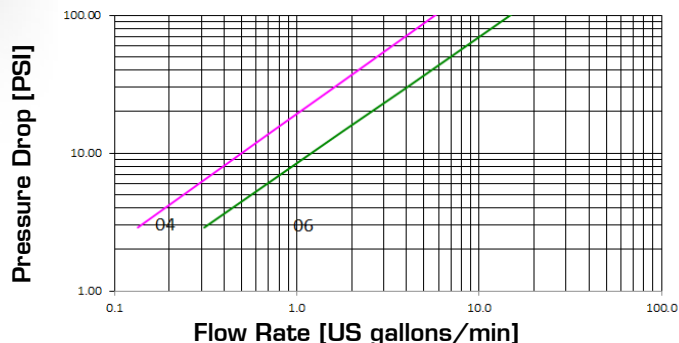


# SCREW TYPE HYDRAULIC CYLINDERS (POPPET)

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |       |  |        |  |            |  |       |        |       |       |  |                      |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|---------------------------------------------------------------------------------------|----------------------|
| SIZE                                                                                |      |      | WORKING PRESSURE (Dynamic)                                                          |       | RATED FLOW at 0.2 MPa of pressure drop                                              |        | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |                      |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI   | l/min                                                                               | US GPM | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |                                                                                       |                      |
|                                                                                     |      |      |                                                                                     |       |                                                                                     |        |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI                                                                                   |                      |
| 6.3                                                                                 | ¼    | 04   | 72                                                                                  | 10440 | 11                                                                                  | 2.9    | 0.4                                                                                 | 0.024      | 350                                                                                   | 50750 | 310    | 44950 | 320   | 46400                                                                                 | Allowed Max. 10 MPa* |
| 10                                                                                  | ⅜    | 06   | 72                                                                                  | 10440 | 26                                                                                  | 7      | 0.6                                                                                 | 0.037      | 290                                                                                   | 42050 | 300    | 43500 | 290   | 42050                                                                                 | Allowed Max. 10 MPa* |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

\*In one part

## PRODUCT DESCRIPTION

- Screw-type couplings specially designed for very high pressure applications on cylinders and hydraulic rams
- Connection and disconnection is made by screwing the sleeve and can be made with residual pressure in the line
- Connection secured on the thread between the sleeve and the male coupling
- Shut-off by poppet valve provides effective hydraulic sealing
- Interchangeable with other products and widely used in the USA and Europe
- ISO 14540 compliant

## MATERIAL

Female and male coupling in steel. Carbonitrided valve, springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
Specific seals available in case of higher temperatures

## SAFETY FACTOR

4:1 for dynamic pressures

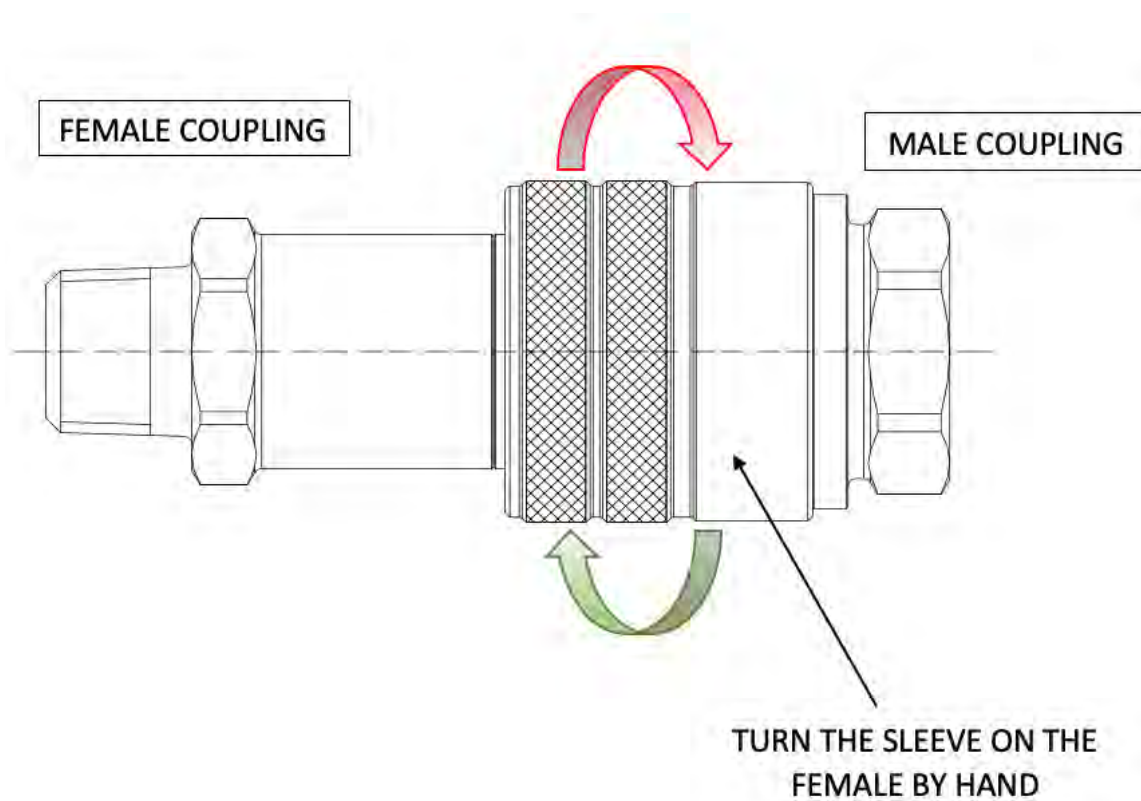
## IMPULSE PRESSURES

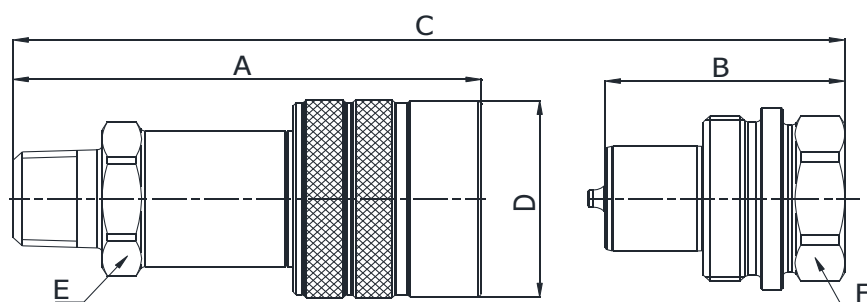
10,000 cycles at 100% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

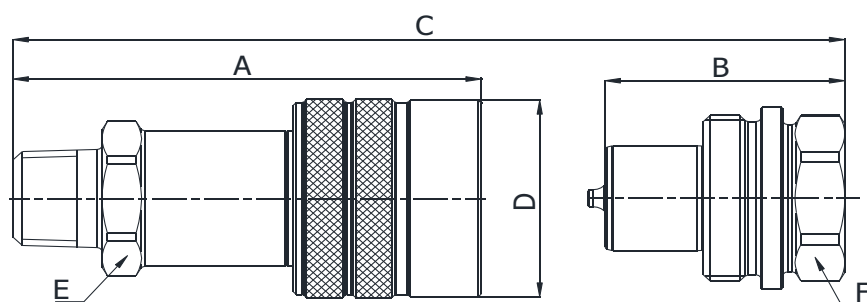
## ASSEMBLY INSTRUCTIONS



**Q05611280B**

NPT TERMINATION ENDS  
TO ANSI B1.20.3

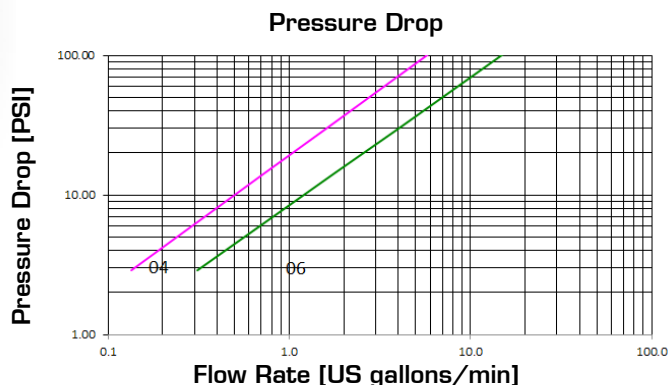
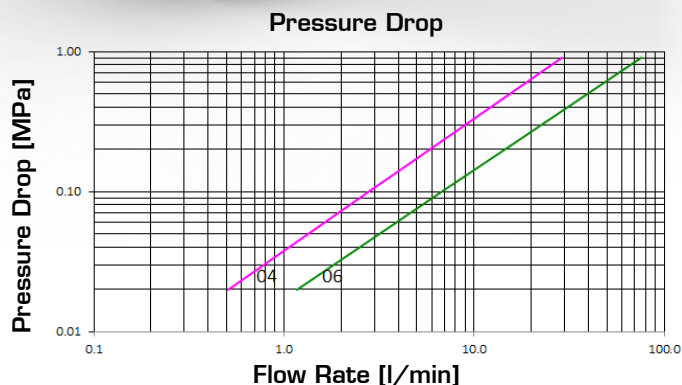
| SIZE |      |      | PART NUMBER      |               | THREAD    | DIMENSIONS mm |   |        |       |    |   |
|------|------|------|------------------|---------------|-----------|---------------|---|--------|-------|----|---|
| DN   | Inch | Dash | Female coupling  | Male coupling |           | A             | B | C      | D     | E  | F |
| 6.3  | 1/4" | -04  | Q05611280B-04-04 | -             | 1/4" NPTF | 62.4          | - | A+B-19 | ø30   | 21 | - |
| 10   | 3/8" | -06  | Q05611280B-06-04 | -             | 1/4" NPTF | 76            | - | A+B-25 | ø35,6 | 25 | - |
| 10   | 3/8" | -06  | Q05611280B-06-06 | -             | 3/8" NPTF | 76            | - | A+B-25 | ø35,6 | 25 | - |

**Q05511341B**

NPT TERMINATION ENDS  
TO ANSI B1.20.3

| SIZE |      |      | PART NUMBER     |                  | THREAD    | DIMENSIONS mm |    |        |   |   |    |
|------|------|------|-----------------|------------------|-----------|---------------|----|--------|---|---|----|
| DN   | Inch | Dash | Female coupling | Male coupling    |           | A             | B  | C      | D | E | F  |
| 6.3  | 1/4" | -04  | -               | Q05511341B-04-04 | 1/4" NPTF | -             | 34 | A+B-19 | - | - | 22 |
| 10   | 3/8" | -06  | -               | Q05511341B-06-04 | 1/4" NPTF | -             | 39 | A+B-25 | - | - | 27 |
| 10   | 3/8" | -06  | -               | Q05511341B-06-06 | 3/8" NPTF | -             | 39 | A+B-25 | - | - | 27 |

# SCREW TYPE HYDRAULIC CYLINDERS (BALL)



## TECHNICAL DATA

|  |      |      |  |       |  |           |  |               |  |       |        |       |  |       |                                                |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-------|--------|-------|---------------------------------------------------------------------------------------|-------|------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE (Dynamic)                                                          |       | RATED FLOW<br>at 0.2 MPa of<br>pressure drop                                        |           | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |               | MINIMUM BURST PRESSURE                                                                |       |        |       |                                                                                       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI   | l/min                                                                               | US<br>GPM | cc.                                                                                 | cubic<br>inch | Male                                                                                  |       | Female |       | M & F                                                                                 |       |                                                |  |
|                                                                                     |      |      |                                                                                     |       |                                                                                     |           |                                                                                     |               | MPa                                                                                   | PSI   | MPa    | PSI   | MPa                                                                                   | PSI   |                                                |  |
| 6.3                                                                                 | 1/4  | 04   | 72                                                                                  | 10440 | 11                                                                                  | 2.9       | 0.4                                                                                 | 0.024         | 350                                                                                   | 50750 | 310    | 44950 | 320                                                                                   | 46400 | Allowed Max. 10 MPa*                           |  |
| 10                                                                                  | 3/8  | 06   | 72                                                                                  | 10440 | 26                                                                                  | 7         | 0.6                                                                                 | 0.037         | 290                                                                                   | 42050 | 300    | 43500 | 290                                                                                   | 42050 | Allowed Max. 10 MPa*                           |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow  
\*In one part

## PRODUCT DESCRIPTION

- Screw-type couplings specially designed for very high pressure applications on cylinders and hydraulic rams
- Connection and disconnection is made by screwing the sleeve and can be made with residual pressure in the line
- Connection secured on the thread between the sleeve and the male coupling
- Shut-off by ball valve provides effective hydraulic sealing
- Interchangeable with other products and widely used in the USA and Europe
- ISO 14540 compliant

## MATERIAL

Female and male coupling in steel. Carbonitrided valve, springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
Specific seals available in case of higher temperatures

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

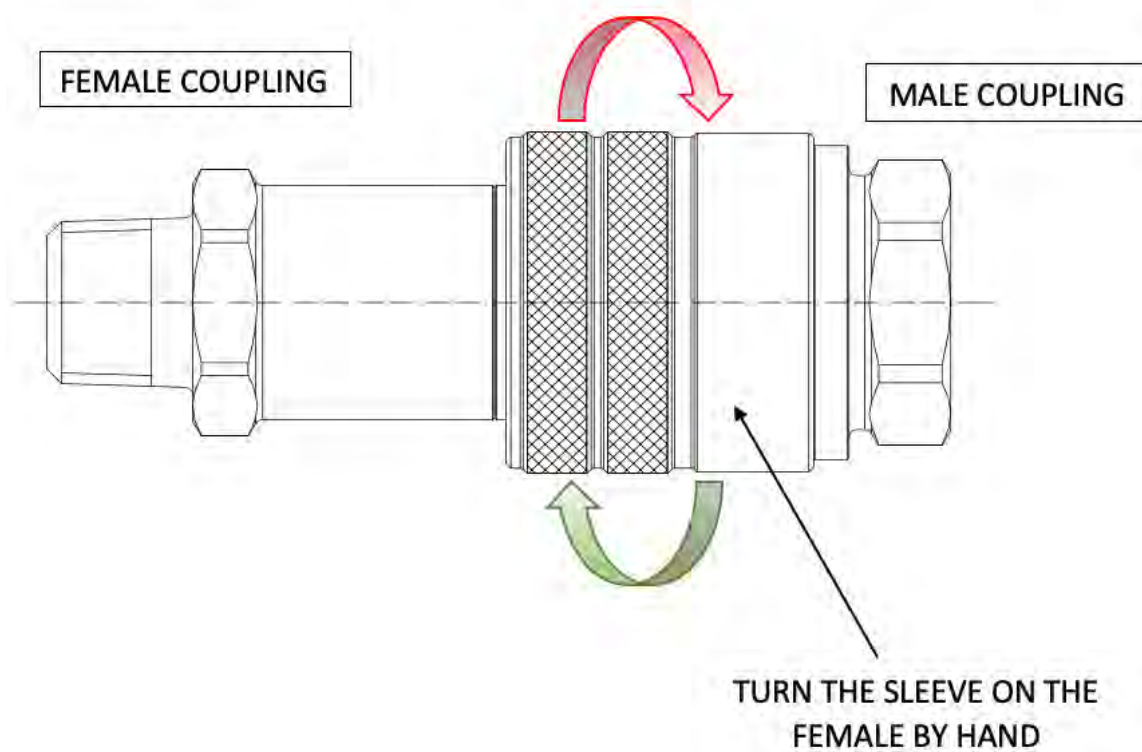
10,000 cycles at 100% of the rated one (freq. 1Hz)

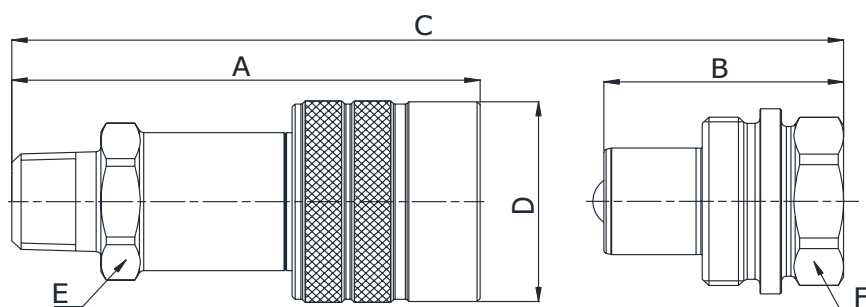
## TEST SPECIFICATIONS

ISO 7241-2



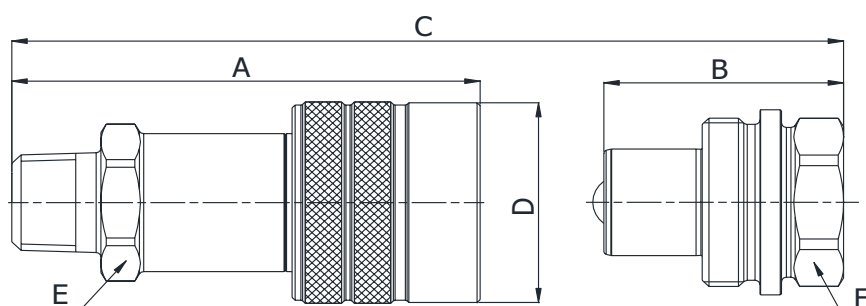
## ASSEMBLY INSTRUCTIONS



**Q05611280C**

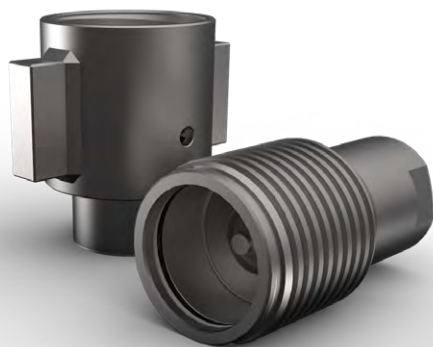
NPT TERMINATION ENDS  
TO ANSI B1.20.3

| SIZE |      |      | PART NUMBER      |               | THREAD    | DIMENSIONS mm |   |        |       |    |   |
|------|------|------|------------------|---------------|-----------|---------------|---|--------|-------|----|---|
| DN   | Inch | Dash | Female coupling  | Male coupling |           | A             | B | C      | D     | E  | F |
| 6.3  | 1/4" | -04  | Q05611280C-04-04 |               | 1/4" NPTF | 62.4          | - | A+B-19 | ø30   | 21 | - |
| 10   | 3/8" | -06  | Q05611280C-06-04 | -             | 1/4" NPTF | 75.6          | - | A+B-25 | ø35,6 | 25 | - |
| 10   | 3/8" | -06  | Q05611280C-06-06 | -             | 3/8" NPTF | 75.6          | - | A+B-25 | ø35,6 | 25 | - |

**Q05510341C**

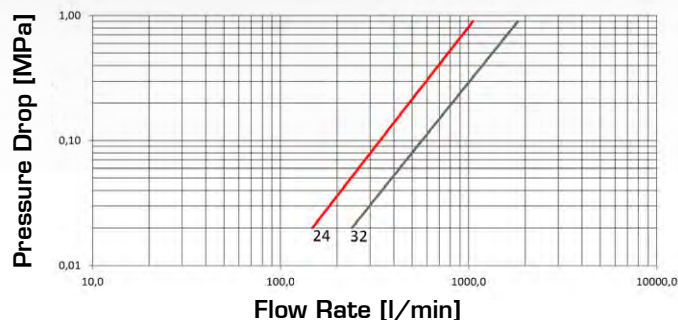
NPT TERMINATION ENDS  
TO ANSI B1.20.3

| SIZE |      |      | PART NUMBER     |                  | THREAD    | DIMENSIONS mm |    |        |   |   |    |
|------|------|------|-----------------|------------------|-----------|---------------|----|--------|---|---|----|
| DN   | Inch | Dash | Female coupling | Male coupling    |           | A             | B  | C      | D | E | F  |
| 6.3  | 1/4" | -04  | -               | Q05510341C-04-04 | 1/4" NPTF | -             | 32 | A+B-19 | - | - | 22 |
| 10   | 3/8" | -06  | -               | Q05510341C-06-04 | 1/4" NPTF | -             | 39 | A+B-25 | - | - | 27 |
| 10   | 3/8" | -06  | -               | Q05510341C-06-06 | 3/8" NPTF | -             | 39 | A+B-25 | - | - | 27 |

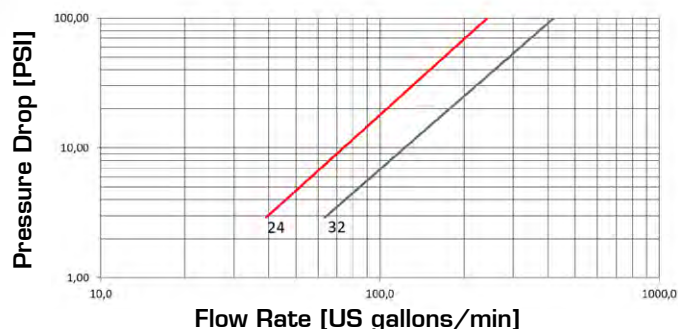


# SCREW TYPE FOR OIL & GAS

Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |       |      | MPa |      | MPa |      | FLOW RATE |        | OIL SPILLAGE |               | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER<br>PRESSURE |
|------|-------|------|-----|------|-----|------|-----------|--------|--------------|---------------|------------------------|-------|--------|-------|-------|-------|---------------------------------------------------|
| DN   | inch  | Dash | MPa | PSI  | MPa | PSI  | l/min     | US GPM | cc.          | cubic<br>inch | Male                   |       | Female |       | M & F |       |                                                   |
|      |       |      |     |      |     |      |           |        |              |               | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                                   |
| 38   | 1-1/2 | -24  | 35  | 5075 | 25  | 3625 | 485       | 128.1  | 35           | 2.137         | 100                    | 14500 | 120    | 17400 | 150   | 21750 | Residual pressure                                 |
| 51   | 2     | -32  | 35  | 5075 | 25  | 3625 | 820       | 216.6  | 80           | 4.884         | 100                    | 14500 | 100    | 14500 | 180   | 26100 | Residual pressure                                 |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw-type couplings specially designed for Oil & Gas applications
- Wing Nut shaped sleeve for easier connection and disconnection by hand, also in case of residual pressure in the line
- Connection secured on the thread between the sleeve and the female coupling
- Inspection holes to check full connection
- Shut-off by poppet valve
- Interchangeable with similar products available on the market

## MATERIAL

Female and male couplings in high grade carbon steel. Springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

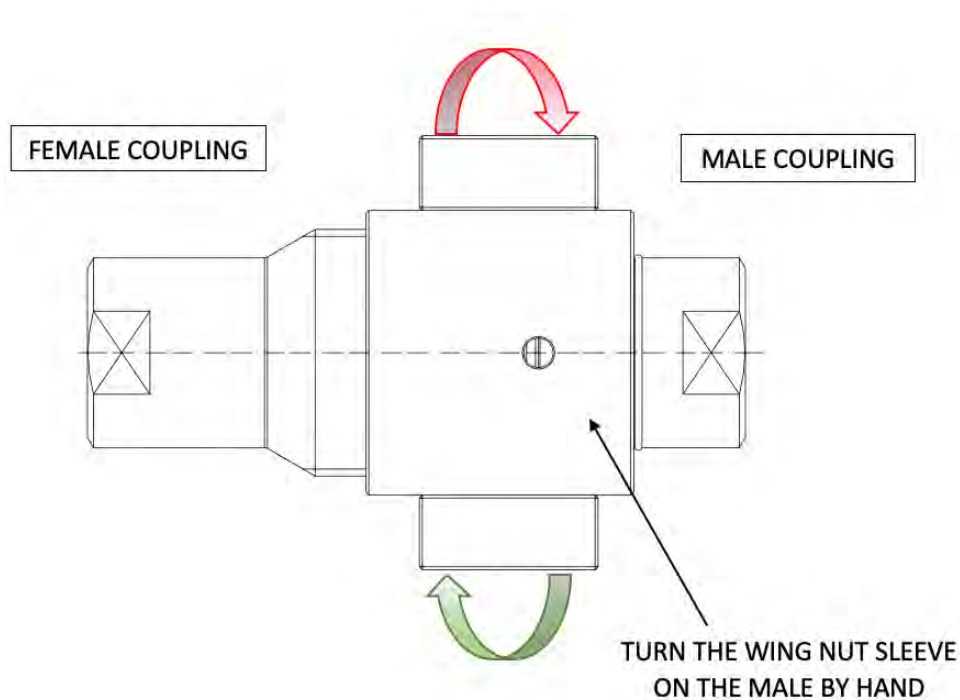
## IMPULSE PRESSURES

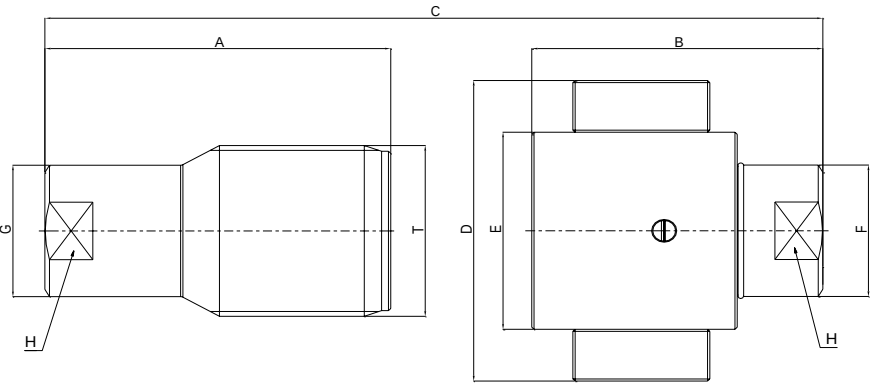
500,000 cycles at 120% of the rated one (freq. 1Hz) in connected and disconnected conditions.

## TEST SPECIFICATIONS

ISO 18869

## ASSEMBLY INSTRUCTIONS





**Q07711041A**  
**Q07611041A**

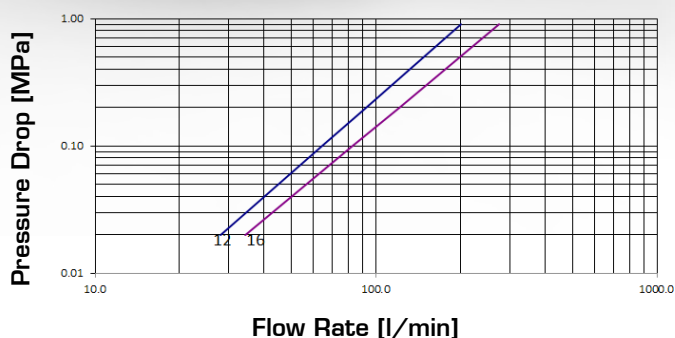
BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |       |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |          |       |        |       |       |      |                     |
|------|-------|------|------------------|------------------|--------|---------------|-------|----------|-------|--------|-------|-------|------|---------------------|
| DN   | Inch  | Dash | Female coupling  | Male coupling    |        | A             | B     | C        | D     | E      | F     | G     | H    | T                   |
| 38   | 1-1/2 | -24  | Q07711041A-24-24 | Q07611041A-24-24 | 1.1/2" | 151.5         | 127.5 | A+B-40,5 | 145.2 | ø95,2  | ø63,5 | ø63,5 | 57.1 | STUB ACME 3-1/4 - 4 |
| 51   | 2     | -32  | Q07711041A-32-32 | Q07611041A-32-32 | 2"     | 179           | 154   | A+B-51   | 168.7 | ø118,7 | ø83   | ø82,5 | 76.2 | STUB ACME 4 - 4     |

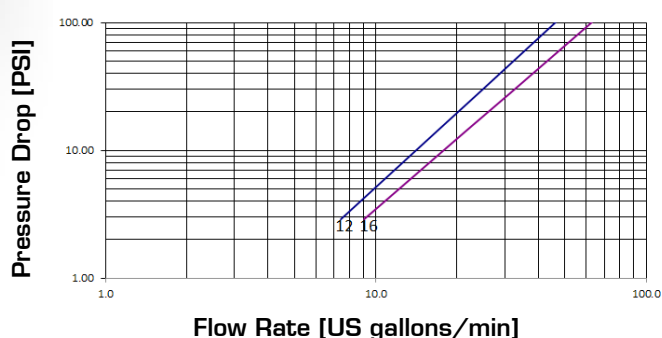
# SCREW TYPE FOR TRUCKS



Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |  |        |  |            |  |       |        |       |       |  |                   |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|---------------------------------------------------------------------------------------|-------------------|
| SIZE                                                                                |      |      | WORKING PRES-SURE (Dynamic)                                                         |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |                   |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |                                                                                       |                   |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI                                                                                   |                   |
| 20                                                                                  | ¾    | 12   | 25                                                                                  | 3625 | 92                                                                                  | 24.3   | 7.5                                                                                 | 0.458      | 100                                                                                   | 14500 | 120    | 17400 | 110   | 15950                                                                                 | Residual pressure |
| 25                                                                                  | 1    | 16   | 25                                                                                  | 3625 | 121                                                                                 | 32.0   | 9                                                                                   | 0.549      | 120                                                                                   | 17400 | 140    | 20300 | 130   | 18850                                                                                 | Residual pressure |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw-type couplings specially designed for truck trailer applications
- Wing Nut shaped sleeve for easier connection and disconnection by hand, also in case of residual pressure in the line
- Connection secured on the thread between the sleeve and the male coupling
- Shut-off by poppet valve
- Interchangeable with similar products available on the market

## MATERIAL

Female and male coupling in steel. Carbonitrided valve, springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

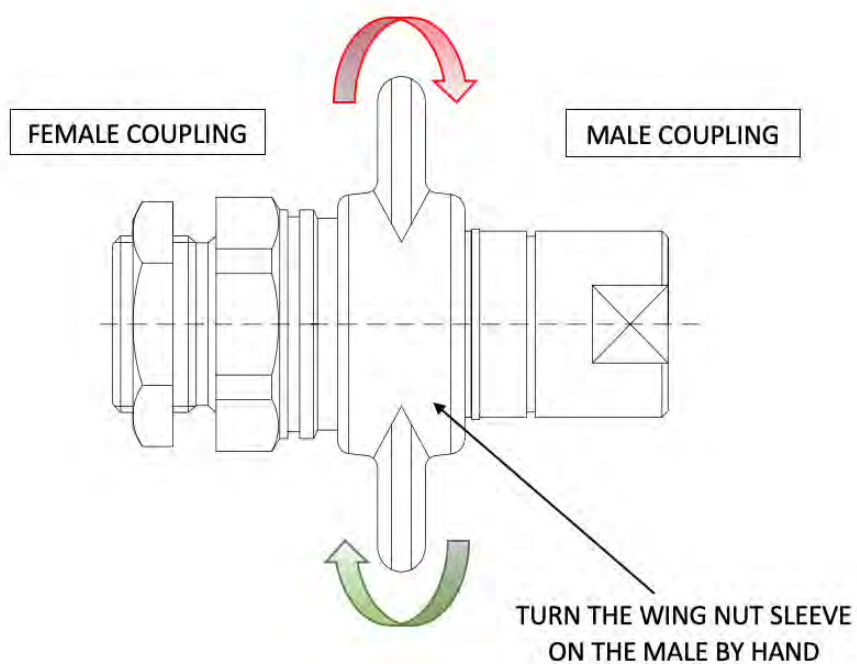
## SAFETY FACTOR

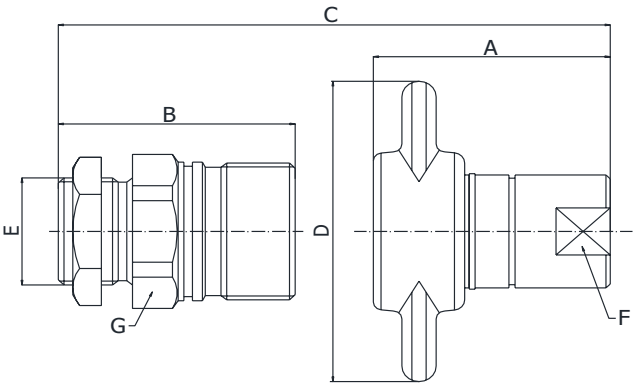
4:1 for dynamic pressures and 2:1 for static pressures

## TEST SPECIFICATIONS

ISO 18869

## ASSEMBLY INSTRUCTIONS





**Q05811041A**  
**Q05711041A**

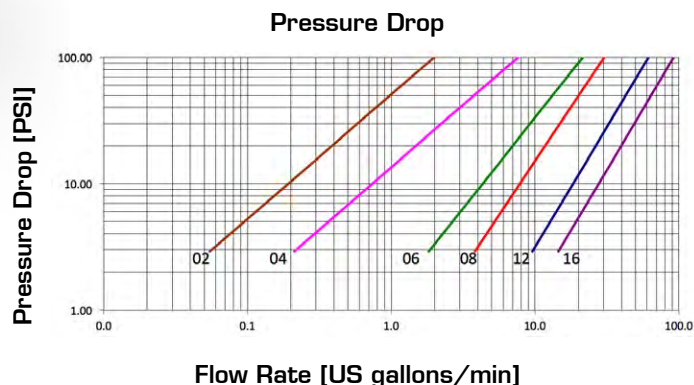
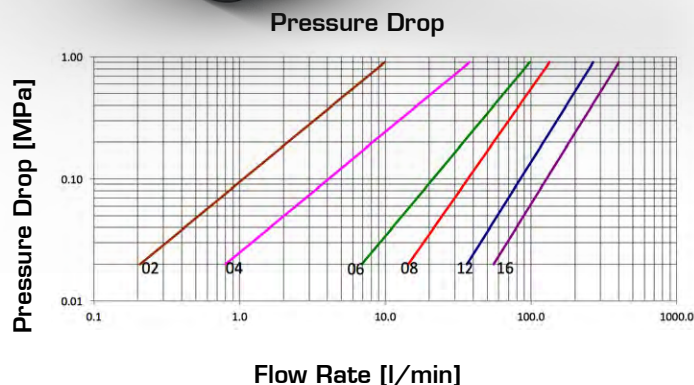
BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |    |     |     |        |    |    |  |
|------|------|------|------------------|------------------|--------|---------------|----|-----|-----|--------|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B  | C   | D   | E      | F  | G  |  |
| 20   | 3/4" | -12  | Q05811041A-12-12 | Q05711041A-12-12 | 3/4"   | 78            | 78 | 138 | 117 | 1.1/4" | 33 | 46 |  |
| 25   | 1"   | -16  | Q05811041A-16-16 | Q05711041A-16-16 | 1"     | 83            | 83 | 148 | 117 | 1.1/4" | 40 | 55 |  |





# STAINLESS STEEL ISO B POPPET VALVE



## TECHNICAL DATA

| SIZE |      |      | MPa |      | FLOW RATE |        | N  |      | OIL SPILLAGE Connection/Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/ DISCONNECTION UNDER PRESSURE |  |
|------|------|------|-----|------|-----------|--------|----|------|---------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------|--|
| DN   | inch | Dash | MPa | PSI  | l/min     | US GPM | N  | lb.  | cc.                                   | cubic inch | Male                   |       | Female |       | M & F |       |                                          |  |
|      |      |      |     |      |           |        |    |      |                                       |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                          |  |
| 5    | 1/8  | 02   | 40  | 5800 | 2         | 0.6    | 28 | 6.3  | 0.5                                   | 0.031      | 210                    | 30450 | 280    | 40600 | 160   | 23200 | Not allowed                              |  |
| 6.3  | 1/4  | 04   | 35  | 5075 | 8         | 2.2    | 36 | 8.1  | 0.8                                   | 0.049      | 150                    | 21750 | 220    | 31900 | 230   | 33350 | Not allowed                              |  |
| 10   | 3/8  | 06   | 30  | 4350 | 34        | 9.1    | 38 | 8.5  | 1.5                                   | 0.092      | 130                    | 18850 | 160    | 23200 | 180   | 26100 | Not allowed                              |  |
| 12.5 | 1/2  | 08   | 30  | 4350 | 55        | 14.6   | 50 | 11.2 | 2.5                                   | 0.153      | 120                    | 17400 | 130    | 18850 | 140   | 20300 | Not allowed                              |  |
| 20   | 3/4  | 12   | 25  | 3625 | 122       | 32.1   | 56 | 12.6 | 8.5                                   | 0.519      | 110                    | 15950 | 110    | 15950 | 130   | 18850 | Not allowed                              |  |
| 25   | 1    | 16   | 25  | 3625 | 183       | 48.3   | 56 | 12.6 | 15.0                                  | 0.915      | 110                    | 15950 | 110    | 15950 | 100   | 14500 | Not allowed                              |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Reference series for all industrial applications
- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by latching the ball system
- Shut-off by poppet valve
- High resistant materials
- Interchangeable according to ISO 7241 series B
- FKM (VITON) seal

## MATERIAL

Female and male in AISI 316 steel. Couplings in high grade carbon steel hardened. Springs in C98 steel, seals in FKM (VITON) (other materials on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-25°C up to +200°C

For other temperatures, the quick coupling is assembled with specific seals

## SAFETY FACTOR

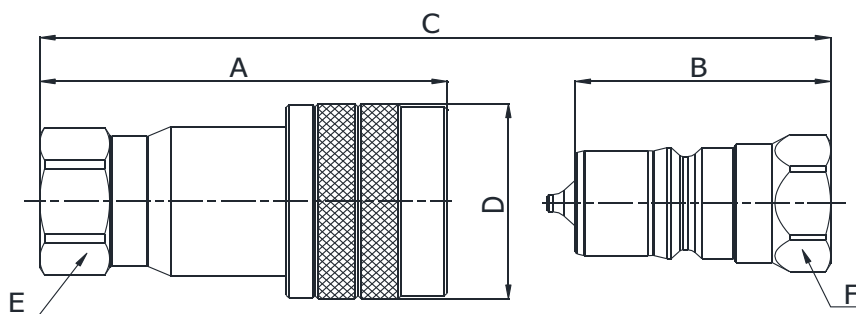
4:1 for dynamic pressures

## IMPULSE PRESSURES

Withstands 100,000 cycles of impulse pressure at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

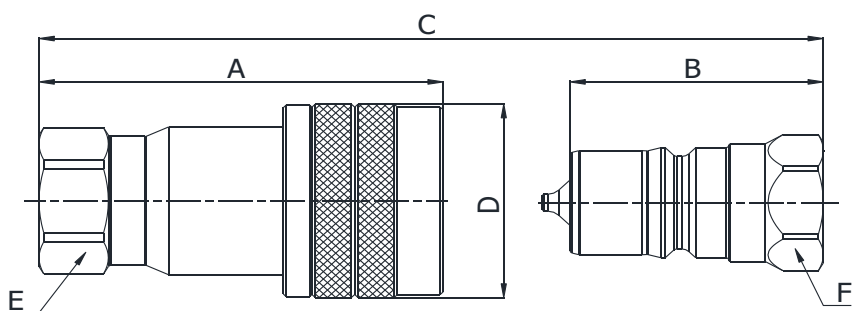
ISO 18869



**Q02423041A**  
**Q02123041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE  
FKM SEAL

| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |
| 5    | 1/8" | -02  | Q02423041A-02-02 | Q02123041A-02-02 | 1/8"   | 48.5          | 30   | A+B-18,2 | ø22 | 15 | 14 |
| 6.3  | 1/4" | -04  | Q02423041A-04-04 | Q02123041A-04-04 | 1/4"   | 58.8          | 37.2 | A+B-21,2 | ø28 | 19 | 19 |
| 10   | 3/8" | -06  | Q02423041A-06-06 | Q02123041A-06-06 | 3/8"   | 66.2          | 41.5 | A+B-24,4 | ø35 | 24 | 22 |
| 12.5 | 1/2" | -08  | Q02423041A-08-08 | Q02123041A-08-08 | 1/2"   | 74            | 46.5 | A+B-27,2 | ø42 | 30 | 27 |
| 20   | 3/4" | -12  | Q02423041A-12-12 | Q02123041A-12-12 | 3/4"   | 91            | 56.5 | A+B-34,2 | ø52 | 36 | 36 |
| 25   | 1"   | -16  | Q02423041A-16-16 | Q02123041A-16-16 | 1"     | 104           | 64.5 | A+B-39,2 | ø60 | 41 | 41 |



**Q02423341A**  
**Q02123341A**

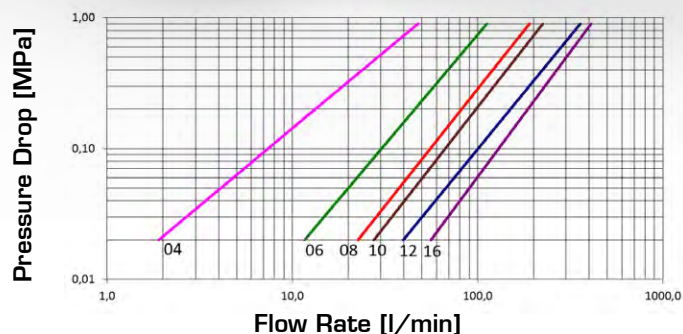
NPTF TERMINATION END  
TO ANSI B 1.20.3  
FKM SEAL

| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |
| 5    | 1/8" | -02  | Q02423341A-02-02 | Q02123341A-02-02 | 1/8" NPTF | 48.5          | 30   | A+B-18,2 | ø22 | 15 | 14 |
| 6.3  | 1/4" | -04  | Q02423341A-04-04 | Q02123341A-04-04 | 1/4" NPTF | 58.8          | 37.2 | A+B-21,2 | ø28 | 19 | 19 |
| 10   | 3/8" | -06  | Q02423341A-06-06 | Q02123341A-06-06 | 3/8" NPTF | 66.2          | 41.5 | A+B-24,4 | ø35 | 24 | 22 |
| 12.5 | 1/2" | -08  | Q02423341A-08-08 | Q02123341A-08-08 | 1/2" NPTF | 74            | 46.5 | A+B-27,2 | ø42 | 30 | 27 |
| 20   | 3/4" | -12  | Q02423341A-12-12 | Q02123341A-12-12 | 3/4" NPTF | 91            | 56.5 | A+B-34,2 | ø52 | 36 | 36 |
| 25   | 1"   | -16  | Q02423341A-16-16 | Q02123341A-16-16 | 1" NPTF   | 104           | 64.5 | A+B-39,2 | ø60 | 41 | 41 |

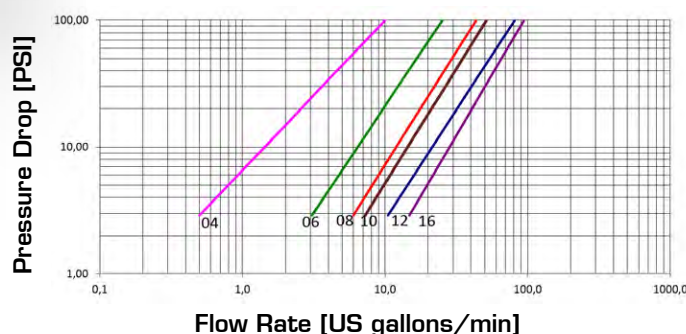


# STAINLESS STEEL FLAT FACE

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |      |                                            |      |  |        |  |      |  |            |  |       |        |       |       |       |  |  |
|------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|--------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                               |      |      | WORKING PRESSURE CONNECTED<br>[Dynamic]                                             |      | WORKING PRESSURE DISCONNECTED<br>[Dynamic] |      | RATED FLOW<br>at 0.2 MPa<br>of pressure drop                                        |        | CONNECTION EFFORT                                                                   |      | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION WITH FEMALE UNDER PRESSURE<br>(MALE AT 0 MPa)                              |  |
| DN                                                                                 | inch | Dash | MPa                                                                                 | PSI  | MPa                                        | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb.  | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                    |      |      | MPa                                                                                 | PSI  | MPa                                        | PSI  |                                                                                     |        |                                                                                     |      |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 6.3                                                                                | 1/4" | 04   | 35                                                                                  | 5075 | 32                                         | 4640 | 13                                                                                  | 3.4    | 120                                                                                 | 27.0 | 0.005                                                                               | 0.0003     | 200                                                                                   | 29000 | 130    | 18850 | 220   | 31900 | Allowed up to 6 MPa                                                                   |  |
| 10                                                                                 | 3/8" | 06   | 35                                                                                  | 5075 | 32                                         | 4640 | 46                                                                                  | 12.2   | 130                                                                                 | 29.2 | 0.007                                                                               | 0.0004     | 180                                                                                   | 26100 | 130    | 18850 | 170   | 24650 | Allowed up to 6 MPa                                                                   |  |
| 12.5                                                                               | 1/2" | 08   | 35                                                                                  | 5075 | 25                                         | 3625 | 82                                                                                  | 21.7   | 150                                                                                 | 33.7 | 0.008                                                                               | 0.0005     | 100                                                                                   | 14500 | 100    | 14500 | 140   | 20300 | Allowed up to 4 MPa                                                                   |  |
| 16                                                                                 | 5/8" | 10   | 35                                                                                  | 5075 | 25                                         | 3625 | 98                                                                                  | 25.9   | 160                                                                                 | 36.0 | 0.008                                                                               | 0.0005     | 100                                                                                   | 14500 | 100    | 14500 | 140   | 20300 | Allowed up to 3 MPa                                                                   |  |
| 19                                                                                 | 3/4" | 12   | 35                                                                                  | 5075 | 22                                         | 3190 | 150                                                                                 | 39.6   | 210                                                                                 | 47.2 | 0.009                                                                               | 0.0005     | 90                                                                                    | 13050 | 100    | 14500 | 140   | 20300 | Allowed up to 2 MPa                                                                   |  |
| 25                                                                                 | 1"   | 16   | 35                                                                                  | 5075 | 21                                         | 3045 | 186                                                                                 | 49.1   | 210                                                                                 | 47.2 | 0.02                                                                                | 0.0012     | 110                                                                                   | 15950 | 85     | 12325 | 140   | 20300 | Allowed up to 2 MPa                                                                   |  |

Connection with Male under pressure not allowed; Disconnection under pressure not allowed

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection
- Connection is made by pushing the male coupling and disconnection by pulling back the sleeve of the female
- Positive, quick connection of the male into the female by the latching ball system
- Shut-off by flat valve
- Interchangeability according to ISO 16028 and HTMA standards (only for 3/8")
- 1,000,000 cycles at 120% of rated (freq. 1Hz - connected conditions)
- FKM (VITON) seal

## MATERIAL

Female and male coupling in steel, with some stressed tempered or carbonitrided areas. Springs in AISI and C98 steel, FKM (VITON) seal. Other materials (VITON, EPDM or any others) on request

## WORKING TEMPERATURE

-25°C up to +200°C

For other temperatures the coupling is assembled with the specified seals

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

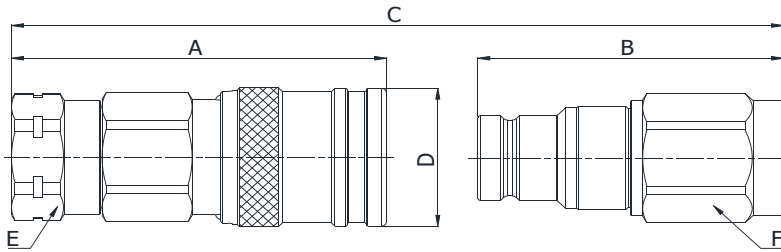
100,000 cycles at 133% of the rated one (freq. 1Hz) in disconnected conditions. 1,000,000 cycles at 120% of rated one (freq. 1Hz) in connected conditions.

## TEST SPECIFICATIONS

ISO 18869

## Q04123041A Q03923041A

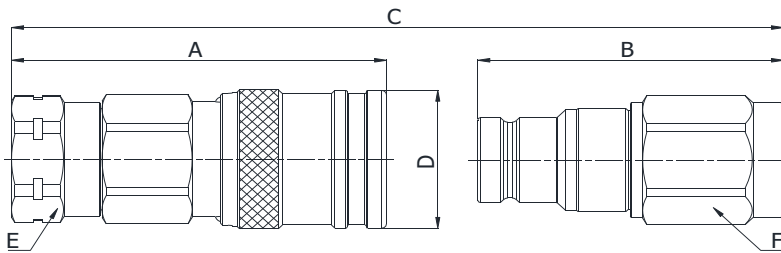
BSP TERMINATION ENDS  
TO DIN 3852 X TYPE



| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|--------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D   | E  | F  |  |  |
| 6.3  | 1/4" | -04  | Q04123041A-04-04 | Q03923041A-04-04 | 1/4"   | 65.2          | 52.4 | A+B-11,1 | ø28 | 24 | 22 |  |  |
| 10   | 3/8" | -06  | Q04123041A-06-06 | Q03923041A-06-06 | 3/8"   | 78.3          | 63.8 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 10   | 3/8" | -06  | Q04123041A-06-08 | Q03923041A-06-08 | 1/2"   | 81.3          | 67.8 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q04123041A-08-08 | Q03923041A-08-08 | 1/2"   | 88.5          | 71.3 | A+B-17,1 | ø38 | 36 | 36 |  |  |
| 12.5 | 1/2" | -08  | Q04123041A-08-12 | Q03923041A-08-12 | 3/4"   | 90.5          | 75.8 | A+B-17,1 | ø38 | 36 | 36 |  |  |
| 16   | 5/8" | -10  | Q04123041A-10-12 | Q03923041A-10-12 | 3/4"   | 94.6          | 76.4 | A+B-17,6 | ø42 | 36 | 36 |  |  |
| 19   | 3/4" | -12  | Q04123041A-12-12 | Q03923041A-12-12 | 3/4"   | 108           | 89.8 | A+B-21.7 | ø48 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q04123041A-16-16 | Q03923041A-16-16 | 1"     | 119.4         | 92.1 | A+B-22,9 | ø55 | 50 | 50 |  |  |

## Q04123341A Q03923341A

NPTF TERMINATION ENDS  
TO ANSI B 1.20.3

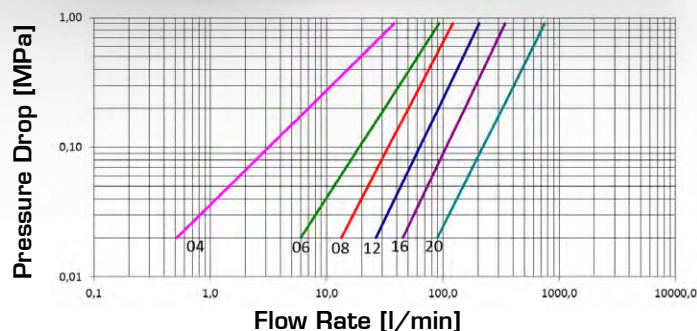


| SIZE |      |      | PART NUMBER      |                  | THREAD    | DIMENSIONS mm |      |          |     |    |    |  |  |
|------|------|------|------------------|------------------|-----------|---------------|------|----------|-----|----|----|--|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |           | A             | B    | C        | D   | E  | F  |  |  |
| 10   | 3/8" | -06  | Q04123341A-06-06 | Q03923341A-06-06 | 3/8" NPTF | 78.3          | 63.8 | A+B-15,9 | ø32 | 27 | 27 |  |  |
| 12.5 | 1/2" | -08  | Q04123341A-08-08 | Q03923341A-08-08 | 1/2" NPTF | 88.5          | 71.3 | A+B-17,1 | ø38 | 36 | 36 |  |  |
| 16   | 5/8" | -10  | Q04123341A-10-12 | Q03923341A-10-12 | 3/4" NPTF | 94.6          | 76.4 | A+B-17,6 | ø42 | 36 | 36 |  |  |
| 20   | 3/4" | -12  | Q04123341A-12-12 | Q03923341A-12-12 | 3/4" NPTF | 108           | 89.8 | A+B-21.7 | ø48 | 41 | 41 |  |  |
| 25   | 1"   | -16  | Q04123341A-16-16 | Q03923341A-16-16 | 1" NPTF   | 119.4         | 92.1 | A+B-22,9 | ø55 | 50 | 50 |  |  |

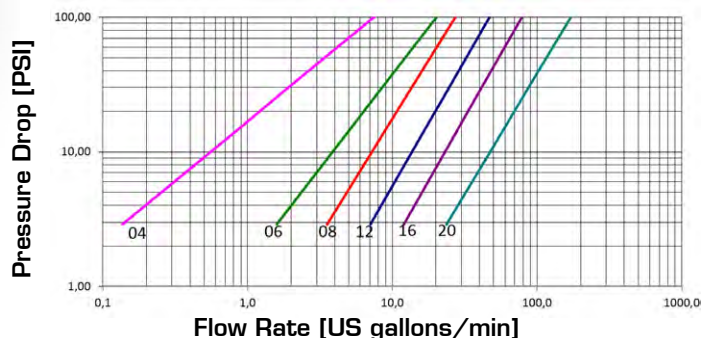


# STAINLESS STEEL SCREW TYPE HEAVY DUTY

Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |       |      | MPa |      | FLOW RATE |        | OIL SPILLAGE<br>Connection/<br>Disconnection |            | MINIMUM BURST PRESSURE |       |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE |  |
|------|-------|------|-----|------|-----------|--------|----------------------------------------------|------------|------------------------|-------|--------|-------|-------|-------|------------------------------------------------|--|
| DN   | inch  | Dash | MPa | PSI  | l/min     | US GPM | cc.                                          | cubic inch | Male                   |       | Female |       | M & F |       |                                                |  |
|      |       |      |     |      |           |        |                                              |            | MPa                    | PSI   | MPa    | PSI   | MPa   | PSI   |                                                |  |
| 6    | 1/4"  | 04   | 50  | 7250 | 10        | 2.6    | 0.4                                          | 0.024      | 220                    | 31900 | 350    | 50750 | 350   | 50750 | Not allowed                                    |  |
| 10   | 3/8   | 06   | 35  | 5075 | 31        | 8.2    | 1.5                                          | 0.092      | 150                    | 21750 | 180    | 26100 | 180   | 26100 | Not allowed                                    |  |
| 12.5 | 1/2   | 08   | 35  | 5075 | 51        | 13.5   | 2                                            | 0.134      | 140                    | 20300 | 220    | 31900 | 250   | 36250 | Not allowed                                    |  |
| 20   | 3/4   | 12   | 32  | 4640 | 92        | 24.3   | 4                                            | 0.244      | 130                    | 18850 | 220    | 31900 | 200   | 29000 | Not allowed                                    |  |
| 25   | 1     | 16   | 32  | 4640 | 156       | 41.2   | 7.5                                          | 0.458      | 130                    | 18850 | 180    | 26100 | 180   | 26100 | Not allowed                                    |  |
| 31   | 1 1/4 | 20   | 30  | 4350 | 325       | 85.9   | 15                                           | 0.916      | 120                    | 17400 | 150    | 21750 | 160   | 23200 | Not allowed                                    |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Screw-on connection/disconnection system
- Sleeve with hexagon area internal components reinforced, made in steel
- Hardened valve bodies
- Three-part poppet valve with a moulded shaped seal
- Mechanical backstop to prevent partial enclosures of valves due to peaks and reverse flow
- Interchangeable with other products and widely used on the market
- Accessories (plugs and caps) and spare part kits available
- Wide range of termination ends
- FKM (VITON) seal

## MATERIAL

Couplings in steel with some stressed area hardened.  
Carbonitrided valve, springs in C98 steel, FKM (VITON) seal and back-up ring in PTFE

## WORKING TEMPERATURE

-25°C up to +200°C

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

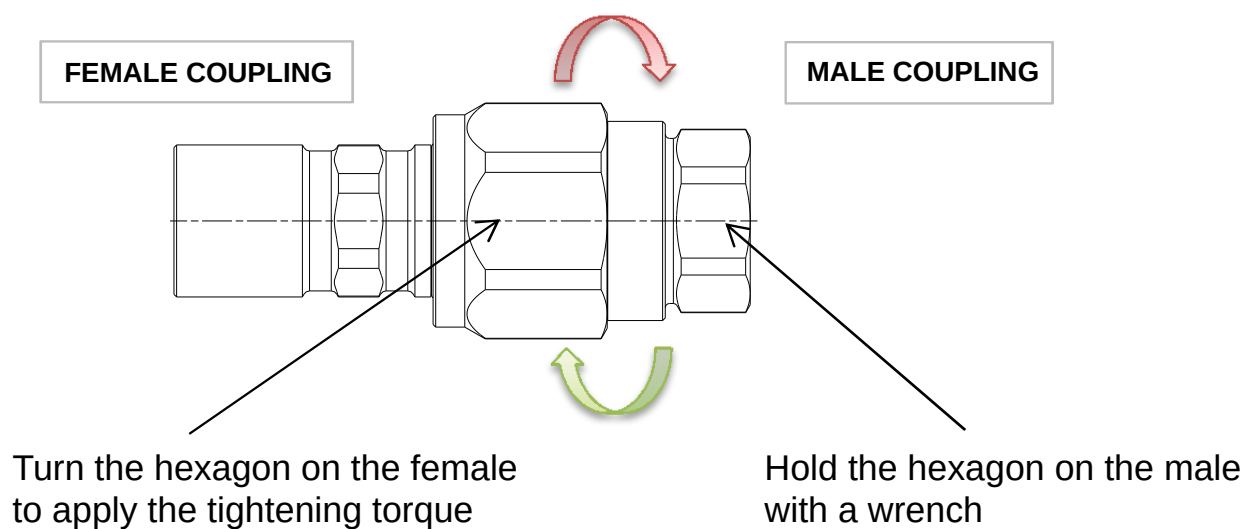
200,000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

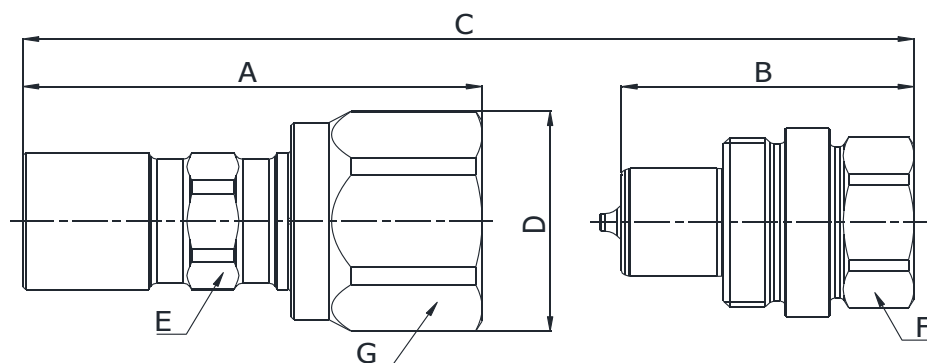
## ASSEMBLY INSTRUCTIONS

## RECOMMENDED TIGHTENING TORQUES



| SIZE |        |      | TIGHTENING TORQUE |
|------|--------|------|-------------------|
| DN   | Inch   | Dash | Nm                |
| 6    | 1/4"   | -04  | 50                |
| 10   | 3/8"   | -06  | 70                |
| 12.5 | 1/2"   | -08  | 100               |
| 19   | 3/4"   | -12  | 150               |
| 25   | 1"     | -16  | 250               |
| 31   | 1-1/4" | -20  | 400               |

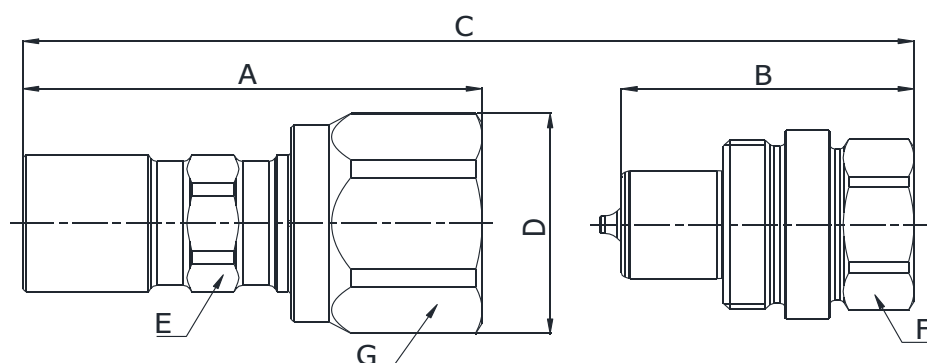




**Q05423041A**  
**Q05323041A**

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE

| SIZE |        |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |      |          |       |    |    |    |  |
|------|--------|------|------------------|------------------|--------|---------------|------|----------|-------|----|----|----|--|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |        | A             | B    | C        | D     | E  | F  | G  |  |
| 6.3  | 1/4"   | -04  | Q05423041A-04-04 | Q05323041A-04-04 | 1/4"   | 63            | 42.2 | A+B-20.4 | ø35   | 19 | 22 | 32 |  |
| 10   | 3/8"   | -06  | Q05423041A-06-06 | Q05323041A-06-06 | 3/8"   | 72.5          | 46.2 | A+B-25.9 | ø38,5 | 22 | 27 | 35 |  |
| 12.5 | 1/2"   | -08  | Q05423041A-08-08 | Q05323041A-08-08 | 1/2"   | 82.1          | 54.4 | A+B-27.3 | ø45   | 27 | 32 | 41 |  |
| 20   | 3/4"   | -12  | Q05423041A-12-12 | Q05323041A-12-12 | 3/4"   | 93.7          | 61.4 | A+B-31.9 | ø55   | 35 | 41 | 50 |  |
| 25   | 1"     | -16  | Q05423041A-16-16 | Q05323041A-16-16 | 1"     | 105.8         | 68.3 | A+B-37   | ø66   | 41 | 50 | 60 |  |
| 31.5 | 1.1/4" | -20  | Q05423041A-20-20 | Q05323041A-20-20 | 1.1/4" | 131.9         | 82   | A+B-53.9 | ø88   | 55 | 70 | 80 |  |



**Q05423341A**  
**Q05323341A**

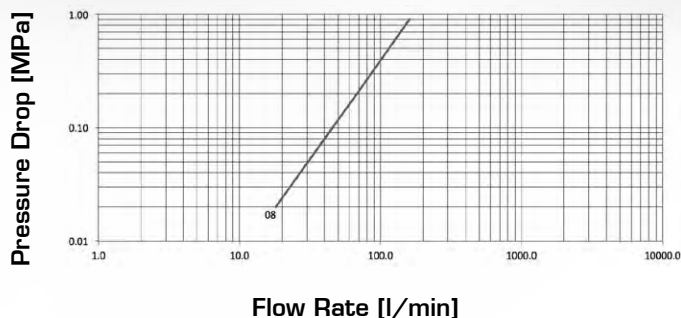
NPTF TERMINATION END  
TO ANSI B 1.20.3

| SIZE |        |      | PART NUMBER      |                  | THREAD      | DIMENSIONS mm |      |          |       |    |    |    |  |
|------|--------|------|------------------|------------------|-------------|---------------|------|----------|-------|----|----|----|--|
| DN   | Inch   | Dash | Female coupling  | Male coupling    |             | A             | B    | C        | D     | E  | F  | G  |  |
| 6.3  | 1/4"   | -04  | Q05423341A-04-04 | Q05323341A-04-04 | 1/4" NPTF   | 63            | 42.2 | A+B-20.4 | ø35   | 19 | 22 | 32 |  |
| 10   | 3/8"   | -06  | Q05423341A-06-06 | Q05323341A-06-06 | 3/8" NPTF   | 72.5          | 46.2 | A+B-25.9 | ø38,5 | 22 | 27 | 35 |  |
| 12.5 | 1/2"   | -08  | Q05423341A-08-08 | Q05323341A-08-08 | 1/2" NPTF   | 82.1          | 54.4 | A+B-27.3 | ø45   | 27 | 32 | 41 |  |
| 20   | 3/4"   | -12  | Q05423341A-12-12 | Q05323341A-12-12 | 3/4" NPTF   | 93.7          | 61.4 | A+B-31.9 | ø55   | 35 | 41 | 50 |  |
| 25   | 1"     | -16  | Q05423341A-16-16 | Q05323341A-16-16 | 1" NPTF     | 105.8         | 68.3 | A+B-37   | ø66   | 41 | 50 | 60 |  |
| 31.5 | 1.1/4" | -20  | Q05423341A-20-20 | Q05323341A-20-20 | 1.1/4" NPTF | 131.9         | 82   | A+B-53.9 | ø88   | 55 | 70 | 80 |  |

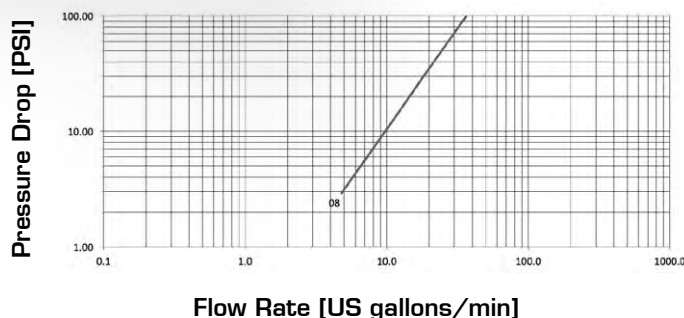


## DHI TYPE ISO A POPPET VALVE

Pressure Drop



Pressure Drop



### TECHNICAL DATA

|  |      |      |  |      |  |        |  |      |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE<br>(Dynamic)                                                       |      | RATED FLOW<br>at 0.2 MPa<br>of pressure drop                                        |        | CONNECTION EFFORT                                                                   |      | OIL SPILLAGE<br>Connection/<br>Disconnection                                        |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION/<br>DISCONNECTION<br>UNDER PRESSURE                                        |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb.  | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |      |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 68                                                                                  | 18.0   | 80                                                                                  | 18.0 | 1.8                                                                                 | 0.110      | 125                                                                                   | 18125 | 150    | 21750 | 150   | 21750 | Not allowed                                                                           |  |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Dimensional and performance requirements conform to ISO 7241-1 series A, ensuring worldwide interchangeability
- Connect by pulling back the sleeve (with female ISO A)
- Positive connection by the locking ball system
- Shut-off poppet valve provides an effective hydraulic sealing
- When female bulkhead is mounted on the outside sleeve (PUSH-PULL), the coupling ensures breakaway features according to ISO 5675

### MATERIAL

Female coupling in steel with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel. Carbonitrided valve and sleeve, springs in C98 steel, seals in NBR (other materials available on request) and back-up ring in PTFE

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For other temperatures, the coupling may be assembled with the specific seals

### SAFETY FACTOR

4:1 for dynamic pressures

### IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

### TEST SPECIFICATIONS

ISO 18869

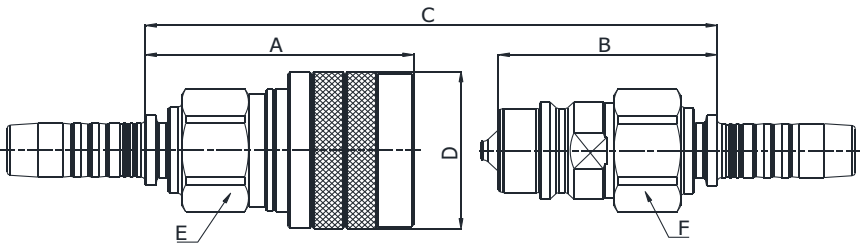


Quick release couplings DHI maintenance without flexible hose replacement



Q30811MF1A  
Q30211MF1A

ISO A COUPLING  
MULTIFIT INSERT

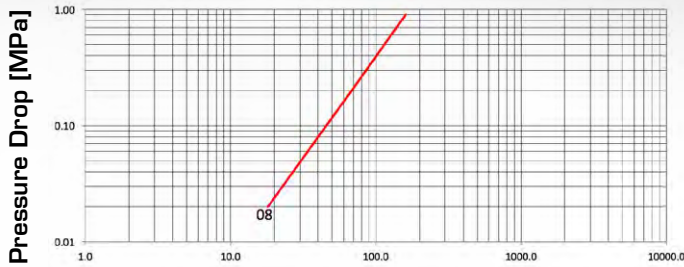


| SIZE |      |      | PART NUMBER      |                  | HOSE BORE |       |      | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|-------|------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    | DN        | Inch  | Dash | A             | B    | C        | D   | E  | F  |
| 12.5 | 1/2" | -08  | Q30811MF1A-08-04 | Q30211MF1A-08-04 | 6         | 1/4"  | -04  | 62.5          | 51.3 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q30811MF1A-08-05 | Q30211MF1A-08-05 | 8         | 5/16" | -05  | 62.5          | 51.3 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q30811MF1A-08-06 | Q30211MF1A-08-06 | 10        | 3/8"  | -06  | 62            | 50.8 | A+B-21,8 | ø38 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q30811MF1A-08-08 | Q30211MF1A-08-08 | 12        | 1/2"  | -08  | 60.4          | 49.2 | A+B-21,8 | ø38 | 27 | 27 |



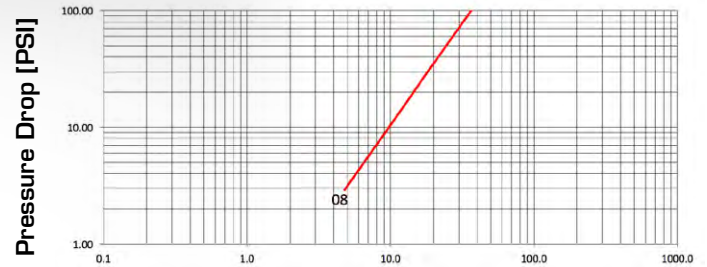
# DHI TYPE ISO A PUSH-PULL POPPET VALVE

Pressure Drop



Flow Rate [l/min]

Pressure Drop



Flow Rate [US gallons/min]

## TECHNICAL DATA

|  |      |      |  |      |  |        |  |     |  |            |  |       |  |             |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|-------------|
| SIZE                                                                                |      |      | WORKING PRESSURE [Dynamic]                                                          |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | CONNECTION EFFORT                                                                   |     | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       | CONNECTION/ DISCONNECTION UNDER PRESSURE                                              |             |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb. | cc.                                                                                 | cubic inch | Male                                                                                  |       | M & F                                                                                 |             |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |            | MPa                                                                                   | PSI   | MPa                                                                                   | PSI         |
| 12.5                                                                                | ½    | 08   | 30                                                                                  | 4350 | 68                                                                                  | 18.0   | 110                                                                                 | 244 | 2                                                                                   | 0.122      | 140                                                                                   | 20300 | 140                                                                                   | 20300       |
|                                                                                     |      |      |                                                                                     |      |                                                                                     |        |                                                                                     |     |                                                                                     |            |                                                                                       |       |                                                                                       | Not allowed |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Female coupling designed for agriculture applications, connectable with ISO 7241-1 series A male couplings
- PUSH-PULL connection and disconnection system, in case of bulkhead mounting on the external sleeve
- Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve)
- Positive connection by latching balls system
- Shut-off by poppet valve
- High resistant materials
- Dimensions and performances according to ISO 7241-1 series A

## MATERIAL

Female couplings in steel with some hardened areas, in correspondence to the most stressed points. Carbonitrided valve and sleeve, springs in C98 steel, latching balls in high resistance 100 C6 steel, seals in NBR (other materials on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures, the coupling is assembled with specific seals

## SAFETY FACTOR

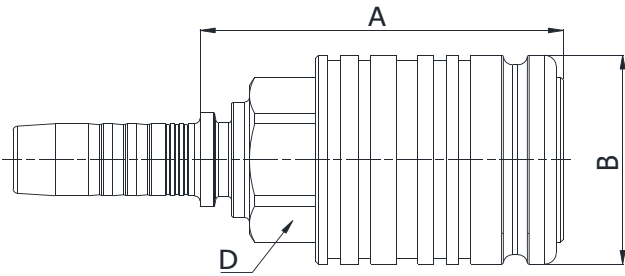
4:1 for dynamic pressures

## IMPULSE PRESSURES

100,000 cycles at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

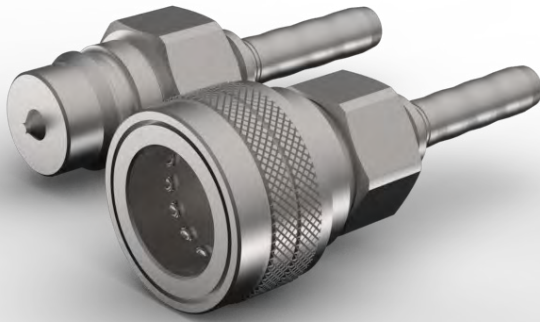
ISO 18869



Q31311MF1A

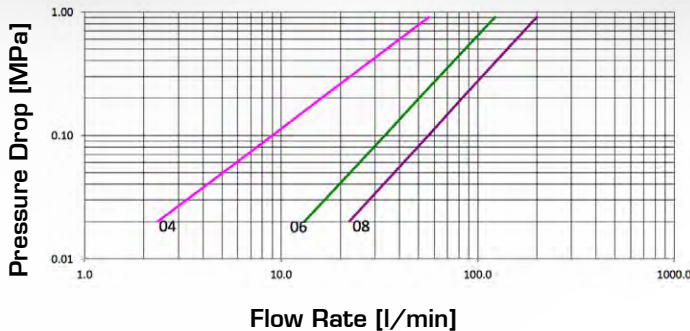
FEMALE PUSH PULL COUPLING  
MULTIFIT INSERT

| SIZE |      |      | PART NUMBER      | HOSE BORE |       |      | DIMENSIONS mm |     |    |  |  |  |
|------|------|------|------------------|-----------|-------|------|---------------|-----|----|--|--|--|
| DN   | Inch | Dash | Female coupling  | DN        | Inch  | Dash | A             | B   | D  |  |  |  |
| 12.5 | 1/2" | -08  | Q31311MF1A-08-04 | 6         | 1/4"  | -04  | 62.5          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q31311MF1A-08-05 | 8         | 5/16" | -05  | 62.5          | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q31311MF1A-08-06 | 10        | 3/8"  | -06  | 62            | ø38 | 27 |  |  |  |
| 12.5 | 1/2" | -08  | Q31311MF1A-08-08 | 12        | 1/2"  | -08  | 60.4          | ø38 | 27 |  |  |  |

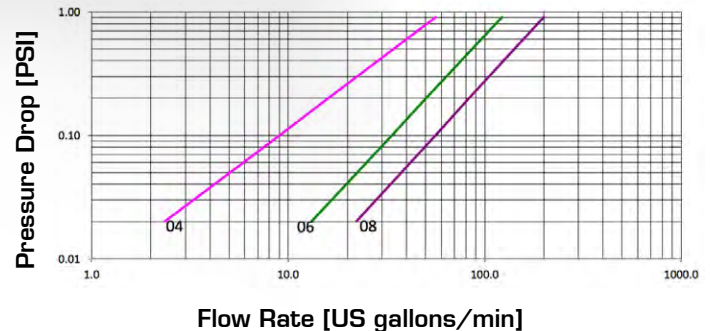


# DHI TYPE ISO B POPPET VALVE

Pressure Drop



Pressure Drop



## TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop |        | CONNECTION EFFORT |      | OIL SPILLAGE Connection/Disconnection |            | MINIMUM BURST PRESSURE |       |        |       | CONNECTION / DISCONNECTION UNDER PRESSURE |       |
|------|------|------|----------------------------|------|----------------------------------------|--------|-------------------|------|---------------------------------------|------------|------------------------|-------|--------|-------|-------------------------------------------|-------|
| DN   | inch | Dash | MPa                        | PSI  | l/min                                  | US GPM | N                 | lb.  | cc.                                   | cubic inch | Male                   |       | Female |       | M & F                                     |       |
|      |      |      |                            |      |                                        |        |                   |      |                                       |            | MPa                    | PSI   | MPa    | PSI   | MPa                                       | PSI   |
| 6.3  | ¼    | 04   | 40                         | 5800 | 16                                     | 4.3    | 40                | 9.0  | 0.8                                   | 0.049      | 180                    | 26100 | 190    | 27550 | 165                                       | 23925 |
| 10   | ⅜    | 06   | 35                         | 5075 | 51                                     | 13.5   | 40                | 9.0  | 1.5                                   | 0.092      | 145                    | 21025 | 160    | 23200 | 160                                       | 23200 |
| 12.5 | ½    | 08   | 35                         | 5075 | 84                                     | 22.0   | 70                | 15.7 | 2.5                                   | 0.153      | 145                    | 21025 | 145    | 21025 | 160                                       | 23200 |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

## PRODUCT DESCRIPTION

- Reference series for all industrial applications
- Simple connection and disconnection by pulling back the sleeve
- Positive, quick connection of the male into the female by latching the ball system
- Shut-off by poppet valve
- High resistant materials
- Interchangeable according to ISO 7241-1 series B

## MATERIAL

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. Springs in C98 steel, seals in NBR (other materials on request) and back-up ring in PTFE

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For other temperatures, the quick coupling is assembled with specific seals

## SAFETY FACTOR

4:1 for dynamic pressures

## IMPULSE PRESSURES

Withstands 100,000 cycles of impulse pressure at 133% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

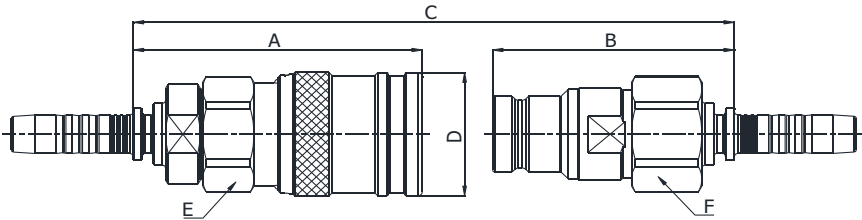
ISO 18869

Q32411MF1A

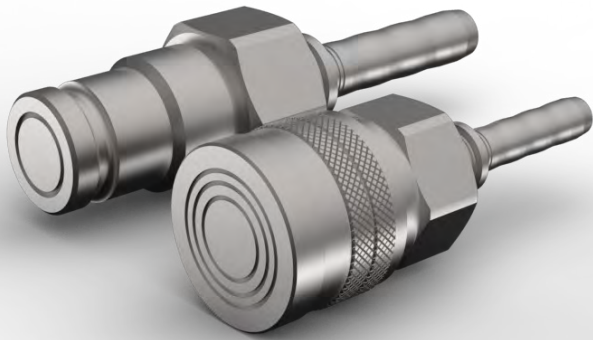
Q32111MF1A

ISO B COUPLINGS

MULTIFIT INSERT

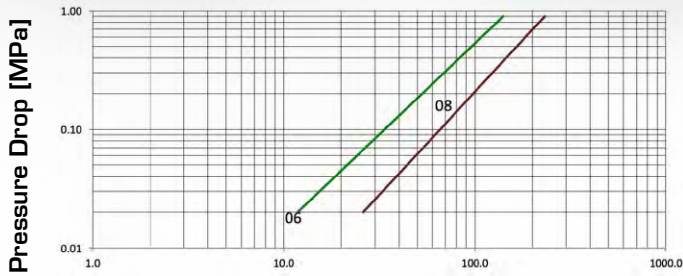


| SIZE |      |      | PART NUMBER      |                  | HOSE BORE |      |      | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|------|------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    | DN        | Inch | Dash | A             | B    | C        | D   | E  | F  |
| 6.3  | 1/4" | -04  | Q32411MF1A-04-06 | Q32111MF1A-04-06 | 10        | 3/8" | -06  | 56            | 45.1 | A+B-21,2 | ø28 | 19 | 19 |
| 10   | 3/8" | -06  | Q32411MF1A-06-06 | Q32111MF1A-06-06 | 10        | 3/8" | -06  | 65.2          | 51.3 | A+B-24,4 | ø35 | 22 | 22 |
| 12.5 | 1/2" | -08  | Q32411MF1A-08-08 | Q32111MF1A-08-08 | 12        | 1/2" | -08  | 72            | 53.7 | A+B-27,2 | ø42 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q30811MF1A-08-08 | Q30211MF1A-08-08 | 12        | 1/2" | -08  | 60.4          | 49.2 | A+B-21,8 | ø38 | 27 | 27 |



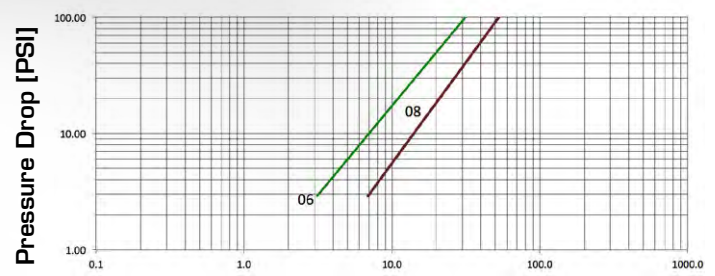
## DHI TYPE FLAT FACE

Pressure Drop



Flow Rate [l/min]

Pressure Drop



Flow Rate [US gallons/min]

### TECHNICAL DATA

|  |      |      |  |      |                                          |      |  |        |  |      |  |            |  |       |        |       |       |       |  |  |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---------------------------------------------------------------------------------------|--|
| SIZE                                                                                |      |      | WORKING PRESSURE CONNECTED [Dynamic]                                                |      | WORKING PRESSURE DISCONNECT-ED [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop                                              |        | CONNECTION EFFORT                                                                   |      | OIL SPILLAGE Connection/ Disconnection                                              |            | MINIMUM BURST PRESSURE                                                                |       |        |       |       |       | CONNECTION WITH FEMALE UNDER PRESSURE [MALE AT 0 MPa]                                 |  |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI  | MPa                                      | PSI  | l/min                                                                               | US GPM | N                                                                                   | lb.  | cc.                                                                                 | cubic inch | Male                                                                                  |       | Female |       | M & F |       |                                                                                       |  |
|                                                                                     |      |      |                                                                                     |      |                                          |      |                                                                                     |        |                                                                                     |      |                                                                                     |            | MPa                                                                                   | PSI   | MPa    | PSI   | MPa   | PSI   |                                                                                       |  |
| 10                                                                                  | %    | 06   | 35                                                                                  | 5075 | 25                                       | 3625 | 54                                                                                  | 14.3   | 130                                                                                 | 29.2 | 0.007                                                                               | 0.0004     | 135                                                                                   | 19575 | 125    | 18125 | 140   | 20300 | Allowed up to 6 MPa                                                                   |  |
| 12.5                                                                                | ½    | 08   | 35                                                                                  | 5075 | 25                                       | 3625 | 86                                                                                  | 22.7   | 150                                                                                 | 33.7 | 0.008                                                                               | 0.0005     | 120                                                                                   | 17400 | 110    | 15950 | 145   | 21025 | Allowed up to 4 MPa                                                                   |  |

Connection with Male under pressure not allowed; Disconnection under pressure not allowed

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Connection is made by pushing the male coupling and disconnection by pulling back the sleeve of the female
- Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection
- Stainless steel springs in the female coupling
- Interchangeability according to ISO 16028 and HTMA standards

### MATERIAL

Female and male coupling in steel, with some stressed tempered or carbonitrided areas. Springs in AISI and C98 steel, seals in polyurethane NBR. Other materials (VITON, EPDM or any others) on request.

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)  
For other temperatures the coupling is assembled with the specified seals

### SAFETY FACTOR

4:1 for dynamic pressures

### IMPULSE PRESSURES

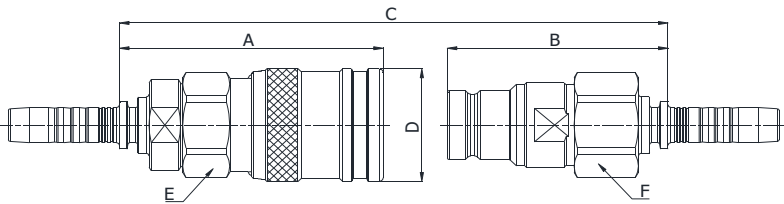
100,000 cycles at 133% of the rated one (freq. 1Hz) in disconnected conditions.  
1,000,000 cycles at 120% of rated one (freq. 1Hz) in connected conditions.

### TEST SPECIFICATIONS

ISO 18869

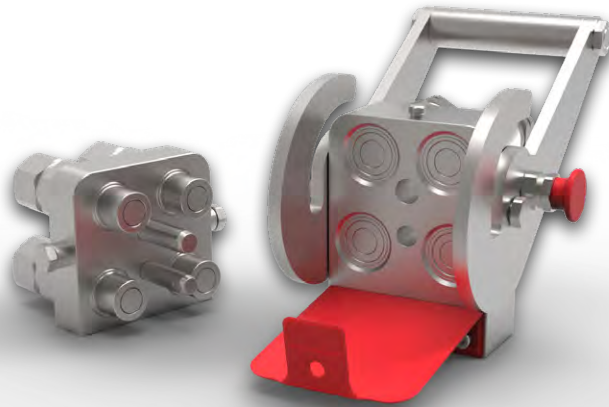
Q34111MF1A  
Q33911MF1A

FLAT FACE COUPLING  
MULTIFIT INSERT

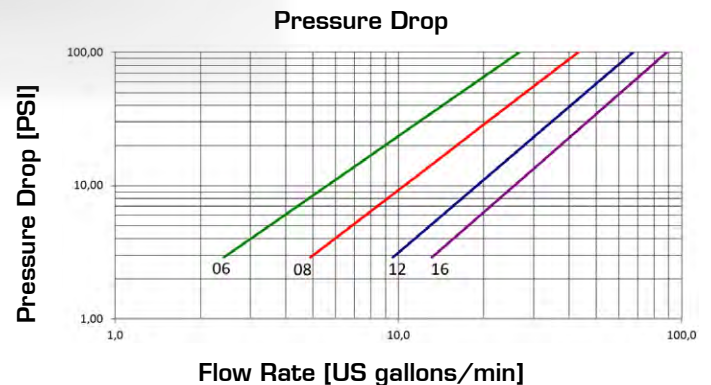
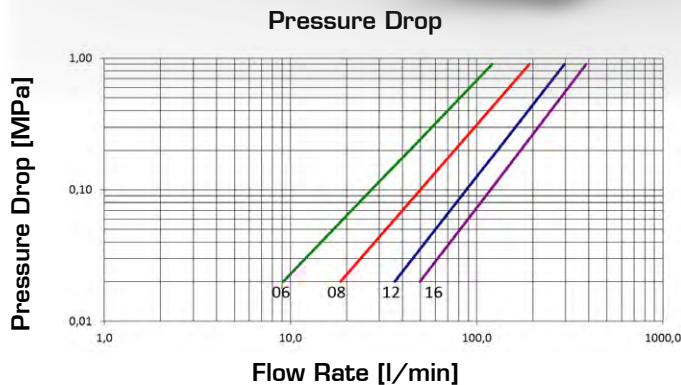


| SIZE |      |      | PART NUMBER      |                  | HOSE BORE |      |      | DIMENSIONS mm |      |          |     |    |    |
|------|------|------|------------------|------------------|-----------|------|------|---------------|------|----------|-----|----|----|
| DN   | Inch | Dash | Female coupling  | Male coupling    | DN        | Inch | Dash | A             | B    | C        | D   | E  | F  |
| 10   | 3/8" | -06  | Q34111MF1A-06-06 | Q33911MF1A-06-06 | 10        | 3/8" | -06  | 69.7          | 58.3 | A+B-15,9 | ø32 | 27 | 27 |
| 10   | 3/8" | -06  | Q34111MF1A-06-08 | Q33911MF1A-06-08 | 12        | 1/2" | -08  | 69.6          | 56.7 | A+B-15,9 | ø32 | 27 | 27 |
| 12.5 | 1/2" | -08  | Q34111MF1A-08-08 | Q33911MF1A-08-08 | 12        | 1/2" | -08  | 78.9          | 66.7 | A+B-17.1 | ø38 | 34 | 34 |
| 12.5 | 1/2" | -08  | Q34111MF1A-08-12 | Q33911MF1A-08-12 | 19        | 3/4" | -12  | 75.8          | 65.1 | A+B-17.1 | ø38 | 34 | 34 |





## FLAT FACE MULTI-CONNECTOR



### TECHNICAL DATA

| SIZE |      |      | WORKING PRESSURE CONNECTED [Dynamic] |       | WORKING PRESSURE DISCONNECTED [Dynamic] |      | RATED FLOW at 0.2 MPa of pressure drop |        | OIL SPILLAGE Connection/Disconnection |            | MINIMUM BURST PRESSURE |        |        |        |       |        | CONNECTION/DISCONNECTION UNDER PRESSURE |
|------|------|------|--------------------------------------|-------|-----------------------------------------|------|----------------------------------------|--------|---------------------------------------|------------|------------------------|--------|--------|--------|-------|--------|-----------------------------------------|
| DN   | inch | Dash | MPa                                  | PSI   | MPa                                     | PSI  | l/min                                  | US GPM | cc.                                   | cubic inch | Male                   |        | Female |        | M & F |        |                                         |
|      |      |      |                                      |       |                                         |      |                                        |        |                                       |            | MPa                    | PSI    | MPa    | PSI    | MPa   | PSI    |                                         |
| 10   | 3/8" | 06   | 35                                   | 5,075 | 35                                      | 5075 | 44                                     | 11.6   | 0.007                                 | 0.0004     | 170                    | 24,650 | 140    | 20,300 | 180   | 26,100 | Allowed                                 |
| 12.5 | 1/2" | 08   | 35                                   | 5,075 | 35                                      | 5075 | 76                                     | 20.1   | 0.008                                 | 0.0005     | 170                    | 24,650 | 140    | 20,300 | 180   | 26,100 | Allowed                                 |
| 19   | 3/4" | 12   | 35                                   | 5,075 | 35                                      | 5075 | 129                                    | 34.1   | 0.009                                 | 0.0005     | 140                    | 20,300 | 140    | 20,300 | 160   | 23,200 | Allowed                                 |
| 25   | 1"   | 16   | 35                                   | 5,075 | 35                                      | 5075 | 172                                    | 45.4   | 0.02                                  | 0.0012     | 160                    | 23,200 | 150    | 21,750 | 160   | 23,200 | Allowed                                 |

The rated flow represents the normal operating condition. The maximum recommended flow rate is equal to 1.5 times the rated flow

### PRODUCT DESCRIPTION

- Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection
- Lever provides simultaneous connection / disconnection of couplings
- Positive, quick connection of the male into the female by the lever
- Shut-off by flat valve
- 1,000,000 cycles at 120% of rated (freq. 1Hz)

### MATERIAL

Female and male coupling in steel, with springs in AISI and C98 steel, seals in polyurethane and NBR. Other materials (VITON, EPDM or any others) on request

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

For other temperatures the coupling is assembled with the specified seals

### SAFETY FACTOR

4:1 for dynamic pressures

### IMPULSE PRESSURES

1,000,000 cycles at 120% of rated one (freq. 1Hz) in connected and disconnected conditions.

### TEST SPECIFICATIONS

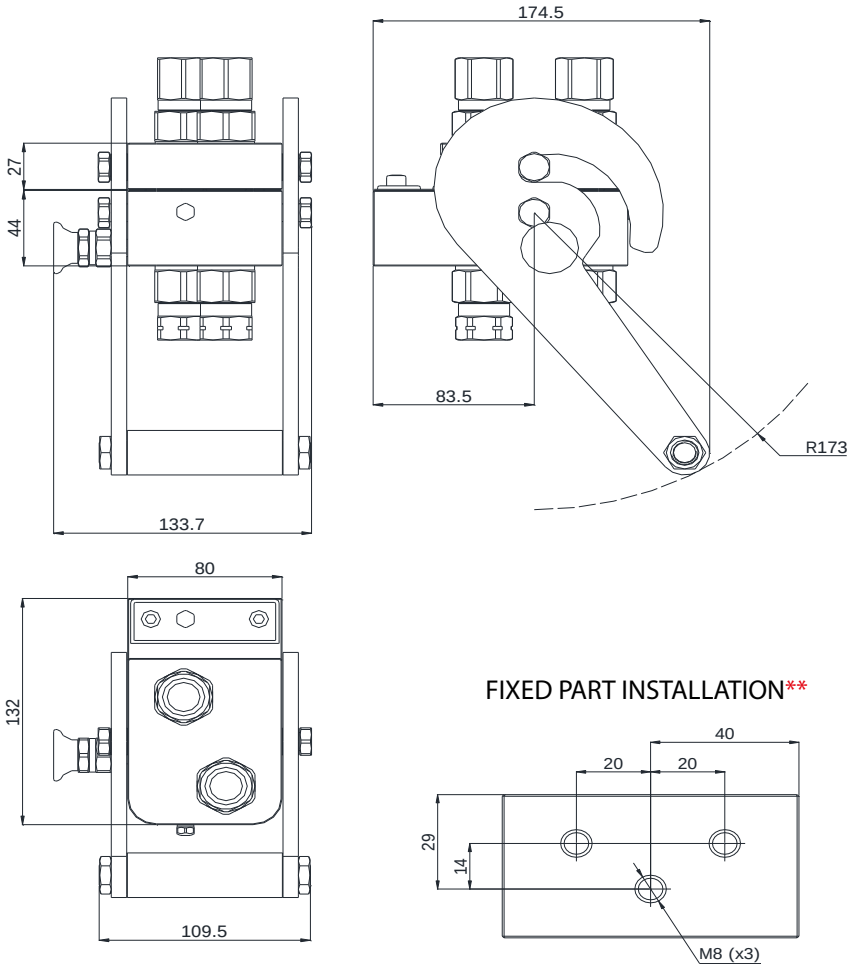
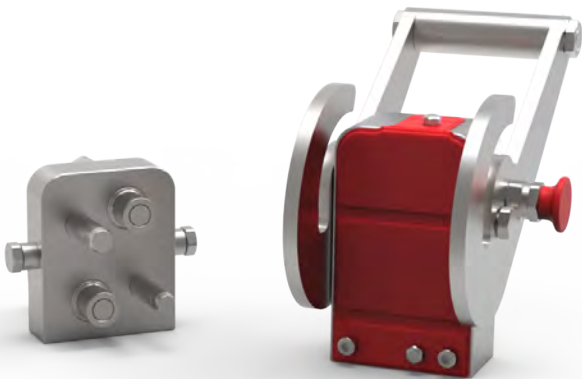
ISO 18869



Q401 SERIES

2 LINE MULTI-COUPLING  
DOUBLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request  
\*\* Plate adaptor for frontal fixing available



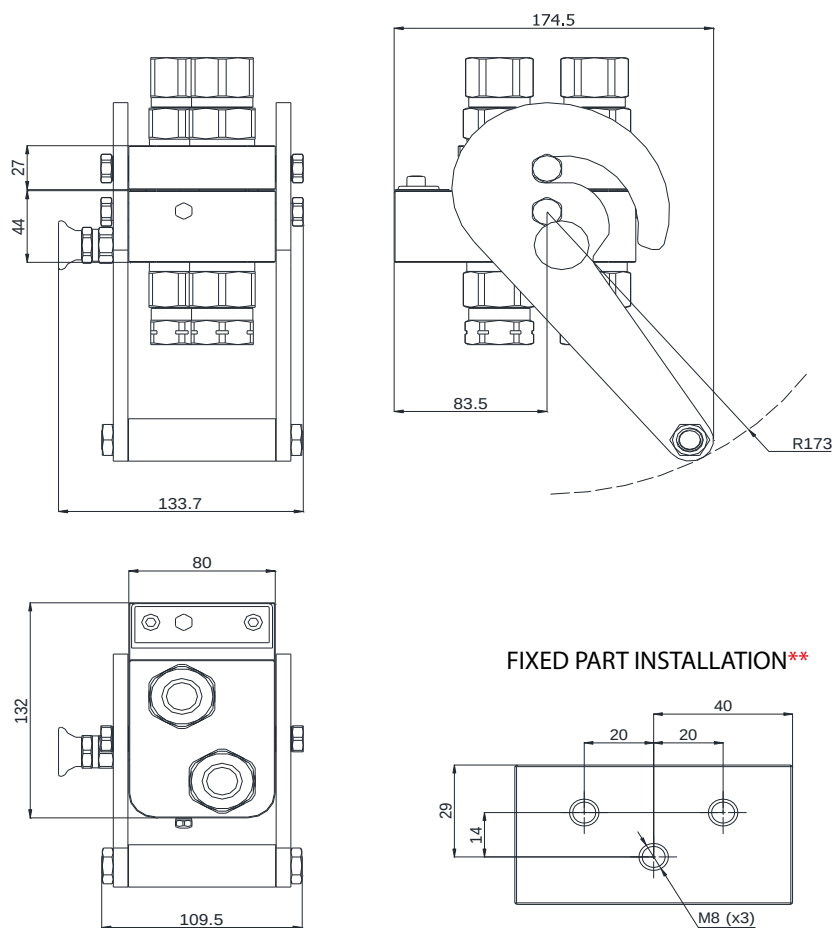
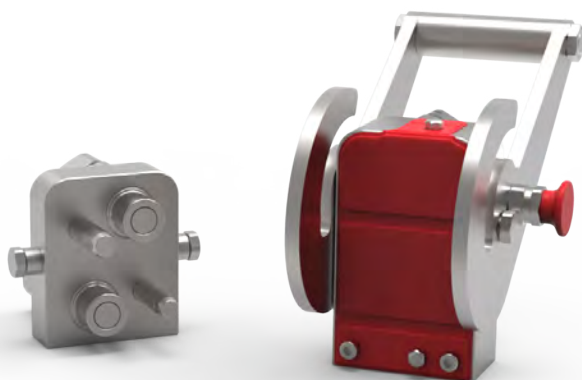
| MULTI-COUPLING |                |      |      |      | TERMINATION END * |                             |          |
|----------------|----------------|------|------|------|-------------------|-----------------------------|----------|
| PART NUMBER    |                | SIZE |      |      | LINES             | DESCRIPTION                 | THREAD   |
| Fixed          | Mobile         | DN   | Inch | Dash |                   |                             |          |
| Q401B0F-041-06 | Q401B0M-041-06 | 10   | 3/8" | -06  | 2                 | BSP FEMALE DIN3852-2 TYPE X | 3/8" BSP |
| Q401B0F-041-08 | Q401B0M-041-08 | 10   | 3/8" | -06  | 2                 | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

## Q402 SERIES

2 LINE MULTI-COUPLING  
DOUBLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request  
\*\* Plate adaptor for frontal fixing available



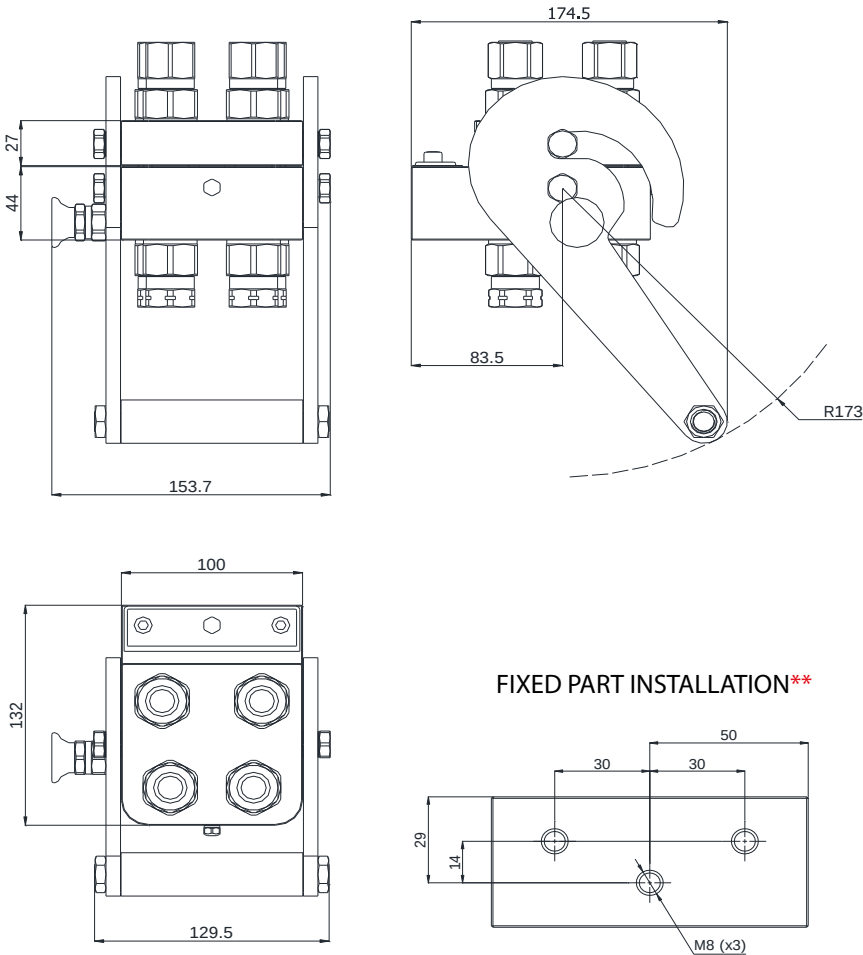
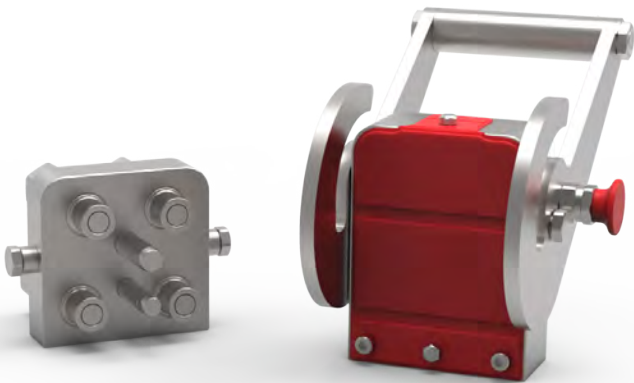
| MULTI-COUPLING |                |      |      |      | TERMINATION END * |                             |          |
|----------------|----------------|------|------|------|-------------------|-----------------------------|----------|
| PART NUMBER    |                | SIZE |      |      | LINES             | DESCRIPTION                 | THREAD   |
| Fixed          | Mobile         | DN   | Inch | Dash |                   |                             |          |
| Q402B0F-041-08 | Q402B0M-041-08 | 12.5 | 1/2" | -08  | 2                 | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |
| Q402B0F-041-12 | Q402B0M-041-12 | 12.5 | 1/2" | -08  | 2                 | BSP FEMALE DIN3852-2 TYPE X | 3/4" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

Q403 SERIES

4 LINE MULTI-COUPLING  
DOUBLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request  
\*\* Plate adaptor for frontal fixing available



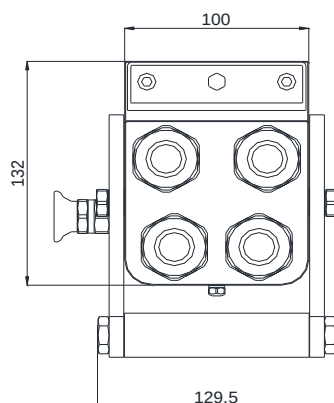
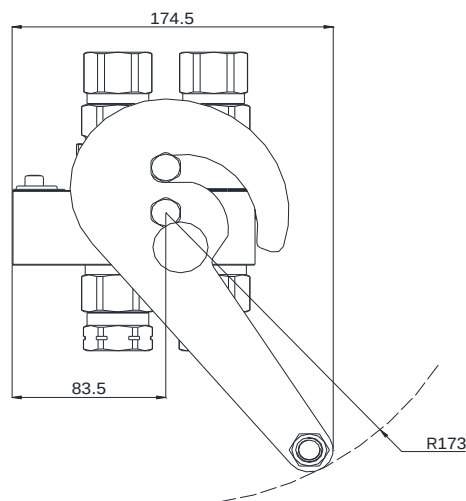
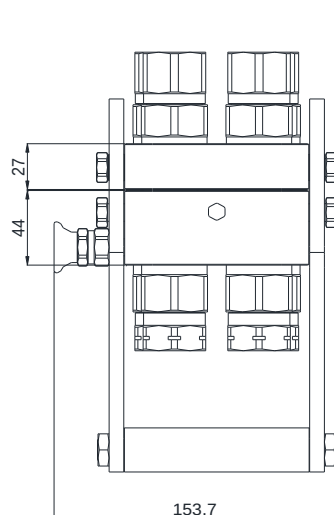
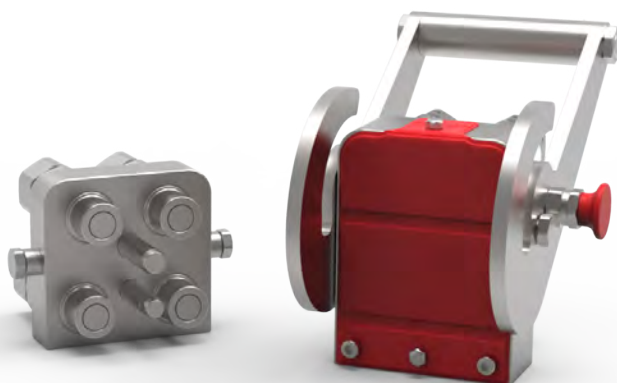
| MULTI-COUPLING |                |      |      |      | TERMINATION END * |                                 |
|----------------|----------------|------|------|------|-------------------|---------------------------------|
| PART NUMBER    |                | SIZE |      |      | LINES             | DESCRIPTION                     |
| Fixed          | Mobile         | DN   | Inch | Dash |                   | THREAD                          |
| Q403D0F-041-06 | Q403D0M-041-06 | 10   | 3/8" | -06  | 4                 | BSP FEMALE DIN3852-2 TYPE X     |
| Q403D0F-120-20 | Q403D0M-120-20 | 10   | 3/8" | -06  | 4                 | METRIC MALE ISO 8434-1 S SERIES |

\* Alternative termination ends can be provided - please ask your sales rep for details

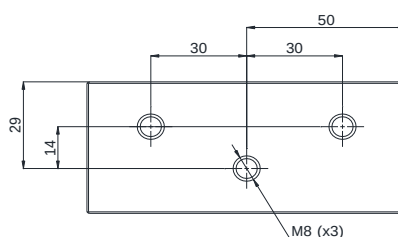
## Q404 SERIES

4 LINE MULTI-COUPLING  
DOUBLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request  
\*\* Plate adaptor for frontal fixing available



## FIXED PART INSTALLATION\*\*

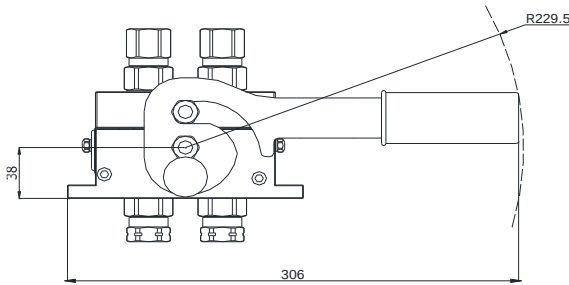
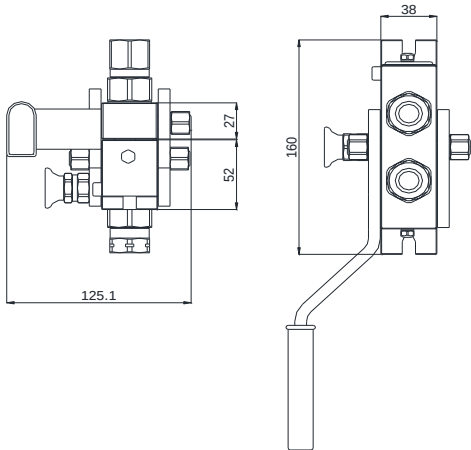


| MULTI-COUPLING |                |      |      |      | TERMINATION END * |                             |               |
|----------------|----------------|------|------|------|-------------------|-----------------------------|---------------|
| PART NUMBER    |                | SIZE |      |      | LINES             | DESCRIPTION                 | THREAD        |
| Fixed          | Mobile         | DN   | Inch | Dash |                   |                             |               |
| Q404D0F-041-08 | Q404D0M-041-08 | 12.5 | 1/2" | -08  | 4                 | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP      |
| Q404C0F-AA     | -              | 12.5 | 1/2" | -08  | 1                 | ORFS MALE ISO 8434-3        | 13/16"-16 UN  |
|                |                |      |      |      | 2                 | ORFS MALE ISO 8434-3        | 1-3/16"-12 UN |
| -              | Q404C0M-AA     | 12.5 | 1/2" | -08  | 1                 | BSP MALE ISO 8434-6         | 1/2" BSP      |
|                |                |      |      |      | 2                 | BSP MALE ISO 8434-6         | 3/4" BSP      |

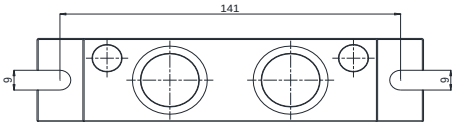
\* Alternative termination ends can be provided - please ask your sales rep for details

Q405 SERIES

2 LINE MULTI-COUPLING  
SINGLE-SIDED LEVER  
LOCKING POSITION: LEFT



FIXED PART INSTALLATION\*\*



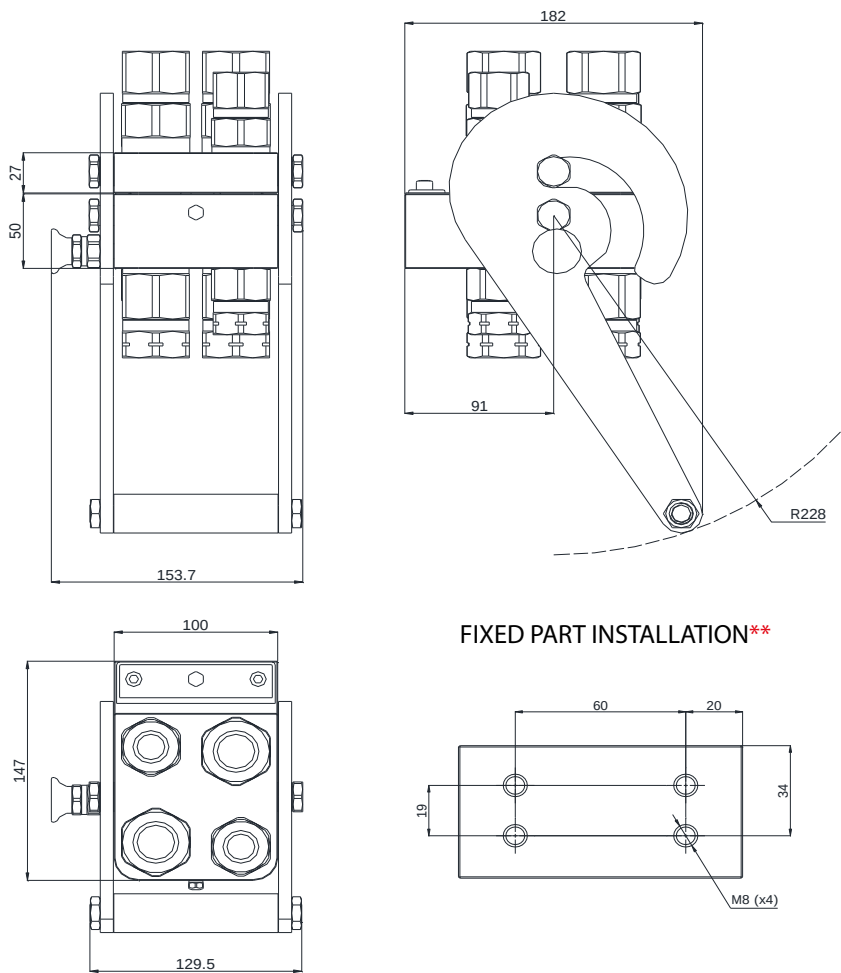
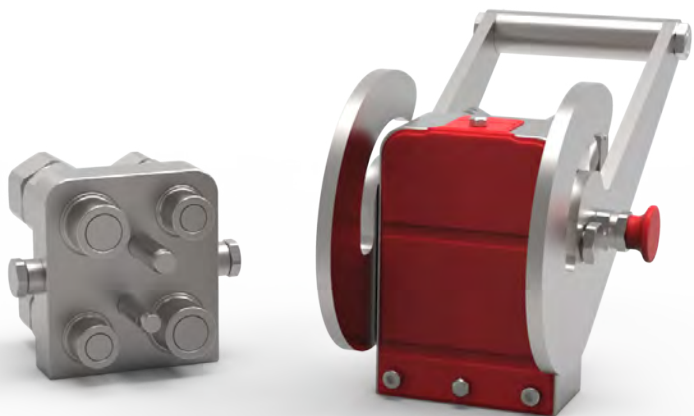
| MULTI-COUPLING |                |      |      |      |       | TERMINATION END*            |          |
|----------------|----------------|------|------|------|-------|-----------------------------|----------|
| PART NUMBER    |                | SIZE |      |      | LINES | DESCRIPTION                 | THREAD   |
| Fixed          | Mobile         | DN   | Inch | Dash |       |                             |          |
| Q405B0F-041-06 | Q405B0M-041-06 | 10   | 3/8" | -06  | 2     | BSP FEMALE DIN3852-2 TYPE X | 3/8" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

## Q406 SERIES

2+2 LINE MULTI-COUPLING  
DOUBLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request  
\*\* Plate adaptor for frontal fixing available



FIXED PART INSTALLATION\*\*

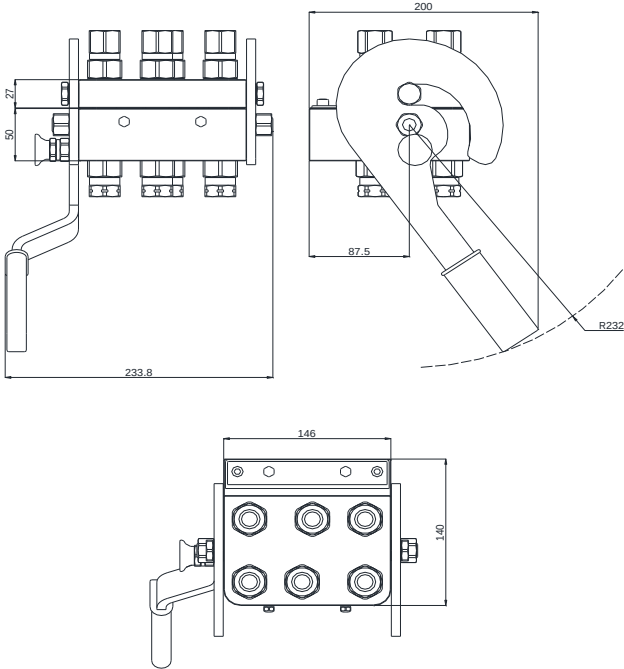
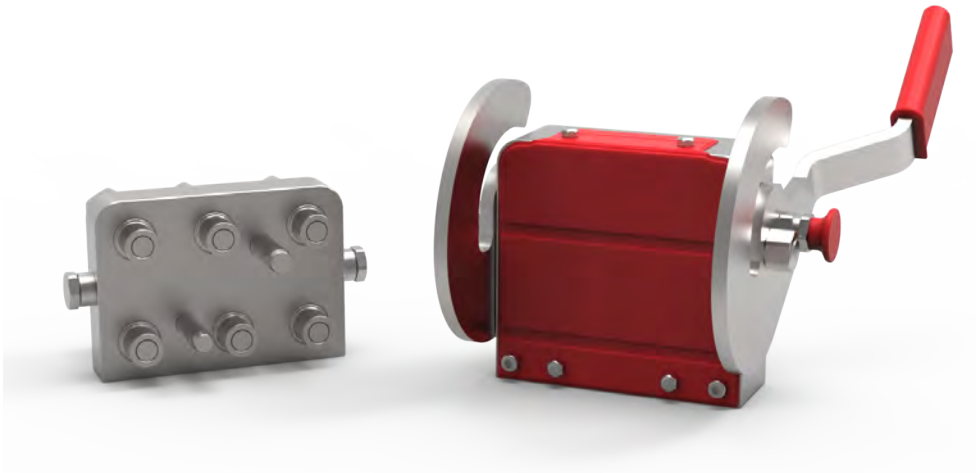
| MULTI-COUPLING |            |      |      |      |       | TERMINATION END*            |          |
|----------------|------------|------|------|------|-------|-----------------------------|----------|
| PART NUMBER    |            | SIZE |      |      | LINES | DESCRIPTION                 | THREAD   |
| Fixed          | Mobile     | DN   | Inch | Dash |       |                             |          |
| Q406D0F-AA     | Q406D0M-AA | 12.5 | 1/2" | -08  | 2     | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |
|                |            | 19   | 3/4" | -12  | 2     | BSP FEMALE DIN3852-2 TYPE X | 3/4" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

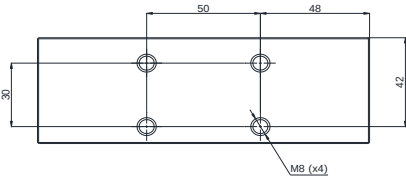
Q407 SERIES

6 LINE MULTI-COUPLING  
SINGLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request



FIXED PART INSTALLATION\*\*



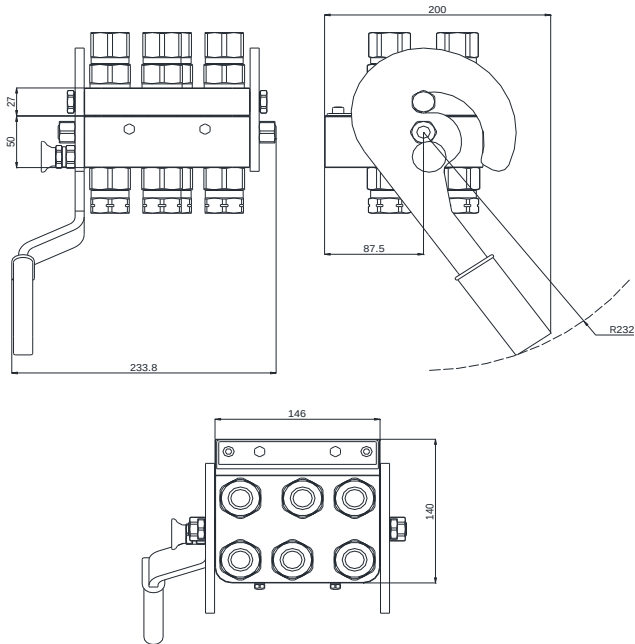
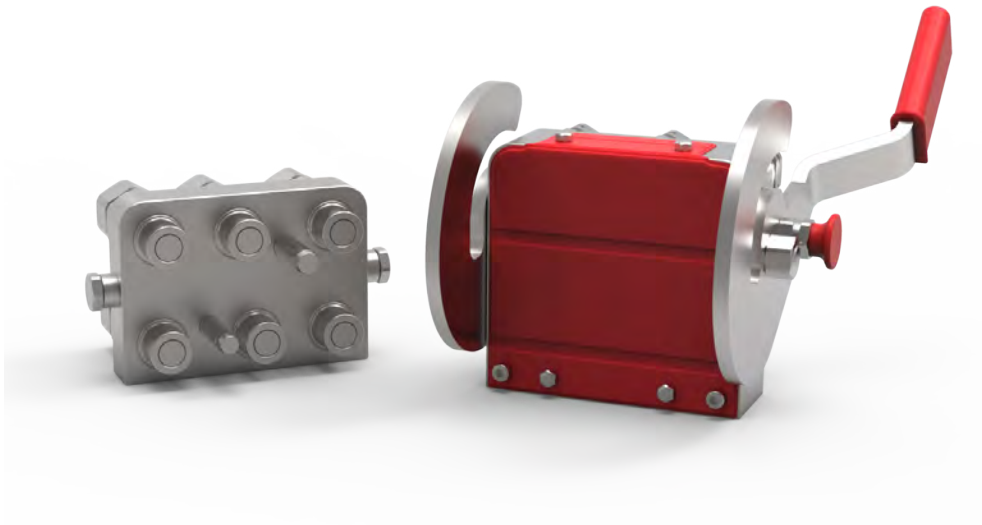
| MULTI-COUPLING   |                  |      |      |      |       | TERMINATION END *           |          |
|------------------|------------------|------|------|------|-------|-----------------------------|----------|
| PART NUMBER      |                  | SIZE |      |      | LINES | DESCRIPTION                 | THREAD   |
| Fixed            | Mobile           | DN   | Inch | Dash |       |                             |          |
| Q407F0F-041-06   | Q407F0M-041-06   | 10   | 3/8" | -06  | 6     | BSP FEMALE DIN3852-2 TYPE X | 3/8" BSP |
| Q407E0F-041-06AA | Q407E0M-041-06AA | 10   | 3/8" | -06  | 5     | BSP FEMALE DIN3852-2 TYPE X | 3/8" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

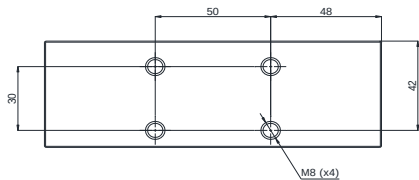
## Q408 SERIES

6 LINE MULTI-COUPLING  
SINGLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request



FIXED PART INSTALLATION\*\*



| MULTI-COUPLING |                |      |      |      | TERMINATION END* |                             |          |
|----------------|----------------|------|------|------|------------------|-----------------------------|----------|
| PART NUMBER    |                | SIZE |      |      | LINES            | DESCRIPTION                 | THREAD   |
| Fixed          | Mobile         | DN   | Inch | Dash |                  |                             |          |
| Q408F0F-041-08 | Q408F0M-041-08 | 12.5 | 1/2" | -08  | 6                | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |

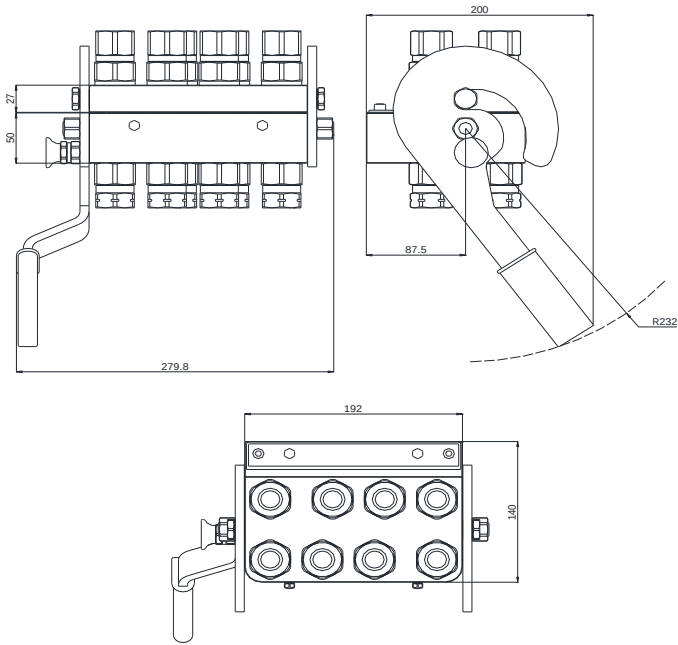
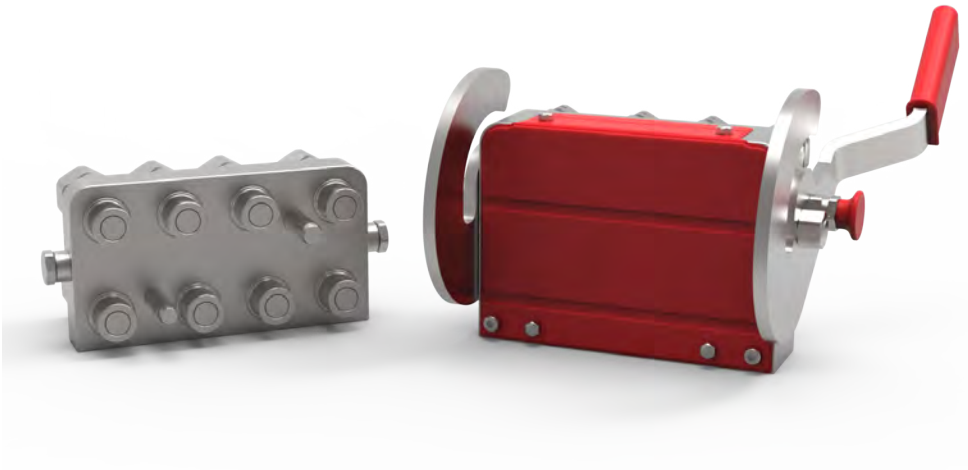
\* Alternative termination ends can be provided - please ask your sales rep for details



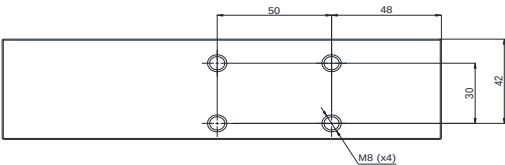
Q409 SERIES

8 LINE MULTI-COUPLING  
SINGLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request



FIXED PART INSTALLATION\*\*



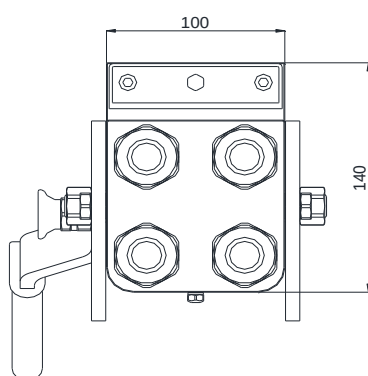
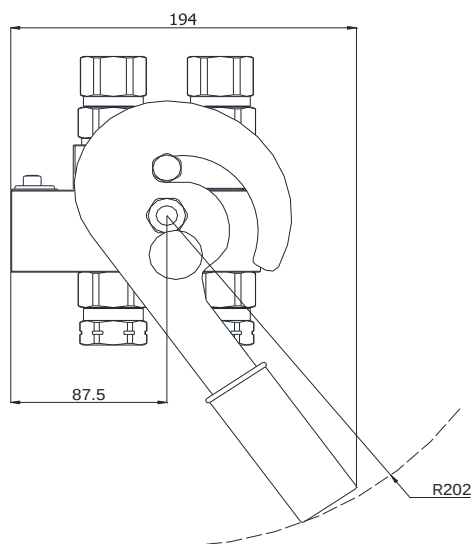
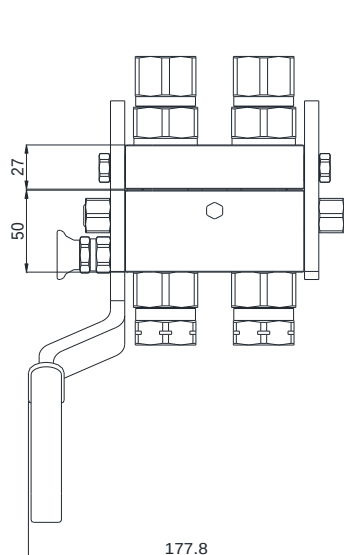
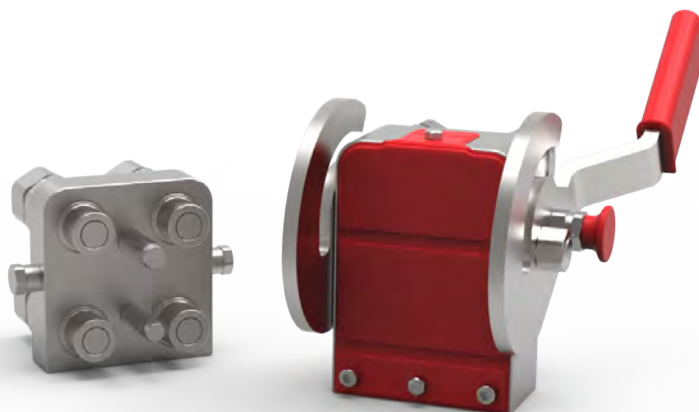
| MULTI-COUPLING |                |      |      |      | TERMINATION END * |                             |          |
|----------------|----------------|------|------|------|-------------------|-----------------------------|----------|
| PART NUMBER    |                | SIZE |      |      | LINES             | DESCRIPTION                 | THREAD   |
| Fixed          | Mobile         | DN   | Inch | Dash |                   |                             |          |
| Q409H0F-041-08 | Q409H0M-041-08 | 12.5 | 1/2" | -08  | 8                 | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

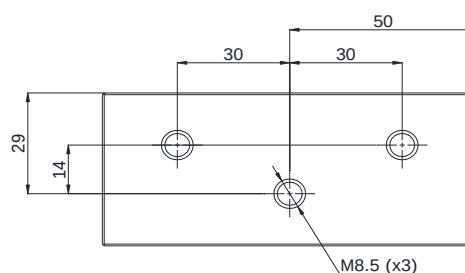
## Q410 SERIES

4 LINE MULTI-COUPLING  
SINGLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request  
\*\* Plate adaptor for frontal fixing available



## FIXED PART INSTALLATION\*\*



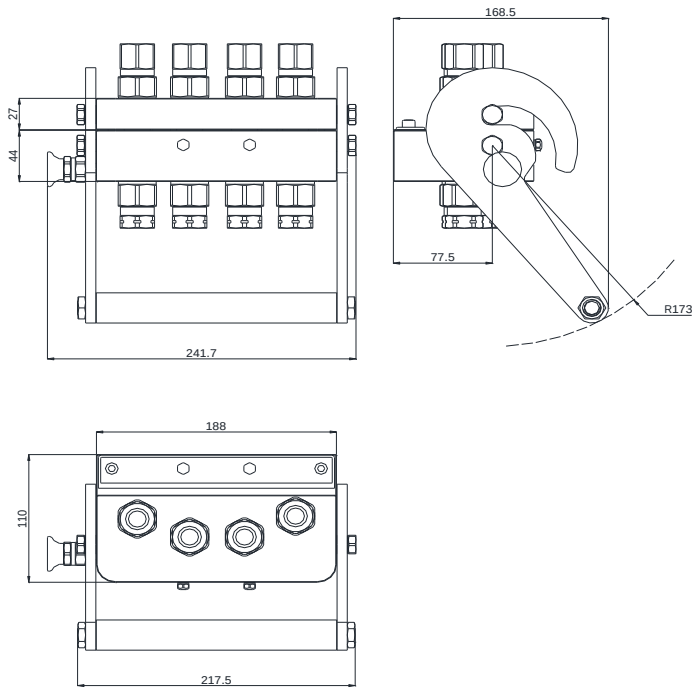
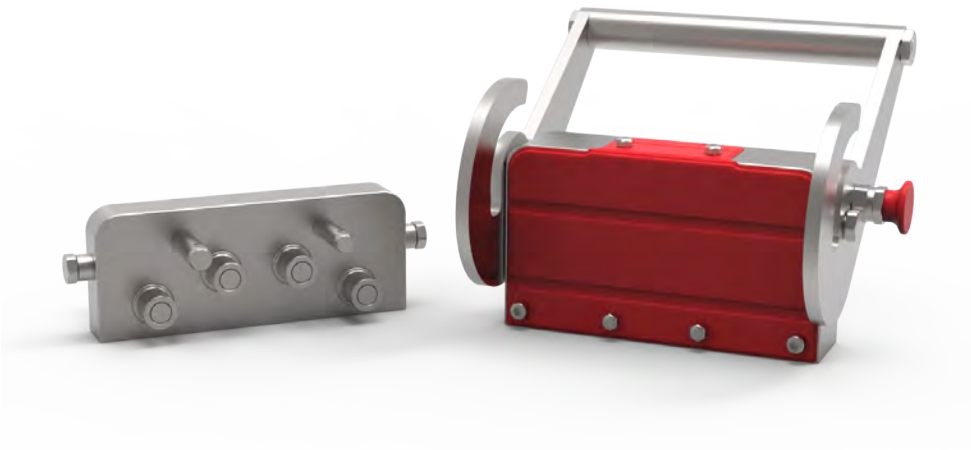
| MULTI-COUPLING   |                  |      |      |      |       | TERMINATION END*            |          |
|------------------|------------------|------|------|------|-------|-----------------------------|----------|
| PART NUMBER      |                  | SIZE |      |      | LINES | DESCRIPTION                 | THREAD   |
| Fixed            | Mobile           | DN   | Inch | Dash |       |                             |          |
| Q410D0F-041-08   | Q410D0M-041-08   | 12.5 | 1/2" | -08  | 4     | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |
| Q410C0F-041-08AA | Q410C0M-041-08AA | 12.5 | 1/2" | -08  | 3     | BSP FEMALE DIN3852-2 TYPE X | 1/2" BSP |

\* Alternative termination ends can be provided - please ask your sales rep for details

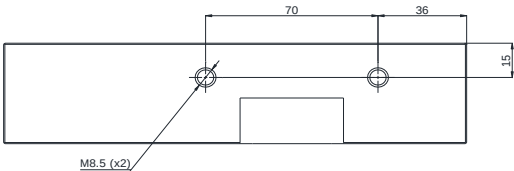
Q411 SERIES

4 LINE MULTI-COUPLING  
DOUBLE-SIDED LEVER  
LOCKING POSITION: LEFT \*

\* Right hand locking available on request



FIXED PART INSTALLATION\*\*



| MULTI-COUPLING |                |      |      |      | TERMINATION END * |                             |
|----------------|----------------|------|------|------|-------------------|-----------------------------|
| PART NUMBER    |                | SIZE |      |      | LINES             | DESCRIPTION                 |
| Fixed          | Mobile         | DN   | Inch | Dash |                   | THREAD                      |
| Q411D0F-041-06 | Q411D0M-041-06 | 10   | 3/8" | -06  | 4                 | BSP FEMALE DIN3852-2 TYPE X |
|                |                |      |      |      |                   | 3/8" BSP                    |

\* Alternative termination ends can be provided - please ask your sales rep for details

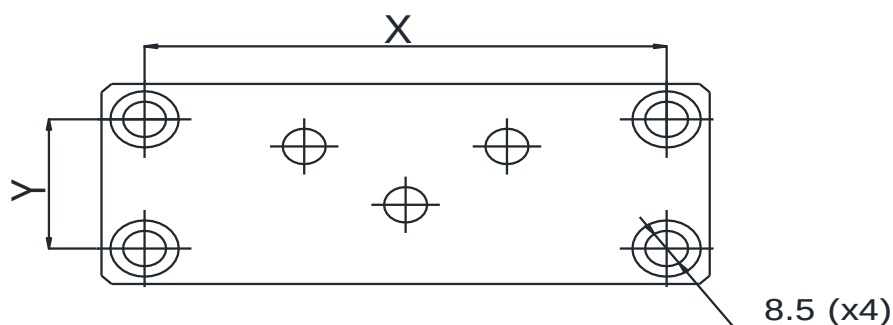
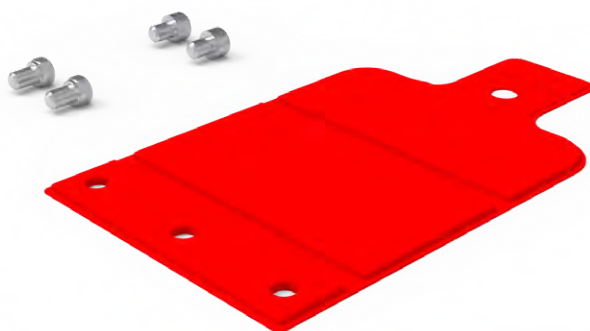
**Q1AZ50BN**

PLATE ADAPTOR FOR  
MULTICONNECTOR

| MULTICOUPLING SERIES | PART NUMBER | MATERIAL  | DIMENSIONS mm |    |
|----------------------|-------------|-----------|---------------|----|
|                      |             |           | X             | Y  |
| Q401                 | Q1AZ50BN-01 | ALUMINIUM | 103           | 31 |
| Q402                 | Q1AZ50BN-02 | ALUMINIUM | 103           | 31 |
| Q403                 | Q1AZ50BN-03 | ALUMINIUM | 115           | 31 |
| Q404                 | Q1AZ50BN-04 | ALUMINIUM | 115           | 31 |
| Q406                 | Q1AZ50BN-06 | ALUMINIUM | 115           | 40 |
| Q410                 | Q1AZ50BN-10 | ALUMINIUM | 115           | 31 |

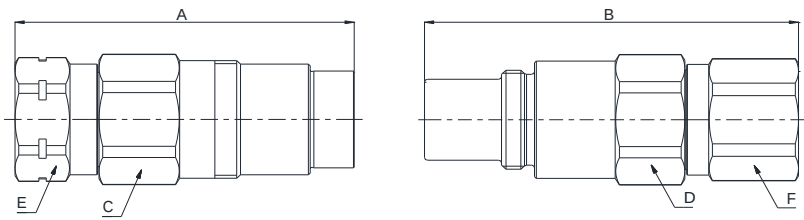
**Q1AZ19FR**

COVER FOR  
MULTICONNECTOR

| MULTICOUPLING SERIES | PART NUMBER | MATERIAL | COLOUR |
|----------------------|-------------|----------|--------|
| Q401                 | Q1AZ19FR-01 | STEEL+PU | RED    |
| Q402                 | Q1AZ19FR-02 | STEEL+PU | RED    |
| Q403                 | Q1AZ19FR-03 | STEEL+PU | RED    |
| Q404                 | Q1AZ19FR-04 | STEEL+PU | RED    |
| Q405                 | Q1AZ19FR-05 | STEEL+PU | RED    |
| Q406                 | Q1AZ19FR-06 | STEEL+PU | RED    |
| Q407                 | Q1AZ19FR-07 | STEEL+PU | RED    |
| Q408                 | Q1AZ19FR-08 | STEEL+PU | RED    |
| Q409                 | Q1AZ19FR-09 | STEEL+PU | RED    |
| Q410                 | Q1AZ19FR-10 | STEEL+PU | RED    |
| Q411                 | Q1AZ19FR-11 | STEEL+PU | RED    |

Q06811041A  
Q06911041A

BSP TERMINATION ENDS  
TO DIN 3852 X TYPE



| SIZE |      |      | PART NUMBER      |                  | THREAD | DIMENSIONS mm |       |    |    |    |    |  |
|------|------|------|------------------|------------------|--------|---------------|-------|----|----|----|----|--|
| DN   | Inch | Dash | Female coupling  | Male coupling    |        | A             | B     | C  | D  | E  | F  |  |
| 10   | 3/8" | -06  | Q06911041A-06-06 | Q06811041A-06-06 | 3/8"   | 82.3          | 93.7  | 30 | 30 | 27 | 27 |  |
| 10   | 3/8" | -06  | Q06911041A-06-08 | Q06811041A-06-08 | 1/2"   | 85.3          | 96.5  | 30 | 30 | 27 | 27 |  |
| 12.5 | 1/2" | -08  | Q06911041A-08-08 | Q06811041A-08-08 | 1/2"   | 92.5          | 102   | 36 | 36 | 34 | 34 |  |
| 12.5 | 1/2" | -08  | Q06911041A-08-12 | Q06811041A-08-12 | 3/4"   | 94.5          | 105   | 36 | 36 | 34 | 34 |  |
| 20   | 3/4" | -12  | Q06911041A-12-12 | Q06811041A-12-12 | 3/4"   | 108           | 118.7 | 41 | 42 | 41 | 41 |  |
| 25   | 1"   | -16  | Q06911041A-16-16 | Q06811041A-16-16 | 1"     | 119.4         | 126.3 | 50 | 50 | 50 | 50 |  |



## Q1A0114

PARKING FOR MQS-A MALE  
BULKHEAD MOUNTING

| SIZE |      |      | PART NUMBER | MATERIAL | COLOUR |
|------|------|------|-------------|----------|--------|
| DN   | Inch | Dash | Parking     |          |        |
| 12.5 | 1/2" | -08  | Q1A0114N-08 | STEEL    | -      |



## Q1A0114-B

PARKING FOR MQS-A MALE

| SIZE |      |      | PART NUMBER  | MATERIAL | COLOUR |
|------|------|------|--------------|----------|--------|
| DN   | Inch | Dash | Parking      |          |        |
| 12.5 | 1/2" | -08  | Q1A0114N-08B | STEEL    | -      |



## Q1A0104

PARKING FOR MQS-A MALE

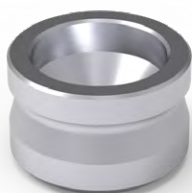
| SIZE |      |      | PART NUMBER | MATERIAL | COLOUR |
|------|------|------|-------------|----------|--------|
| DN   | Inch | Dash | Parking     |          |        |
| 12.5 | 1/2" | -08  | Q1A0104N-08 | STEEL    | -      |



## Q1A0114-T

PARKING WITH CAP FOR MQS-A MALE  
BULKHEAD MOUNTING

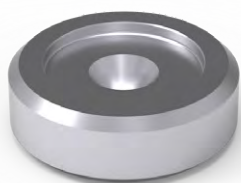
| SIZE |      |      | PART NUMBER  | MATERIAL    | COLOUR |
|------|------|------|--------------|-------------|--------|
| DN   | Inch | Dash | Parking      |             |        |
| 12.5 | 1/2" | -08  | Q1A0114K-08T | STEEL + POM | BLACK  |



## Q1AF104

PARKING FOR MQS-VB  
(BREAKING VALVES)

| SIZE |      |      | PART NUMBER | MATERIAL | COLOUR |
|------|------|------|-------------|----------|--------|
| DN   | Inch | Dash | Parking     |          |        |
| 12.5 | 1/2" | -08  | Q1AF104N-08 | STEEL    | -      |



## Q1AH104

PARKING FOR MQS-VS  
(AGRICULTURAL VALVES)

| SIZE |      |      | PART NUMBER | MATERIAL | COLOUR |
|------|------|------|-------------|----------|--------|
| DN   | Inch | Dash | Parking     |          |        |
| 12.5 | 1/2" | -08  | Q1AH104N-08 | STEEL    | -      |



## Q1AP104

PARKING FOR MQS-ST  
(SCREW TYPE MALE FOR TRUCK)

| SIZE |      |      | PART NUMBER | MATERIAL | COLOUR |
|------|------|------|-------------|----------|--------|
| DN   | Inch | Dash | Parking     |          |        |
| 20   | 3/4" | -12  | Q1AP104N-12 | STEEL    | -      |
| 25   | 1"   | -16  | Q1AP104N-16 | STEEL    | -      |



## Q1A0B00 Q1A1B00

PLUGS AND CAPS  
FOR MQS-A (ISO A)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL | COLOUR |
|------|------|------|--------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |          |        |
| 6.3  | 1/4" | -04  | Q1A1B00R-04              | Q1A0B00R-04           | PVC      | RED    |
| 6.3  | 1/4" | -04  | Q1A1B00Y-04              | Q1A0B00Y-04           | PVC      | YELLOW |
| 10   | 3/8" | -06  | Q1A1B00R-06              | Q1A0B00R-06           | PVC      | RED    |
| 10   | 3/8" | -06  | Q1A1B00Y-06              | Q1A0B00Y-06           | PVC      | YELLOW |
| 10   | 3/8" | -06  | Q1A1B00K-06              | Q1A0B00K-06           | PVC      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1B00R-08              | Q1A0B00R-08           | PVC      | RED    |
| 12.5 | 1/2" | -08  | Q1A1B00B-08              | Q1A0B00B-08           | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | Q1A1B00G-08              | Q1A0B00G-08           | PVC      | GREEN  |
| 12.5 | 1/2" | -08  | Q1A1B00Y-08              | Q1A0B00Y-08           | PVC      | YELLOW |
| 12.5 | 1/2" | -08  | Q1A1B00K-08              | Q1A0B00K-08           | PVC      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1B00H-08              | Q1A0B00H-08           | PVC      | WHITE  |
| 20   | 3/4" | -12  | Q1A1B00R-12              | Q1A0B00R-12           | PVC      | RED    |
| 20   | 3/4" | -12  | Q1A1B00Y-12              | Q1A0B00Y-12           | PVC      | YELLOW |
| 25   | 1"   | -16  | Q1A1B00R-16              | Q1A0B00R-16           | PVC      | RED    |
| 25   | 1"   | -16  | Q1A1B00Y-16              | Q1A0B00Y-16           | PVC      | YELLOW |





## Q1A0B00 Q1A1B00

PLUGS AND CAPS  
FOR MQS-AP (ISO A  
CONNECTABLE UNDER  
PRESSURE)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL | COLOUR |
|------|------|------|--------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |          |        |
| 12.5 | 1/2" | -08  | Q1A1B00R-08              | Q1A0B00R-08           | PVC      | RED    |
| 12.5 | 1/2" | -08  | Q1A1B00B-08              | Q1A0B00B-08           | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | Q1A1B00G-08              | Q1A0B00G-08           | PVC      | GREEN  |
| 12.5 | 1/2" | -08  | Q1A1B00Y-08              | Q1A0B00Y-08           | PVC      | YELLOW |
| 12.5 | 1/2" | -08  | Q1A1B00K-08              | Q1A0B00K-08           | PVC      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1B00H-08              | Q1A0B00H-08           | PVC      | WHITE  |



## Q1A1B00

PLUGS FOR MQS-AP  
(ISO A PUSH-PULL)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL | COLOUR |
|------|------|------|--------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |          |        |
| 6.3  | 1/4" | -04  | Q1A1B00R-04              | -                     | PVC      | RED    |
| 6.3  | 1/4" | -04  | Q1A1B00Y-04              | -                     | PVC      | YELLOW |
| 10   | 3/8" | -06  | Q1A1B00R-06              | -                     | PVC      | RED    |
| 10   | 3/8" | -06  | Q1A1B00Y-06              | -                     | PVC      | YELLOW |
| 10   | 3/8" | -06  | Q1A1B00K-06              | -                     | PVC      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1B00R-08              | -                     | PVC      | RED    |
| 12.5 | 1/2" | -08  | Q1A1B00B-08              | -                     | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | Q1A1B00G-08              | -                     | PVC      | GREEN  |
| 12.5 | 1/2" | -08  | Q1A1B00Y-08              | -                     | PVC      | YELLOW |
| 12.5 | 1/2" | -08  | Q1A1B00K-08              | -                     | PVC      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1B00H-08              | -                     | PVC      | WHITE  |
| 20   | 3/4" | -12  | Q1A1B00R-12              | -                     | PVC      | RED    |
| 20   | 3/4" | -12  | Q1A1B00Y-12              | -                     | PVC      | YELLOW |
| 25   | 1"   | -16  | Q1A1B00R-16              | -                     | PVC      | RED    |
| 25   | 1"   | -16  | Q1A1B00Y-16              | -                     | PVC      | YELLOW |



## Q1A1B00

PLUGS FOR MQS-AM & MQS-AB (ISO A), MQS-AFP, MQS-AFM, MQS-AFB, MQS-ARM & MQS-ARB (ISO A PUSH-PULL)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL | COLOUR |
|------|------|------|--------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |          |        |
| 12.5 | 1/2" | -08  | Q1A1B00R-08              | -                     | PVC      | RED    |
| 12.5 | 1/2" | -08  | Q1A1B00B-08              | -                     | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | Q1A1B00G-08              | -                     | PVC      | GREEN  |
| 12.5 | 1/2" | -08  | Q1A1B00Y-08              | -                     | PVC      | YELLOW |
| 12.5 | 1/2" | -08  | Q1A1B00K-08              | -                     | PVC      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1B00H-08              | -                     | PVC      | WHITE  |



## Q1A5B00 Q1A4B00

PLUGS AND CAPS FOR MQS-N (STANDARD) SERIES

| SIZE |      |      | PART NUMBER                         |                       | MATERIAL | COLOUR |
|------|------|------|-------------------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling            | Cap for Male coupling |          |        |
| 6.3  | 1/4" | -04  | Q1A5B00R-04                         | Q1A4B00R-04           | PVC      | RED    |
| 6.3  | 1/4" | -04  | Q1A5B00B-04                         | Q1A4B00B-04           | PVC      | BLUE   |
| 6.3  | 1/4" | -04  | Q1A5B00G-04                         | Q1A4B00G-04           | PVC      | GREEN  |
| 10   | 3/8" | -06  | Q1A5B00R-06                         | Q1A4B00R-06           | PVC      | RED    |
| 10   | 3/8" | -06  | Q1A5B00B-06                         | Q1A4B00B-06           | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | SEE PLUGS AND CAPS FOR ISO SERIES A |                       |          |        |
| 20   | 3/4" | -12  | Q1A5B00R-12                         | Q1A4B00R-12           | PVC      | RED    |
| 20   | 3/4" | -12  | Q1A5B00B-12                         | Q1A4B00B-12           | PVC      | BLUE   |
| 20   | 3/4" | -12  | Q1A5B00Y-12                         | Q1A4B00Y-12           | PVC      | YELLOW |



## Q1A9B00 Q1A8B00

PLUGS AND CAPS FOR  
MQS-F (FLAT-FACE) &  
MQS-FH (FLAT-FACE HIGH  
PRESSURE)

| SIZE |      |      | PART NUMBER             |                       | MATERIAL | COLOUR |
|------|------|------|-------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Cap for female coupling | Cap for male coupling |          |        |
| 6.3  | 1/4" | -04  | Q1A9B00R-04             | Q1A8B00R-04           | PVC      | RED    |
| 6.3  | 1/4" | -04  | Q1A9B00B-04             | Q1A8B00B-04           | PVC      | BLUE   |
| 10   | 3/8" | -06  | Q1A9B00R-06             | Q1A8B00R-06           | PVC      | RED    |
| 10   | 3/8" | -06  | Q1A9B00B-06             | Q1A8B00B-06           | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | Q1A9B00R-08             | Q1A8B00R-08           | PVC      | RED    |
| 12.5 | 1/2" | -08  | Q1A9B00B-08             | Q1A8B00B-08           | PVC      | BLUE   |
| 16   | 5/8" | -10  | Q1A9B00R-10             | Q1A8B00R-10           | PVC      | RED    |
| 20   | 3/4" | -12  | Q1A9B00R-12             | Q1A8B00R-12           | PVC      | RED    |
| 20   | 3/4" | -12  | Q1A9B00B-12             | Q1A8B00B-12           | PVC      | BLUE   |
| 25   | 1"   | -16  | Q1A9B00R-16             | Q1A8B00R-16           | PVC      | RED    |
| 25   | 1"   | -16  | Q1A9B00B-16             | Q1A8B00B-16           | PVC      | BLUE   |



## Q1A8B00

CAPS FOR  
MQS-FP (FLAT-FACE MALE  
CONNECTABLE UNDER  
PRESSURE)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL | COLOUR |
|------|------|------|--------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |          |        |
| 10   | 3/8" | -06  | -                        | Q1A8B00R-06           | PVC      | RED    |
| 10   | 3/8" | -06  | -                        | Q1A8B00B-06           | PVC      | BLUE   |
| 12.5 | 1/2" | -08  | -                        | Q1A8B00R-08           | PVC      | RED    |
| 12.5 | 1/2" | -08  | -                        | Q1A8B00B-08           | PVC      | BLUE   |
| 16   | 5/8" | -10  | -                        | Q1A8B00R-10           | PVC      | RED    |
| 19   | 3/4" | -12  | -                        | Q1A8B00R-12           | PVC      | RED    |
| 19   | 3/4" | -12  | -                        | Q1A8B00B-12           | PVC      | BLUE   |
| 25   | 1"   | -16  | -                        | Q1A8B00B-16           | PVC      | RED    |
| 25   | 1"   | -16  | -                        | Q1A8B00R-16           | PVC      | BLUE   |



**Q1A3B00**  
**Q1A2B00**

PLUGS AND CAPS  
FOR MQS-B (ISO B)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL | COLOUR |
|------|------|------|--------------------------|-----------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |          |        |
| 6.3  | 1/4" | -04  | Q1A3B00R-04              | Q1A2B00R-04           | PVC      | RED    |



**Q1AJA00**  
**Q1AIA00**

PLUGS AND CAPS  
FOR MQS-SGR (SCREW-TYPE)  
& MQS-SG (SCREW-TYPE)

| SIZE |        |      | PART NUMBER             |                        | MATERIAL | COLOUR |
|------|--------|------|-------------------------|------------------------|----------|--------|
| DN   | Inch   | Dash | Cap for female coupling | Plug for male coupling |          |        |
| 6.3  | 1/4"   | -04  | Q1AJA00R-04             | Q1AIA00R-04            | PE-HD    | RED    |
| 10   | 3/8"   | -06  | Q1AJA00R-06             | Q1AIA00R-06            | PE-HD    | RED    |
| 12.5 | 1/2"   | -08  | Q1AJA00R-08             | Q1AIA00R-08            | PE-HD    | RED    |
| 20   | 3/4"   | -12  | Q1AJA00R-12             | Q1AIA00R-12            | PE-HD    | RED    |
| 25   | 1"     | -16  | Q1AJA00R-16             | Q1AIA00R-16            | PE-HD    | RED    |
| 38   | 1.1/2" | -24  | Q1AJA00R-24             | Q1AIA00R-24            | PE-HD    | RED    |



## Q1AJ100 Q1AI100

CAPS AND PLUGS  
FOR MQS-SG (SCREW-TYPE)  
& MQS-SGR (SCREW-TYPE  
GERMAN MARKET)

| SIZE |      |      | PART NUMBER             |                        | MATERIAL      | COLOUR |
|------|------|------|-------------------------|------------------------|---------------|--------|
| DN   | Inch | Dash | Cap for female coupling | Plug for male coupling |               |        |
| 6.3  | 1/4" | -04  | Q1AJ100N-04             | Q1AI100N-04            | STEEL + PE-LD | -      |
| 10   | 3/8" | -06  | Q1AJ100N-06             | Q1AI100N-06            | STEEL + PE-LD | -      |
| 12.5 | 1/2" | -08  | Q1AJ100N-08             | Q1AI100N-08            | STEEL + PE-LD | -      |
| 20   | 3/4" | -12  | Q1AJ100N-12             | Q1AI100N-12            | STEEL + PE-LD | -      |
| 25   | 1"   | -16  | Q1AJ100N-16             | Q1AI100N-16            | STEEL + PE-LD | -      |



## Q1AN100 Q1AM100

CAPS AND PLUGS  
FOR MQS-SC (SCREW-TYPE  
HYDRAULIC CYLINDERS)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL      | COLOUR |
|------|------|------|--------------------------|-----------------------|---------------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |               |        |
| 6.3  | 1/4" | -04  | Q1AN100N-04              | Q1AM100N-04           | STEEL + PE-LD | -      |
| 10   | 3/8" | -06  | Q1AN100N-06              | Q1AM100N-06           | STEEL + PE-LD | -      |



## Q1AQ100 Q1AP100

CAPS AND PLUGS  
FOR MQS-ST  
(SCREW-TYPE TRUCKS)

| SIZE |      |      | PART NUMBER             |                        | MATERIAL | COLOUR |
|------|------|------|-------------------------|------------------------|----------|--------|
| DN   | Inch | Dash | Cap for female coupling | Plug for male coupling |          |        |
| 20   | 3/4" | -12  | Q1AQ100N-12             | Q1AP100N-12            | STEEL    | -      |
| 25   | 1"   | -16  | Q1AQ100N-16             | Q1AP100N-16            | STEEL    | -      |



## Q1AL100 Q1AK100

CAPS AND PLUGS  
FOR MGS-SH (SCREW-TYPE  
FOR VERY HIGH PRESSURE)

| SIZE |      |      | PART NUMBER              |                       | MATERIAL      | COLOUR |
|------|------|------|--------------------------|-----------------------|---------------|--------|
| DN   | Inch | Dash | Plug for Female coupling | Cap for Male coupling |               |        |
| 6.3  | 1/4" | -04  | Q1AL100N-04              | Q1AK100N-04           | STEEL + PE-LD | -      |
| 10   | 3/8" | -06  | Q1AL100N-06              | Q1AK100N-06           | STEEL + PE-LD | -      |
| 12.5 | 1/2" | -08  | Q1AL100N-08              | Q1AK100N-08           | STEEL + PE-LD | -      |
| 20   | 3/4" | -12  | Q1AL100N-12              | Q1AK100N-12           | STEEL + PE-LD | -      |
| 25   | 1"   | -16  | Q1AL100N-16              | Q1AK100N-16           | STEEL + PE-LD | -      |



## Q1ACB00

CAP  
FOR MGS-D (DIAGNOSTIC)

| SIZE |      |      | PART NUMBER           | MATERIAL | COLOUR |
|------|------|------|-----------------------|----------|--------|
| DN   | Inch | Dash | Cap for Male coupling |          |        |
| 5    | 1/8" | -02  | Q1ACB00K-02           | PVC      | BLACK  |



## Q1AEA00

CAP  
FOR MGS-VB  
(BRAKING VALVES)

| SIZE |      |      | PART NUMBER           | MATERIAL | COLOUR |
|------|------|------|-----------------------|----------|--------|
| DN   | Inch | Dash | Cap for Male coupling |          |        |
| 12.5 | 1/2" | -08  | Q1AEA00R-08           | PVC      | RED    |



## Q1AGA00

CAP  
FOR MQS-VS  
(AGRICULTURAL VALVES)

| SIZE |      |      | PART NUMBER           | MATERIAL | COLOUR |
|------|------|------|-----------------------|----------|--------|
| DN   | Inch | Dash | Cap for Male coupling |          |        |
| 12.5 | 1/2" | -08  | Q1AGA00R-08           | PE-HD    | RED    |



## Q1A1D02

AUTOMATIC CAP  
FOR MQS-AF (PUSH-PULL)

| SIZE |      |      | PART NUMBER             | MATERIAL | COLOUR |
|------|------|------|-------------------------|----------|--------|
| DN   | Inch | Dash | Cap for Female coupling |          |        |
| 12.5 | 1/2" | -08  | Q1A1D02Y-08             | POM      | YELLOW |
| 12.5 | 1/2" | -08  | Q1A1D02R-08             | POM      | RED    |
| 12.5 | 1/2" | -08  | Q1A1D02K-08             | POM      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1D02G-08             | POM      | GREEN  |
| 12.5 | 1/2" | -08  | Q1A1D02B-08             | POM      | BLUE   |
| 20   | 3/4" | -12  | Q1A1D02Y-12             | POM      | YELLOW |
| 20   | 3/4" | -12  | Q1A1D02R-12             | POM      | RED    |
| 20   | 3/4" | -12  | Q1A1D02K-12             | POM      | BLACK  |
| 20   | 3/4" | -12  | Q1A1D02G-12             | POM      | GREEN  |
| 20   | 3/4" | -12  | Q1A1D02B-12             | POM      | BLUE   |





## Q1A1D02

AUTOMATIC CAP  
FOR MQS-AFP, MQS-AFM,  
MQS-AFB, MQS-ARM &  
MQS-ARB (ISO A PUSH-PULL)

| SIZE |      |      | PART NUMBER             | MATERIAL | COLOUR |
|------|------|------|-------------------------|----------|--------|
| DN   | Inch | Dash | Cap for Female coupling |          |        |
| 12.5 | 1/2" | -08  | Q1A1D02B-08             | POM      | BLUE   |
| 12.5 | 1/2" | -08  | Q1A1D02G-08             | POM      | GREEN  |
| 12.5 | 1/2" | -08  | Q1A1D02K-08             | POM      | BLACK  |
| 12.5 | 1/2" | -08  | Q1A1D02R-08             | POM      | RED    |
| 12.5 | 1/2" | -08  | Q1A1D02Y-08             | POM      | YELLOW |



## Q1A9D02

AUTOMATIC CAP  
FOR MQS-F (FEMALE)  
& MQS-FH (FEMALE)

| SIZE |      |      | PART NUMBER              | MATERIAL | COLOUR |
|------|------|------|--------------------------|----------|--------|
| DN   | Inch | Dash | Plug for Female coupling |          |        |
| 12.5 | 1/2" | -08  | Q1A9D02R-08              | POM      | RED    |
| 16   | 5/8" | -10  | Q1A9D02B-10              | POM      | BLUE   |
| 20   | 3/4" | -12  | Q1A9D02B-12              | POM      | BLUE   |



## Q1AL500 Q1AK500

CAPS AND PLUGS  
FOR MQS-SH ( SCREW-TYPE  
VERY HIGH PRESSURE)

| SIZE |        |      | PART NUMBER              |                       | MATERIAL          | COLOUR |
|------|--------|------|--------------------------|-----------------------|-------------------|--------|
| DN   | Inch   | Dash | Plug for Female coupling | Cap for Male coupling |                   |        |
| 31.5 | 1.1/4" | -20  | Q1AL500N-20              | Q1AK500N-20           | ALUMINIUM + STEEL | -      |
| 38   | 1.1/2" | -24  | Q1AL500N-24              | Q1AK500N-24           | ALUMINIUM + STEEL | -      |





## Q1AW500 Q1AV500

CAPS AND PLUGS  
FOR MQS-FS ( SCREW-TYPE  
FLAT FACE)

| SIZE |        |      | PART NUMBER              |                       | MATERIAL          | COLOUR |
|------|--------|------|--------------------------|-----------------------|-------------------|--------|
| DN   | Inch   | Dash | Plug for Female coupling | Cap for Male coupling |                   |        |
| 10   | 3/8"   | -06  | Q1AW500N-06              | Q1AV500N-06           | ALUMINIUM + STEEL | -      |
| 12.5 | 1/2"   | -08  | Q1AW500N-08              | Q1AV500N-08           | ALUMINIUM + STEEL | -      |
| 16   | 5/8"   | -10  | Q1AW500N-10              | Q1AV500N-10           | ALUMINIUM + STEEL | -      |
| 19   | 3/4"   | -12  | Q1AW500N-12              | Q1AV500N-12           | ALUMINIUM + STEEL | -      |
| 25   | 1"     | -16  | Q1AW500N-16              | Q1AV500N-16           | ALUMINIUM + STEEL | -      |
| 38   | 1-1/2" | -24  | Q1AW500N-24              | Q1AV500N-24           | ALUMINIUM + STEEL | -      |

## Q1A8093



SHAPED SEAL FOR MQS-F  
(FLAT-FACE), MQS-FH (FLAT-  
FACE HIGH PRESSURE) &  
MQS-FP (FLAT-FACE MALE  
CONNECTABLE UNDER  
PRESSURE)

| SIZE |      |      | PART NUMBER | KIT         | MATERIAL     |
|------|------|------|-------------|-------------|--------------|
| DN   | Inch | Dash |             |             |              |
| 6.3  | 1/4" | -04  | Q1A8093N-04 | SHAPED SEAL | POLYURETHANE |
| 10   | 3/8" | -06  | Q1A8093N-06 | SHAPED SEAL | POLYURETHANE |
| 12.5 | 1/2" | -08  | Q1A8093N-08 | SHAPED SEAL | POLYURETHANE |
| 16   | 5/8" | -10  | Q1A8093N-10 | SHAPED SEAL | POLYURETHANE |
| 20   | 3/4" | -12  | Q1A8093N-12 | SHAPED SEAL | POLYURETHANE |
| 25   | 1"   | -16  | Q1A8093N-16 | SHAPED SEAL | POLYURETHANE |

## Q1AV093



SHAPED SEAL FOR MQS-FS  
(FLAT-FACE SCREW TYPE)

| SIZE |        |      | PART NUMBER | KIT         | MATERIAL     |
|------|--------|------|-------------|-------------|--------------|
| DN   | Inch   | Dash |             |             |              |
| 10   | 3/8"   | -06  | Q1AV093N-06 | SHAPED SEAL | POLYURETHANE |
| 12.5 | 1/2"   | -08  | Q1AV093N-08 | SHAPED SEAL | POLYURETHANE |
| 16   | 5/8"   | -10  | Q1AV093N-10 | SHAPED SEAL | POLYURETHANE |
| 20   | 3/4"   | -12  | Q1AV093N-12 | SHAPED SEAL | POLYURETHANE |
| 25   | 1"     | -16  | Q1AV093N-16 | SHAPED SEAL | POLYURETHANE |
| 38   | 1.1/2" | -24  | Q1AV093N-24 | SHAPED SEAL | POLYURETHANE |



## Q1A1013

O-RING AND BACK-UP RING  
FOR MQS-A (ISO A)

| SIZE |        |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|--------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch   | Dash |             |                       | O-Ring   | Backup Ring |
| 6.3  | 1/4"   | -04  | Q1A1013N-04 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8"   | -06  | Q1A1013N-06 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 12.5 | 1/2"   | -08  | Q1A1013N-08 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 20   | 3/4"   | -12  | Q1A1013N-12 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"     | -16  | Q1A1013N-16 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 31.5 | 1.1/4" | -20  | Q1A1013N-20 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 40   | 1.1/2" | -24  | Q1A1013N-24 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 51   | 2"     | -32  | Q1A1013N-32 | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1A1013

O-RING AND BACK-UP RING  
FOR MQS-AF  
(ISO A PUSH-PULL)

| SIZE |      |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch | Dash |             |                       | O-Ring   | Backup Ring |
| 6.3  | 1/4" | -04  | Q1A1013N-04 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8" | -06  | Q1A1013N-06 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 12.5 | 1/2" | -08  | Q1A1013N-08 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 20   | 3/4" | -12  | Q1A1013N-12 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"   | -16  | Q1A1013N-16 | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1A1013

O-RING AND BACK-UP RING  
FOR MQS-AP, MQS-AM &  
MQS-AB (ISO A), MQS-AFP,  
MQS-AFM, MQS-AFB, MQS-  
ARM & MQS-ARB  
(ISO A PUSH-PULL)

| SIZE |      |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch | Dash |             |                       | O-Ring   | Backup Ring |
| 12.5 | 1/2" | -08  | Q1A1013N-08 | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1A3013

O-RING AND BACK-UP RING  
FOR MQS-B (ISO B)

| SIZE |      |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch | Dash |             |                       | O-Ring   | Backup Ring |
| 5    | 1/8" | -02  | Q1A3013N-02 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 6.3  | 1/4" | -04  | Q1A3013N-04 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8" | -06  | Q1A3013N-06 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 12.5 | 1/2" | -08  | Q1A3013N-08 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 20   | 3/4" | -12  | Q1A3013N-12 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"   | -16  | Q1A3013N-16 | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1A5013

O-RING AND BACK-UP RING  
FOR MQS-N  
(STANDARD SERIES)

| SIZE |        |      | PART NUMBER                    | KIT                   | MATERIAL |             |
|------|--------|------|--------------------------------|-----------------------|----------|-------------|
| DN   | Inch   | Dash |                                |                       | O-Ring   | Backup Ring |
| 6.3  | 1/4"   | -04  | Q1A5013N-04                    | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8"   | -06  | Q1A5013N-06                    | O-RING + BACK-UP RING | NBR      | PTFE        |
| 12.5 | 1/2"   | -08  | SEE SPARE PARTS FOR ISO SERIES |                       |          |             |
| 20   | 3/4"   | -12  | Q1A5013N-12                    | O-RING + BACK-UP RING | NBR      | PTFE        |
| 20   | 3/4"   | -12  | Q1A5013N-12B                   | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"     | -16  | Q1A5013N-16                    | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"     | -16  | Q1A5013N-16B                   | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"     | -16  | Q1A5013N-16C                   | O-RING + BACK-UP RING | NBR      | PTFE        |
| 31.5 | 1.1/4" | -20  | Q1A5013N-20                    | O-RING + BACK-UP RING | NBR      | PTFE        |
| 40   | 1.1/2" | -24  | Q1A5013N-24                    | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1AJ013

O-RING AND BACK-UP RING  
FOR MQS-SG  
& MQS-SGR (SCREW-TYPE)

| SIZE |        |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|--------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch   | Dash |             |                       | O-Ring   | Backup Ring |
| 6.3  | 1/4"   | -04  | Q1AJ013N-04 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8"   | -06  | Q1AJ013N-06 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 12.5 | 1/2"   | -08  | Q1AJ013N-08 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 20   | 3/4"   | -12  | Q1AJ013N-12 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"     | -16  | Q1AJ013N-16 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 40   | 1.1/2" | -24  | Q1AJ013N-24 | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1AN013

O-RING AND BACK-UP RING  
FOR MQS-SC (SCREW-TYPE  
HYDRAULIC CYLINDERS)

| SIZE |      |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch | Dash |             |                       | O-Ring   | Backup Ring |
| 6.3  | 1/4" | -04  | Q1AN013N-04 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8" | -06  | Q1AN013N-06 | O-RING + BACK-UP RING | NBR      | PTFE        |



## Q1AQ013

O-RING RING  
FOR MQS-ST (SCREW-TYPE  
FOR TRUCKS)

| SIZE |      |      | PART NUMBER | KIT    | MATERIAL |             |
|------|------|------|-------------|--------|----------|-------------|
| DN   | Inch | Dash |             |        | O-Ring   | Backup Ring |
| 20   | 3/4" | -12  | Q1AQ013N-12 | O-RING | NBR      | -           |
| 25   | 1"   | -16  | Q1AQ013N-16 | O-RING | NBR      | -           |



## Q1AL013

O-RING AND BACK-UP RING  
FOR MQS-SH (SCREW-TYPE  
FOR VERY HIGH PRESSURE)

| SIZE |      |      | PART NUMBER | KIT                   | MATERIAL |             |
|------|------|------|-------------|-----------------------|----------|-------------|
| DN   | Inch | Dash |             |                       | O-Ring   | Backup Ring |
| 6.3  | 1/4" | -04  | Q1AL013N-04 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 10   | 3/8" | -06  | Q1AL013N-06 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 12.5 | 1/2" | -08  | Q1AL013N-08 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 20   | 3/4" | -12  | Q1AL013N-12 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 25   | 1"   | -16  | Q1AL013N-16 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 31.5 | 1¼"  | -20  | Q1AL013N-20 | O-RING + BACK-UP RING | NBR      | PTFE        |
| 38   | 1½"  | -24  | Q1AL013N-24 | O-RING + BACK-UP RING | NBR      | PTFE        |

## ABOUT Q.SAFE CHECK VALVES

Manuli Hydraulics' check valves are expertly designed for optimal hydrodynamic performance, ensuring minimal pressure drop across the component, and therefore minimising the impact on the fluid flow in your systems. Manufactured from high quality steel with a Cr3+ (trivalent chrome) plating, Manuli check valves offer superior corrosion resistance - up to 500 hours to red rust in salt spray conditions - with the option to upgrade to our new E-Coat 1000 plating (1,000 hours to red rust) on request.

Valve sealing is supplied by a C98 high-carbon steel spring and (where required) a nitrile (NBR) o-ring and back-up ring arrangement, which prevents unwanted creeping of the rubber seal over time.

Manuli check valve housings come in 3 basic forms, "Standard", "DHI" and "Compact". This choice of housing design makes it even easier for you to include Manuli check valves into your systems regardless of space constraints.

The Manuli check valve range also includes "Bi-Directional" options for both the "Standard" and "DHI" housing types, to allow an even greater level of pressure control in your systems.

## Q.SAFE CHECK VALVES

| ACCESSORY TYPE       | SIZE |      |      |      |    |        |        |    | PAGE No. |
|----------------------|------|------|------|------|----|--------|--------|----|----------|
|                      | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |          |
| STANDARD             |      |      |      |      |    |        |        |    | 504      |
| COMPACT              |      |      |      |      |    |        |        |    | 511      |
| BI-DIRECTIONAL       |      |      |      |      |    |        |        |    | 515      |
| STANDARD - DHI       |      |      |      |      |    |        |        |    | 518      |
| BI-DIRECTIONAL - DHI |      |      |      |      |    |        |        |    | 522      |

## How to order Manuli Check Valves

Our portfolio of check valves is designed to allow maximum flexibility of selection with the minimum number of unique parts required. So for all of our off-the-shelf valve families it is possible to have any of the listed configurations supplied with any one of the standard crack pressures.

When placing your order simply substitute the 11th character in the part number for the relevant "Digit" shown in the table below.

*Note: All part numbers in the following pages are shown with a "A" in this position\*, corresponding to a 35 kPa (5.1 psi) crack pressure.*

*\* Except in the case of bi-directional check valves where all the options are listed.*

Q2A1110404**A**-08-08

REPLACE WITH RELEVANT  
DIGIT FROM TABLE

CRACK PRESSURE OPTIONS

| Digit | Pressure (kPa) | Pressure (psi) |
|-------|----------------|----------------|
| A     | 35             | 5.1            |
| B     | 10             | 1.5            |
| C     | 20             | 2.9            |
| D     | 50             | 7.3            |
| E     | 100            | 14.5           |
| F     | 150            | 21.8           |
| G     | 200            | 29.0           |
| H     | 250            | 36.3           |
| J     | 300            | 43.5           |
| K     | 350            | 50.8           |
| L     | 400            | 58.0           |
| M     | 450            | 65.3           |
| N     | 500            | 72.5           |
| P     | 600            | 87.0           |
| Q     | 700            | 101.5          |
| R     | 800            | 116.0          |
| S     | 900            | 130.5          |
| T     | 1000           | 145.0          |
| X     | Without Spring |                |

### Example:

Part number "Q2A1110505A-04-04" would specify a 35 kPa crack pressure.

Part number "Q2A1110505M-04-04" would specify exactly the same valve configuration, but with a 450 kPa crack pressure.

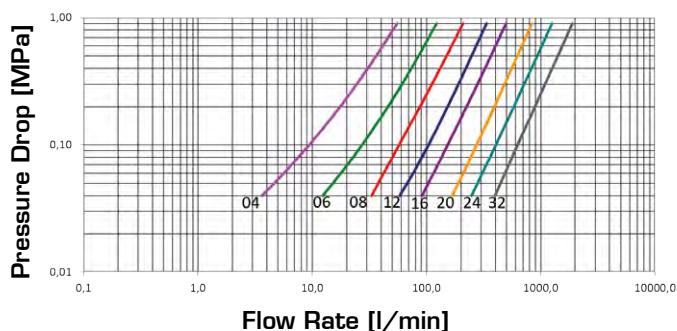
**Note:** When specifying the crack pressure for a bi-directional check valve the digit value would refer to the crack pressure in the B-A direction. A-B direction crack pressure is always 35 kPa.



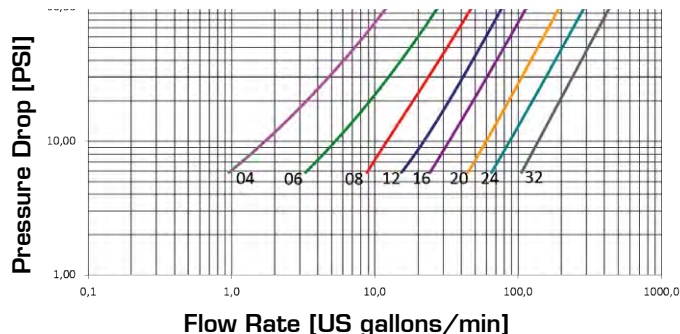
# STANDARD CHECK VALVES



Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |        |      |  |       |  |        |  |        |
|-------------------------------------------------------------------------------------|--------|------|-------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|--------|
| SIZE                                                                                |        |      | WORKING PRESSURE (Dynamic)                                                          |       | RATED FLOW<br>at 0.2 MPa of pressure drop                                            |        | MINIMUM BURST PRESSURE                                                                |        |
| DN                                                                                  | inch   | Dash | MPa                                                                                 | PSI   | l/min                                                                                | US GPM | MPa                                                                                   | PSI    |
| 6                                                                                   | 1/4"   | 04   | 45                                                                                  | 6,525 | 18                                                                                   | 4.8    | 180                                                                                   | 26,100 |
| 10                                                                                  | 3/8"   | 06   | 35                                                                                  | 5,075 | 46                                                                                   | 12.2   | 140                                                                                   | 20,300 |
| 12                                                                                  | 1/2"   | 08   | 35                                                                                  | 5,075 | 88                                                                                   | 23.2   | 140                                                                                   | 20,300 |
| 19                                                                                  | 3/4"   | 12   | 35                                                                                  | 5,075 | 153                                                                                  | 40.4   | 140                                                                                   | 20,300 |
| 25                                                                                  | 1"     | 16   | 35                                                                                  | 5,075 | 225                                                                                  | 59.4   | 140                                                                                   | 20,300 |
| 31                                                                                  | 1.1/4" | 20   | 35                                                                                  | 5,075 | 394                                                                                  | 104.1  | 140                                                                                   | 20,300 |
| 38                                                                                  | 1.1/2" | 24   | 35                                                                                  | 5,075 | 580                                                                                  | 153.2  | 140                                                                                   | 20,300 |
| 51                                                                                  | 2"     | 32   | 35                                                                                  | 5,075 | 890                                                                                  | 235.1  | 140                                                                                   | 20,300 |

## PRODUCT DESCRIPTION

- Manufactured from high-quality materials
- Robust design
- Large range of termination end options available
- Large range of cracking-pressure available

### MATERIAL

Steel, with springs in C98 high-carbon steel. Seals in NBR and back-up ring in PTFE.

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

### SAFETY FACTOR

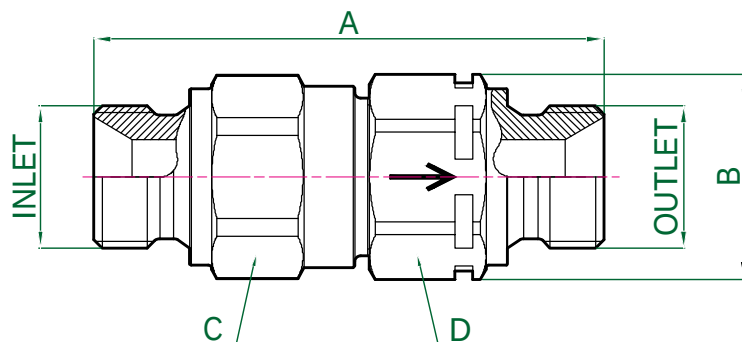
4:1 for dynamic pressures

### IMPULSE PRESSURES

1,000,000 cycles at 120% of the rated one (freq. 1Hz)

### TEST SPECIFICATIONS

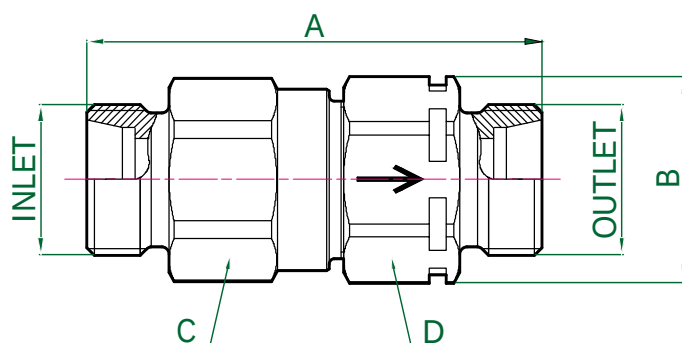
ISO 18869



## Q2A1110505

MALE-MALE, STANDARD  
**INLET:** BSP MALE 60° CONE SEAT  
BS5200 / ISO 8434-6  
**OUTLET:** BSP MALE 60° CONE SEAT  
BS5200 / ISO 8434-6  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

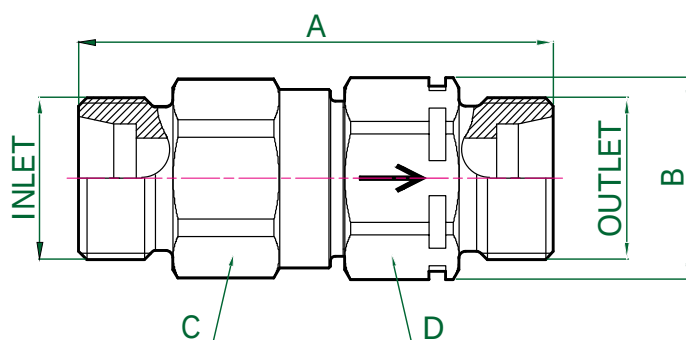
| NOMINAL SIZE |        |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |       |    |    |   |
|--------------|--------|------|-------------------|------------------|---------|--------|---------------|-------|----|----|---|
| DN           | inch   | Dash |                   |                  | INLET   | OUTLET | A             | B     | C  | D  | E |
| 6            | 1/4"   | -04  | Q2A1110505A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 56            | Ø21   | 19 | 19 |   |
| 10           | 3/8"   | -06  | Q2A1110505A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 64            | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2"   | -08  | Q2A1110505A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 74.5          | Ø30   | 27 | 27 |   |
| 19           | 3/4"   | -12  | Q2A1110505A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 88.2          | Ø38   | 34 | 34 |   |
| 25           | 1"     | -16  | Q2A1110505A-16-16 | 35 kPa           | 1"      | 1"     | 100.9         | Ø45   | 41 | 41 |   |
| 31           | 1-1/4" | -20  | Q2A1110505A-20-20 | 35 kPa           | 1-1/4"  | 1-1/4" | 122.4         | Ø55   | 50 | 50 |   |
| 38           | 1-1/2" | -24  | Q2A1110505A-24-24 | 35 kPa           | 1-1/2"  | 1-1/2" | 141           | Ø66   | 60 | 60 |   |
| 51           | 2"     | -32  | Q2A1110505A-32-32 | 35 kPa           | 2"      | 2"     | 173.7         | Ø82   | 75 | 75 |   |



## Q2A1111111

MALE-MALE, STANDARD  
**INLET:** METRIC MALE 24° CONE SEAT  
LIGHT TYPE DIN 3861 / ISO 8434-1  
**OUTLET:** METRIC MALE 24° CONE SEAT  
LIGHT TYPE DIN 3861 / ISO 8434-1  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |        |      | PART NUMBER       | OPENING PRESSURE | THREADS |         | DIMENSIONS mm |       |    |    |   |
|--------------|--------|------|-------------------|------------------|---------|---------|---------------|-------|----|----|---|
| DN           | inch   | Dash |                   |                  | INLET   | OUTLET  | A             | B     | C  | D  | E |
| 6            | 1/4"   | -04  | Q2A1111111A-12-12 | 35 kPa           | M12X1,5 | M12X1,5 | 50.5          | Ø21   | 19 | 19 |   |
| 6            | 1/4"   | -04  | Q2A1111111A-14-14 | 36 kPa           | M14X1,5 | M14X1,5 | 50.5          | Ø21   | 19 | 19 |   |
| 10           | 3/8"   | -06  | Q2A1111111A-18-18 | 35 kPa           | M18X1,5 | M18X1,5 | 58.5          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2"   | -08  | Q2A1111111A-22-22 | 35 kPa           | M22X1,5 | M22X1,5 | 66.5          | Ø30   | 27 | 27 |   |
| 19           | 3/4"   | -12  | Q2A1111111A-26-26 | 35 kPa           | M26X1,5 | M26X1,5 | 74.5          | Ø38   | 34 | 34 |   |
| 25           | 1"     | -16  | Q2A1111111A-30-30 | 35 kPa           | M30X2   | M30X2   | 84.5          | Ø45   | 41 | 41 |   |
| 31           | 1-1/4" | -20  | Q2A1111111A-36-36 | 35 kPa           | M36X2   | M36X2   | 104           | Ø55   | 50 | 50 |   |

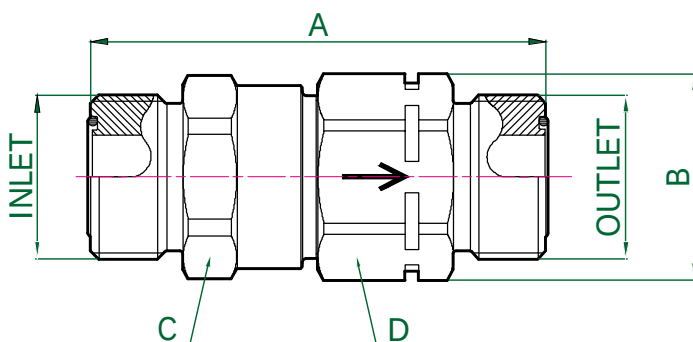


## Q2A111212

MALE-MALE, STANDARD

**INLET:** METRIC MALE 24° CONE SEAT  
HEAVY TYPE DIN 3861 / ISO 8434-1**OUTLET:** METRIC MALE 24° CONE SEAT  
HEAVY TYPE DIN 3861 / ISO 8434-1**MATERIAL:** STEEL**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |         | DIMENSIONS mm |       |    |    |   |
|--------------|------|------|-------------------|------------------|---------|---------|---------------|-------|----|----|---|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET  | A             | B     | C  | D  | E |
| 6            | 1/4" | -04  | Q2A1111212A-16-16 | 35 kPa           | M16X1,5 | M16X1,5 | 54.5          | Ø21   | 19 | 19 |   |
| 10           | 3/8" | -06  | Q2A1111212A-20-20 | 35 kPa           | M20X1,5 | M20X1,5 | 60.5          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2" | -08  | Q2A1111212A-24-24 | 35 kPa           | M24X1,5 | M24X1,5 | 70.5          | Ø30   | 27 | 27 |   |
| 19           | 3/4" | -12  | Q2A1111212A-30-30 | 35 kPa           | M30X2   | M30X2   | 82.5          | Ø38   | 34 | 34 |   |
| 25           | 1"   | -16  | Q2A1111212A-36-36 | 35 kPa           | M36X2   | M36X2   | 92.5          | Ø45   | 41 | 41 |   |

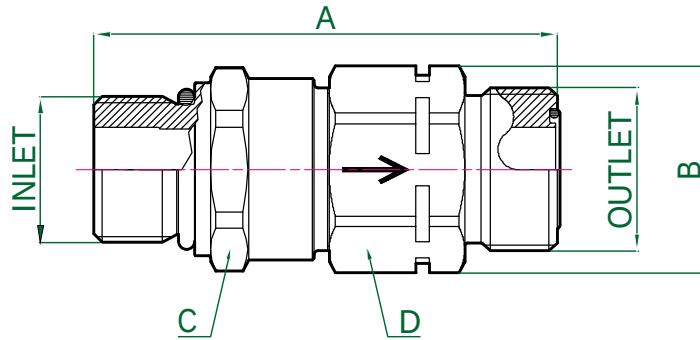


## Q2A1112424

MALE-MALE, STANDARD

**INLET:** ORFS MALE ISO 8434-3  
/ SAE J1453**OUTLET:** ORFS MALE ISO 8434-3  
/ SAE J1453**MATERIAL:** STEEL**SEALS:** NBR (NITRILE)

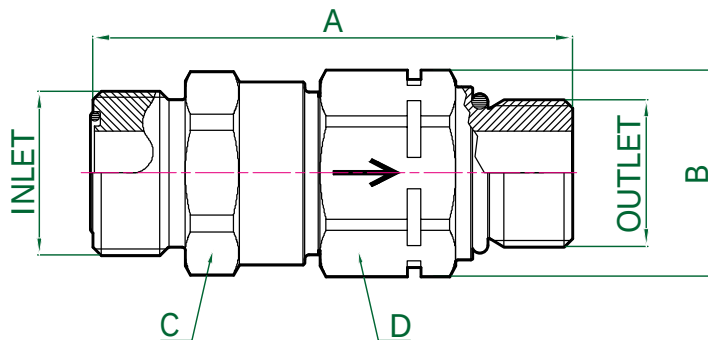
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |    |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|----|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D  | E |
| 10           | 3/8" | -06  | Q2A1112424A-06-06 | 35 kPa           | 11/16"-16 UN  | 11/16"-16 UN  | 58.9          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2" | -08  | Q2A1112424A-08-08 | 35 kPa           | 13/16"-16 UN  | 13/16"-16 UN  | 68.1          | Ø30   | 27 | 27 |   |
| 20           | 3/4" | -12  | Q2A1112424A-10-10 | 35 kPa           | 1"-14 UNS     | 1"-14 UNS     | 74.3          | Ø38   | 34 | 34 |   |
| 20           | 3/4" | -12  | Q2A1112424A-12-12 | 35 kPa           | 1.3/16"-12 UN | 1.3/16"-12 UN | 83.8          | Ø38   | 34 | 34 |   |
| 25           | 1"   | -16  | Q2A1112424A-16-16 | 35 kPa           | 1.7/16"-12 UN | 1.7/16"-12 UN | 91.5          | Ø45   | 41 | 41 |   |



## Q2A1113224

MALE-MALE, STANDARD  
**INLET:** MALE O'RING BOSS  
(NON-ADJUSTABLE HEAVY) SAE J1926-2  
**OUTLET:** ORFS MALE ISO 8434-3  
/ SAE J1453  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

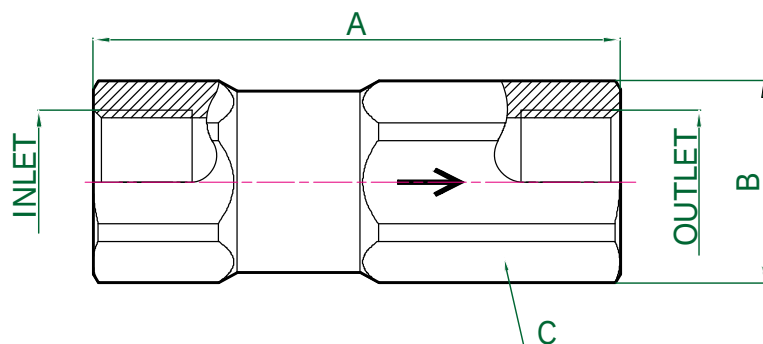
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |    |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|----|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D  | E |
| 10           | 3/8" | -06  | Q2A1113224A-06-06 | 35 kPa           | 9/16"-18 UNF  | 11/16"-16 UN  | 59.7          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2" | -08  | Q2A1113224A-08-08 | 35 kPa           | 3/4"-16 UNF   | 13/16"-16 UN  | 69.3          | Ø30   | 27 | 27 |   |
| 20           | 3/4" | -12  | Q2A1113224A-10-10 | 35 kPa           | 7/8"-14 UNF   | 1"-14 UNS     | 80.5          | Ø38   | 34 | 34 |   |
| 20           | 3/4" | -12  | Q2A1113224A-12-12 | 35 kPa           | 1.1/16"-12 UN | 1.3/16"-12 UN | 86            | Ø38   | 34 | 34 |   |
| 25           | 1"   | -16  | Q2A1113224A-16-16 | 35 kPa           | 1.5/16"-12 UN | 1.7/16"-12 UN | 92.5          | Ø45   | 41 | 41 |   |



## Q2A1112432

MALE-MALE, STANDARD  
**INLET:** ORFS MALE ISO 8434-3  
/ SAE J1453  
**OUTLET:** MALE O'RING BOSS  
(NON-ADJUSTABLE HEAVY) SAE J1926-2  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |    |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|----|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D  | E |
| 10           | 3/8" | -06  | Q2A1112432A-06-06 | 35 kPa           | 11/16"-16 UN  | 9/16"-18 UNF  | 60.7          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2" | -08  | Q2A1112432A-08-08 | 35 kPa           | 13/16"-16 UN  | 3/4"-16 UNF   | 72            | Ø30   | 27 | 27 |   |
| 20           | 3/4" | -12  | Q2A1112432A-10-10 | 35 kPa           | 1"-14 UNS     | 7/8"-14 UNF   | 81.3          | Ø38   | 34 | 34 |   |
| 20           | 3/4" | -12  | Q2A1112432A-12-12 | 35 kPa           | 1.3/16"-12 UN | 1.1/16"-12 UN | 85.3          | Ø38   | 34 | 34 |   |
| 25           | 1"   | -16  | Q2A1112432A-16-16 | 35 kPa           | 1.7/16"-12 UN | 1.5/16"-12 UN | 92.5          | Ø45   | 41 | 41 |   |



## Q2A2100404

FEMALE-FEMALE, STANDARD

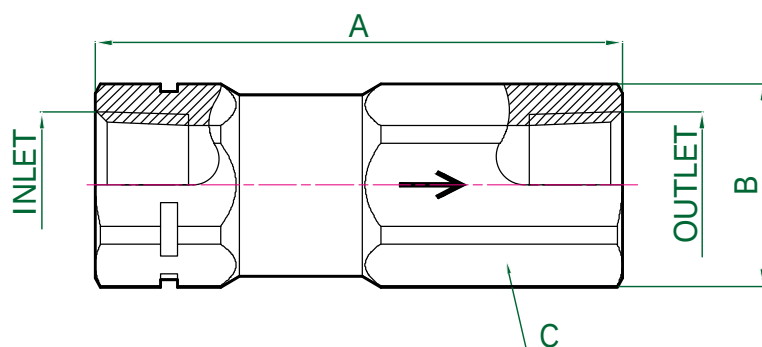
**INLET:** BSP FIXED FEMALE  
DIN 3852-2 'FORM X' / ISO 1179-1

**OUTLET:** BSP FIXED FEMALE  
DIN 3852-2 'FORM X' / ISO 1179-1

**MATERIAL:** STEEL

**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |        |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |       |    |   |   |
|--------------|--------|------|-------------------|------------------|---------|--------|---------------|-------|----|---|---|
| DN           | inch   | Dash |                   |                  | INLET   | OUTLET | A             | B     | C  | D | E |
| 6            | 1/4"   | -04  | Q2A2100404A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 60            | Ø21   | 19 |   |   |
| 10           | 3/8"   | -06  | Q2A2100404A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 65 (67*)      | Ø24.2 | 22 |   |   |
| 12.5         | 1/2"   | -08  | Q2A2100404A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 77 (81*)      | Ø29.6 | 27 |   |   |
| 19           | 3/4"   | -12  | Q2A2100404A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 90            | Ø37.4 | 34 |   |   |
| 25           | 1"     | -16  | Q2A2100404A-16-16 | 35 kPa           | 1"      | 1"     | 104           | Ø45   | 41 |   |   |
| 31           | 1-1/4" | -20  | Q2A2100404A-20-20 | 35 kPa           | 1-1/4"  | 1-1/4" | 128.5         | Ø55   | 50 |   |   |
| 38           | 1-1/2" | -24  | Q2A2100404A-24-24 | 35 kPa           | 1-1/2"  | 1-1/2" | 148           | Ø66   | 60 |   |   |
| 51           | 2"     | -32  | Q2A2100404A-32-32 | 35 kPa           | 2"      | 2"     | 178           | Ø82   | 75 |   |   |



## Q2A2103434

FEMALE-FEMALE, STANDARD

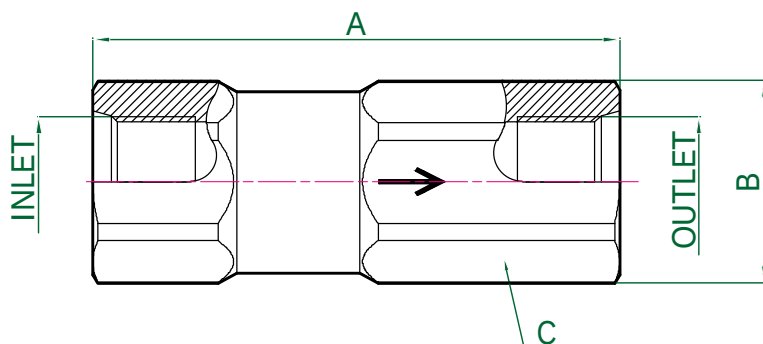
**INLET:** NPTF FIXED FEMALE  
SAE J476A

**OUTLET:** NPTF FIXED FEMALE  
SAE J476A

**MATERIAL:** STEEL

**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |        |      | PART NUMBER       | OPENING PRESSURE | THREADS     |             | DIMENSIONS mm |       |    |   |   |
|--------------|--------|------|-------------------|------------------|-------------|-------------|---------------|-------|----|---|---|
| DN           | inch   | Dash |                   |                  | INLET       | OUTLET      | A             | B     | C  | D | E |
| 6            | 1/4"   | -04  | Q2A2103434A-04-04 | 35 kPa           | 1/4" NPTF   | 1/4" NPTF   | 60            | Ø21   | 19 |   |   |
| 10           | 3/8"   | -06  | Q2A2103434A-06-06 | 35 kPa           | 3/8" NPTF   | 3/8" NPTF   | 65 (67*)      | Ø24.2 | 22 |   |   |
| 12.5         | 1/2"   | -08  | Q2A2103434A-08-08 | 35 kPa           | 1/2" NPTF   | 1/2" NPTF   | 77 (81*)      | Ø29.6 | 27 |   |   |
| 19           | 3/4"   | -12  | Q2A2103434A-12-12 | 35 kPa           | 3/4" NPTF   | 3/4" NPTF   | 90            | Ø37.4 | 34 |   |   |
| 25           | 1"     | -16  | Q2A2103434A-16-16 | 35 kPa           | 1" NPTF     | 1" NPTF     | 104           | Ø45   | 41 |   |   |
| 31           | 1-1/4" | -20  | Q2A2103434A-20-20 | 35 kPa           | 1-1/4" NPTF | 1-1/4" NPTF | 128.5         | Ø55   | 50 |   |   |
| 38           | 1-1/2" | -24  | Q2A2103434A-24-24 | 35 kPa           | 1-1/2" NPTF | 1-1/2" NPTF | 148           | Ø66   | 60 |   |   |
| 51           | 2"     | -32  | Q2A2103434A-32-32 | 35 kPa           | 2" NPTF     | 2" NPTF     | 178           | Ø82   | 75 |   |   |



## Q2A2103030

FEMALE-FEMALE, STANDARD

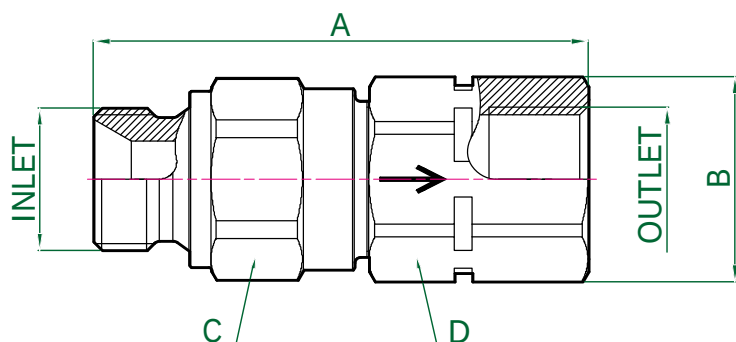
**INLET:** FEMALE O'RING BOSS TYPE  
SAE J1926-1

**OUTLET:** FEMALE O'RING BOSS TYPE  
SAE J1926-1

**MATERIAL:** STEEL

**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 12.5         | 1/2" | -08  | Q2A2103030A-08-08 | 35 kPa           | 3/4"-16 UNF   | 3/4"-16 UNF   | 77 (81*)      | Ø29.6 | 27 |   |   |
| 19           | 3/4" | -12  | Q2A2103030A-12-12 | 35 kPa           | 1.1/16"-12 UN | 1.1/16"-12 UN | 96            | Ø37.4 | 34 |   |   |
| 25           | 1"   | -16  | Q2A2103030A-16-16 | 35 kPa           | 1.5/16"-12 UN | 1.5/16"-12 UN | 104           | Ø45   | 41 |   |   |



## Q2A3110504

MALE-FEMALE, STANDARD

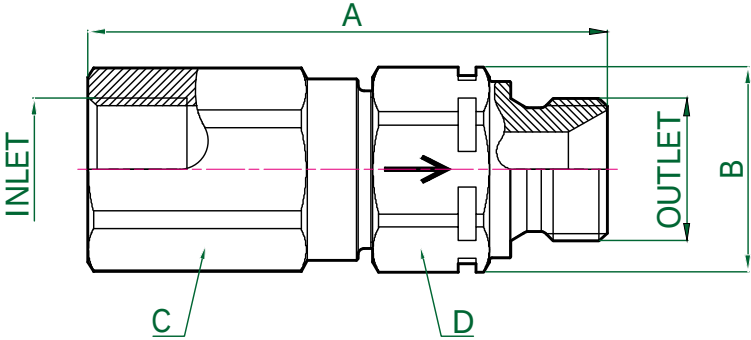
**INLET:** BSP MALE 60° CONE SEAT  
BS5200 / ISO 8434-6

**OUTLET:** BSP FIXED FEMALE  
DIN 3852-2 'FORM X' / ISO 1179-1

**MATERIAL:** STEEL

**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |       |    |    |   |
|--------------|------|------|-------------------|------------------|---------|--------|---------------|-------|----|----|---|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET | A             | B     | C  | D  | E |
| 6            | 1/4" | -04  | Q2A3110504A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 54.8          | Ø21   | 19 | 19 |   |
| 10           | 3/8" | -06  | Q2A3110504A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 63.8          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2" | -08  | Q2A3110504A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 72.3          | Ø30   | 27 | 27 |   |
| 19           | 3/4" | -12  | Q2A3110504A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 83            | Ø38   | 34 | 34 |   |
| 25           | 1"   | -16  | Q2A3110504A-16-16 | 35 kPa           | 1"      | 1"     | 95.7          | Ø45   | 41 | 41 |   |



Q2A4110405

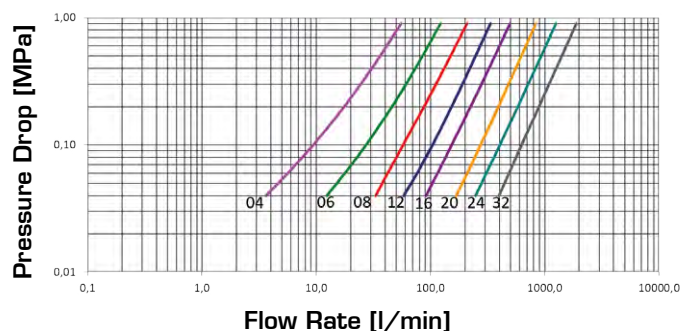
FEMALE-MALE, STANDARD  
**INLET:** BSP FIXED FEMALE  
DIN 3852-2 'FORM X' / ISO 1179-1  
**OUTLET:** BSP MALE 60° CONE SEAT  
BS5200 / ISO 8434-6  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |       |    |    |   |
|--------------|------|------|-------------------|------------------|---------|--------|---------------|-------|----|----|---|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET | A             | B     | C  | D  | E |
| 6            | 1/4" | -04  | Q2A4110405A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 62.5          | Ø21   | 19 | 19 |   |
| 10           | 3/8" | -06  | Q2A4110405A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 70.5          | Ø24,2 | 22 | 22 |   |
| 12.5         | 1/2" | -08  | Q2A4110405A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 83            | Ø30   | 27 | 27 |   |
| 19           | 3/4" | -12  | Q2A4110405A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 96.5          | Ø38   | 34 | 34 |   |
| 25           | 1"   | -16  | Q2A4110405A-16-16 | 35 kPa           | 1"      | 1"     | 111.5         | Ø45   | 41 | 41 |   |

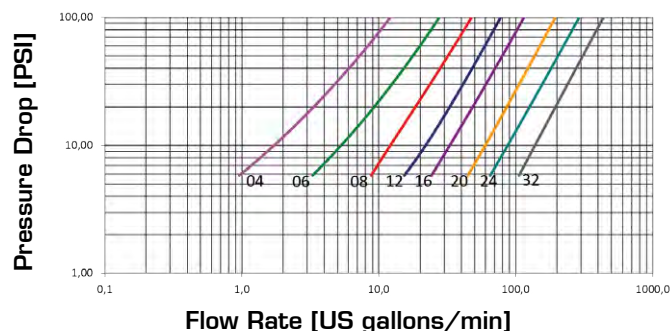


# COMPACT CHECK VALVES

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |      |      |  |       |  |        |  |        |
|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|--------|
| SIZE                                                                                |      |      | WORKING PRESSURE (Dynamic)                                                          |       | RATED FLOW<br>at 0.2 MPa of pressure drop                                             |        | MINIMUM BURST PRESSURE                                                                |        |
| DN                                                                                  | inch | Dash | MPa                                                                                 | PSI   | l/min                                                                                 | US GPM | MPa                                                                                   | PSI    |
| 6                                                                                   | 1/4" | 04   | 35                                                                                  | 5,075 | 5                                                                                     | 1.3    | 140                                                                                   | 20,300 |
| 10                                                                                  | 3/8" | 06   | 35                                                                                  | 5,075 | 11                                                                                    | 2.9    | 140                                                                                   | 20,300 |
| 12                                                                                  | 1/2" | 08   | 35                                                                                  | 5,075 | 37                                                                                    | 9.8    | 140                                                                                   | 20,300 |
| 19                                                                                  | 3/4" | 12   | 35                                                                                  | 5,075 | 73                                                                                    | 19.3   | 140                                                                                   | 20,300 |
| 25                                                                                  | 1"   | 16   | 35                                                                                  | 5,075 | 106                                                                                   | 28.0   | 140                                                                                   | 20,300 |

## PRODUCT DESCRIPTION

- Manufactured from high-quality materials
- Robust design
- Space saving design
- Large range of termination end options available
- Large range of cracking-pressure available

## MATERIAL

Steel, with springs in C98 high-carbon steel. Seals in NBR and back-up ring in PTFE.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

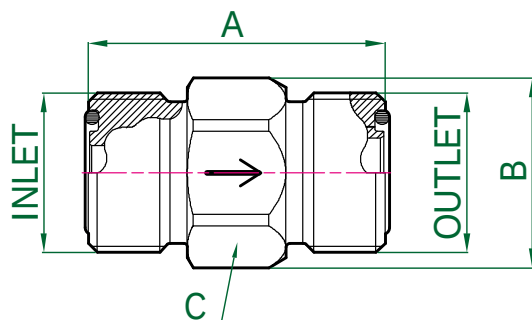
## IMPULSE PRESSURES

1,000,000 cycles at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

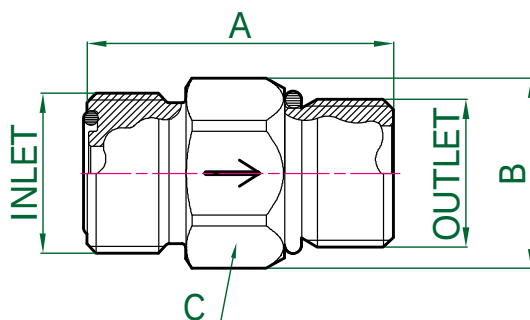




## Q2B1112424

MALE-MALE, COMPACT  
**INLET:** ORFS MALE ISO 8434-3  
/ SAE J1453  
**OUTLET:** ORFS MALE ISO 8434-3  
/ SAE J1453  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

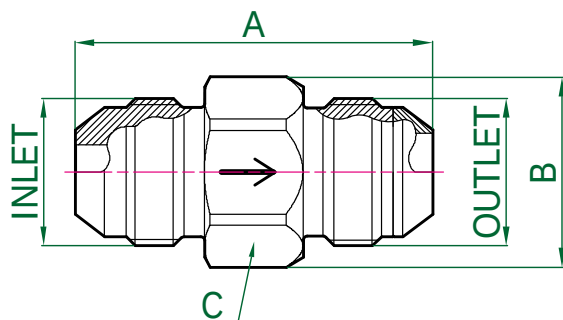
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 6            | 1/4" | -4   | Q2B1112424A-04-04 | 35 kPa           | 9/16"-18 UNF  | 9/16"-18 UNF  | 31            | ø18,8 | 17 |   |   |
| 10           | 3/8" | -6   | Q2B1112424A-06-06 | 35 kPa           | 11/16"-16 UN  | 11/16"-16 UN  | 33.6          | ø21   | 19 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112424A-08-08 | 35 kPa           | 13/16"-16 UN  | 13/16"-16 UN  | 38.3          | ø24,5 | 22 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112424A-10-10 | 35 kPa           | 1"-14 UNS     | 1"-14 UNS     | 43.7          | ø30   | 27 |   |   |
| 20           | 3/4" | -12  | Q2B1112424A-12-12 | 35 kPa           | 1.3/16"-12 UN | 1.3/16"-12 UN | 46.7          | ø35,5 | 32 |   |   |
| 25           | 1"   | -16  | Q2B1112424A-16-16 | 35 kPa           | 1.7/16"-12 UN | 1.7/16"-12 UN | 50.8          | ø42   | 38 |   |   |



## Q2B1112432

MALE-MALE, COMPACT  
**INLET:** ORFS MALE ISO 8434-3  
/ SAE J1453  
**OUTLET:** MALE O'RING BOSS  
(NON-ADJUSTABLE HEAVY) SAE J1926-2  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

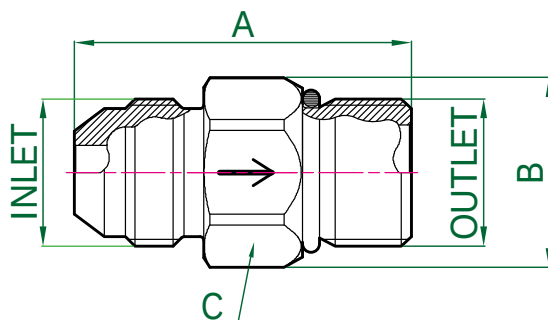
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 10           | 3/8" | -6   | Q2B1112432A-06-06 | 35 kPa           | 11/16"-16 UN  | 9/16"-18 UNF  | 34.4          | ø21   | 19 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112432A-08-08 | 35 kPa           | 13/16"-16 UN  | 3/4"-16 UNF   | 39.5          | ø24,5 | 22 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112432A-10-10 | 35 kPa           | 1"-14 UNS     | 7/8"-14 UNF   | 44.2          | ø30   | 27 |   |   |
| 20           | 3/4" | -12  | Q2B1112432A-12-12 | 35 kPa           | 1.3/16"-12 UN | 1.1/16"-12 UN | 48.2          | ø35,5 | 32 |   |   |
| 25           | 1"   | -16  | Q2B1112432A-16-16 | 35 kPa           | 1.7/16"-12 UN | 1.5/16"-12 UN | 51.8          | ø42   | 38 |   |   |



## Q2B1112525

MALE-MALE, COMPACT  
**INLET:** JIC MALE (37° CONE)  
ISO 8434-2 / SAE J514  
**OUTLET:** JIC MALE (37° CONE)  
ISO 8434-2 / SAE J514  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

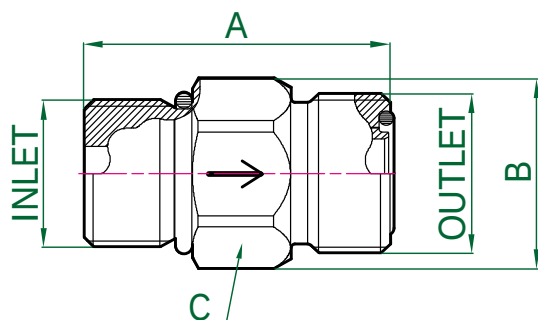
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 6            | 1/4" | -4   | Q2B1112525A-04-04 | 35 kPa           | 7/16"-20 UNF  | 7/16"-20 UNF  | 39.2          | ø18,8 | 17 |   |   |
| 10           | 3/8" | -6   | Q2B1112525A-06-06 | 35 kPa           | 9/16"-18 UNF  | 9/16"-18 UNF  | 39.4          | ø21   | 19 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112525A-08-08 | 35 kPa           | 3/4"-16 UNF   | 3/4"-16 UNF   | 46.1          | ø24,5 | 22 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112525A-10-10 | 35 kPa           | 7/8"-14 UNF   | 7/8"-14 UNF   | 51.3          | ø30   | 27 |   |   |
| 20           | 3/4" | -12  | Q2B1112525A-12-12 | 35 kPa           | 1.1/16"-12 UN | 1.1/16"-12 UN | 56.5          | ø35,5 | 32 |   |   |
| 25           | 1"   | -16  | Q2B1112525A-16-16 | 35 kPa           | 1.5/16"-12 UN | 1.5/16"-12 UN | 62            | ø42   | 38 |   |   |



## Q2B1112532

MALE-MALE, COMPACT  
**INLET:** JIC MALE (37° CONE)  
ISO 8434-2 / SAE J514  
**OUTLET:** MALE O'RING BOSS  
(NON-ADJUSTABLE HEAVY) SAE J1926-2  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

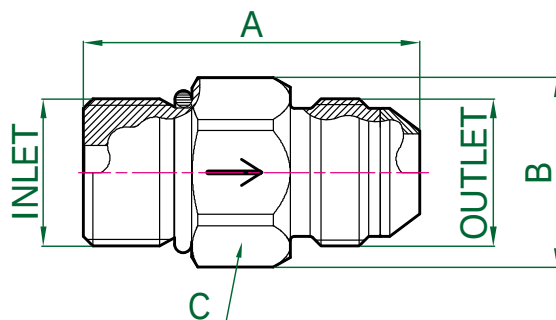
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 10           | 3/8" | -6   | Q2B1112532A-06-06 | 35 kPa           | 9/16"-18 UNF  | 9/16"-18 UNF  | 37.3          | ø21   | 19 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112532A-08-08 | 35 kPa           | 3/4"-16 UNF   | 3/4"-16 UNF   | 43.4          | ø24,5 | 22 |   |   |
| 12.5         | 1/2" | -8   | Q2B1112532A-10-10 | 35 kPa           | 7/8"-14 UNF   | 7/8"-14 UNF   | 48            | ø30   | 27 |   |   |
| 20           | 3/4" | -12  | Q2B1112532A-12-12 | 35 kPa           | 1.1/16"-12 UN | 1.1/16"-12 UN | 53.1          | ø35,5 | 32 |   |   |
| 25           | 1"   | -16  | Q2B1112532A-16-16 | 35 kPa           | 1.5/16"-12 UN | 1.5/16"-12 UN | 57.4          | ø42   | 38 |   |   |



## Q2B1113224

MALE-MALE, COMPACT  
**INLET:** MALE O'RING BOSS  
(NON-ADJUSTABLE HEAVY) SAE J1926-2  
**OUTLET:** ORFS MALE ISO 8434-3  
/ SAE J1453  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 6            | 1/4" | -4   | Q2B1113224A-04-04 | 35 kPa           | 7/16"-20 UNF  | 9/16"-18 UNF  | 32.2          | ø18,8 | 17 |   |   |
| 10           | 3/8" | -6   | Q2B1113224A-06-06 | 35 kPa           | 9/16"-18 UNF  | 11/16"-16 UN  | 34.4          | ø21   | 19 |   |   |
| 12.5         | 1/2" | -8   | Q2B1113224A-08-08 | 35 kPa           | 3/4"-16 UNF   | 13/16"-16 UN  | 39.5          | ø24,5 | 22 |   |   |
| 12.5         | 1/2" | -8   | Q2B1113224A-10-10 | 35 kPa           | 7/8"-14 UNF   | 1"-14 UNS     | 44.2          | ø30   | 27 |   |   |
| 20           | 3/4" | -12  | Q2B1113224A-12-12 | 35 kPa           | 1.1/16"-12 UN | 1.3/16"-12 UN | 48.2          | ø35,5 | 32 |   |   |
| 25           | 1"   | -16  | Q2B1113224A-16-16 | 35 kPa           | 1.5/16"-12 UN | 1.7/16"-12 UN | 51.8          | ø42   | 38 |   |   |



## Q2B1113225

MALE-MALE, COMPACT  
**INLET:** MALE O'RING BOSS  
(NON-ADJUSTABLE HEAVY) SAE J1926-2  
**OUTLET:** JIC MALE (37° CONE)  
ISO 8434-2 / SAE J514  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS       |               | DIMENSIONS mm |       |    |   |   |
|--------------|------|------|-------------------|------------------|---------------|---------------|---------------|-------|----|---|---|
| DN           | inch | Dash |                   |                  | INLET         | OUTLET        | A             | B     | C  | D | E |
| 6            | 1/4" | -4   | Q2B1113225A-04-04 | 35 kPa           | 7/16"-20 UNF  | 7/16"-20 UNF  | 36.2          | ø18,8 | 17 |   |   |
| 10           | 3/8" | -6   | Q2B1113225A-06-06 | 35 kPa           | 9/16"-18 UNF  | 9/16"-18 UNF  | 37.3          | ø21   | 19 |   |   |
| 12.5         | 1/2" | -8   | Q2B1113225A-08-08 | 35 kPa           | 3/4"-16 UNF   | 3/4"-16 UNF   | 43.4          | ø24,5 | 22 |   |   |
| 12.5         | 1/2" | -8   | Q2B1113225A-10-10 | 35 kPa           | 7/8"-14 UNF   | 7/8"-14 UNF   | 48            | ø30   | 27 |   |   |
| 20           | 3/4" | -12  | Q2B1113225A-12-12 | 35 kPa           | 1.1/16"-12 UN | 1.1/16"-12 UN | 53.1          | ø35,5 | 32 |   |   |
| 25           | 1"   | -16  | Q2B1113225A-16-16 | 35 kPa           | 1.5/16"-12 UN | 1.5/16"-12 UN | 57.4          | ø42   | 38 |   |   |



## BI-DIRECTIONAL CHECK VALVES

### TECHNICAL DATA

|  |      |      |  |      |  |        |  |       |
|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------|
| SIZE                                                                              |      |      | WORKING PRESSURE (Dynamic)                                                        |      | RATED FLOW<br>at 0.2 MPa of pressure drop                                           |        | MINIMUM BURST PRESSURE                                                              |       |
| DN                                                                                | inch | Dash | MPa                                                                               | PSI  | l/min                                                                               | US GPM | MPa                                                                                 | PSI   |
| 10                                                                                | 3/8" | 06   | 35                                                                                | 5075 | 39                                                                                  | 10     | 150                                                                                 | 21750 |
| 12.5                                                                              | 1/2" | 08   | 35                                                                                | 5075 | 84                                                                                  | 22     | 140                                                                                 | 20300 |
| 19                                                                                | 3/4" | -12  | 35                                                                                | 5075 | 119                                                                                 | 31     | 140                                                                                 | 20300 |

### PRODUCT DESCRIPTION

- Manufactured from high-quality materials
- Robust design
- Large range of termination end options available
- A-B cracking pressures of 500kPa and 800kPa available
- B-A cracking pressure of 35kPa

### MATERIAL

Steel, with springs in C98 high-carbon steel. Seals in NBR and back-up ring in PTFE.

### WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

### SAFETY FACTOR

4:1 for dynamic pressures

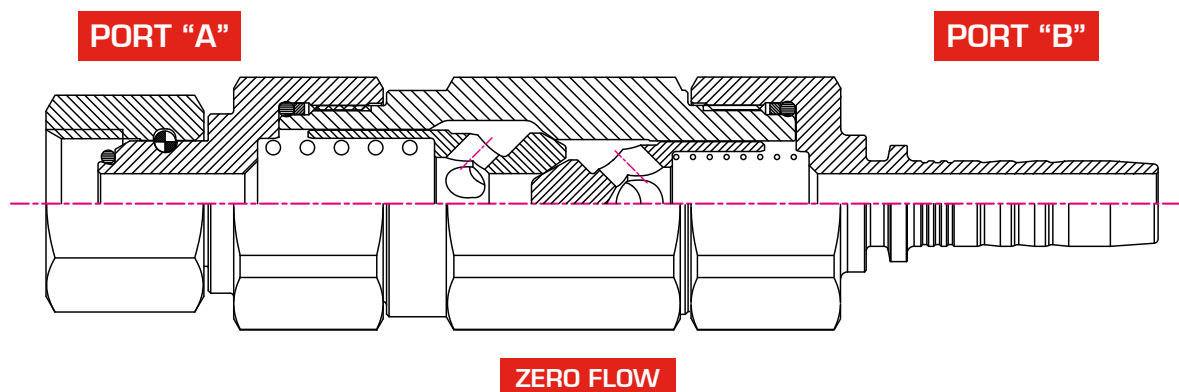
### IMPULSE PRESSURES

1,000,000 cycles at 120% of the rated one (freq. 1Hz)

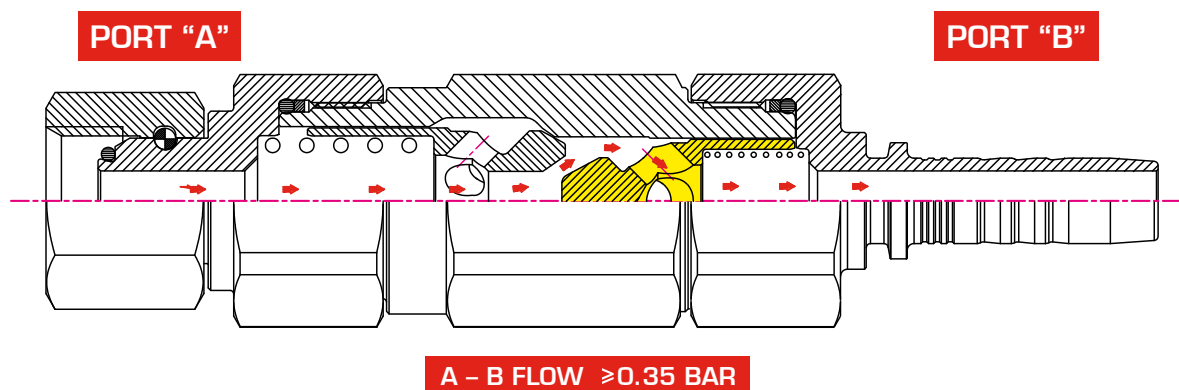
### TEST SPECIFICATIONS

ISO 18869

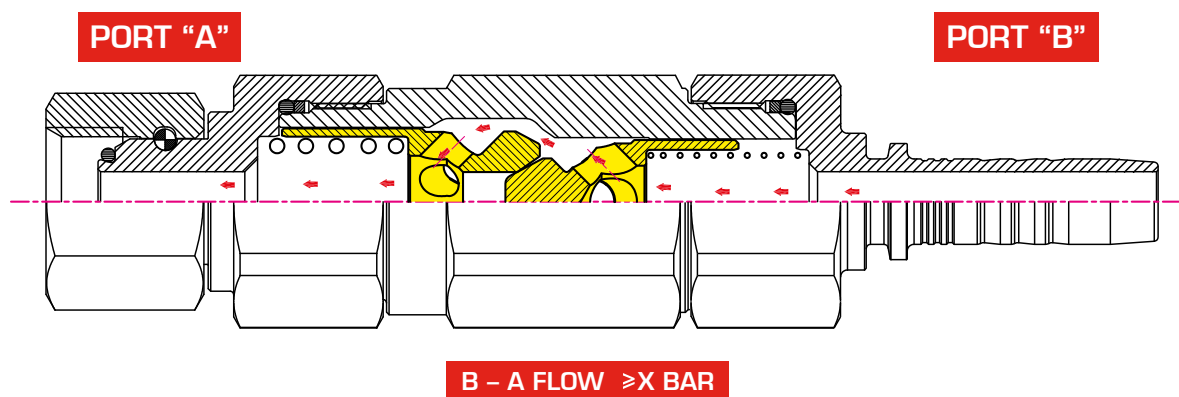
## How Do Manuli Bi-Directional Check Valves Work?



In it's zero flow state the bi-directional check valve is sealed in both flow directions, meaning that no fluid can cross from port "A" to port "B" or vice versa.

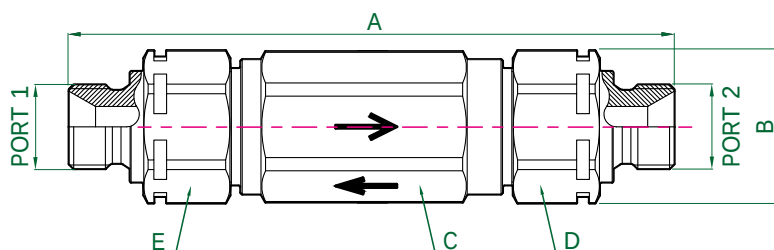


When the pressure of the fluid flowing from port "A" to port "B" exceeds the specified valve rating, "X" kPa, the highlighted valve assembly is similarly forced out of the way to allow the fluid to flow.



When the pressure of the fluid flowing from port "B" to port "A" exceeds 35 kPa the highlighted valve assembly is forced out of the way, thus allowing the fluid to flow.

## Q2D1110505



MALE-MALE, BI-DIRECTIONAL

**INLET:** BSP MALE 60° CONE SEAT  
BS5200 / ISO 8434-6

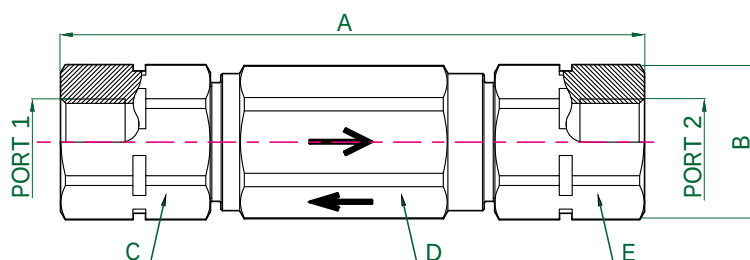
**OUTLET:** BSP MALE 60° CONE SEAT  
BS5200 / ISO 8434-6

**MATERIAL:** STEEL

**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER        | OPENING PRESSURE |        | THREADS |        | DIMENSIONS mm |     |    |    |    |
|--------------|------|------|--------------------|------------------|--------|---------|--------|---------------|-----|----|----|----|
| DN           | inch | Dash |                    | 1 -> 2           | 2 -> 1 | INLET   | OUTLET | A             | B   | C  | D  | E  |
| 10           | 3/8" | -6   | Q2D1110505N-06-06A | 500 kPa          | 35 kPa | 3/8"    | 3/8"   | 110.6         | Ø30 | 27 | 27 | 27 |
| 10           | 3/8" | -6   | Q2D1110505R-06-06A | 800 kPa          | 35 kPa | 3/8"    | 3/8"   | 110.6         | Ø30 | 27 | 27 | 27 |
| 12.5         | 1/2" | -8   | Q2D1110505N-08-08A | 500 kPa          | 35 kPa | 1/2"    | 1/2"   | 149.8         | Ø38 | 34 | 34 | 34 |
| 12.5         | 1/2" | -8   | Q2D1110505R-08-08A | 800 kPa          | 35 kPa | 1/2"    | 1/2"   | 149.8         | Ø38 | 34 | 34 | 34 |
| 19           | 3/4" | -12  | Q2D1110505N-12-12A | 500 kPa          | 35 kPa | 3/4"    | 3/4"   | 173.8         | Ø45 | 41 | 41 | 41 |
| 19           | 3/4" | -12  | Q2D1110505R-12-12A | 800 kPa          | 35 kPa | 3/4"    | 3/4"   | 173.8         | Ø45 | 41 | 41 | 41 |

## Q2D2110404



FEMALE-FEMALE, BI-DIRECTIONAL

**INLET:** BSP FIXED FEMALE  
DIN 3852-2 'FORM X' / ISO 1179-1

**OUTLET:** BSP FIXED FEMALE  
DIN 3852-2 'FORM X' / ISO 1179-1

**MATERIAL:** STEEL

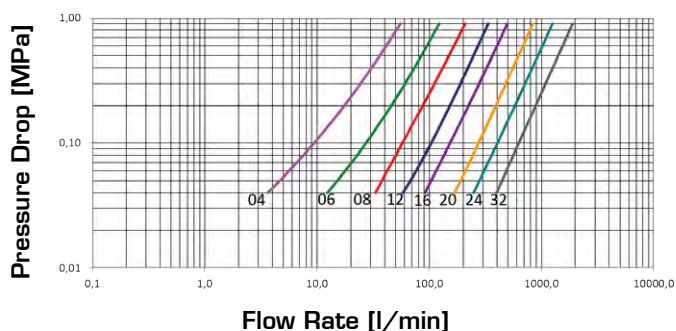
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER        | OPENING PRESSURE |        | THREADS |        | DIMENSIONS mm |     |    |    |    |
|--------------|------|------|--------------------|------------------|--------|---------|--------|---------------|-----|----|----|----|
| DN           | inch | Dash |                    | 1 -> 2           | 2 -> 1 | INLET   | OUTLET | A             | B   | C  | D  | E  |
| 10           | 3/8" | -06  | Q2D2110404N-06-06A | 500 kPa          | 35 kPa | 3/8"    | 3/8"   | 105.2         | Ø30 | 27 | 27 | 27 |
| 10           | 3/8" | -06  | Q2D2110404R-06-06A | 800 kPa          | 35 kPa | 3/8"    | 3/8"   | 105.2         | Ø30 | 27 | 27 | 27 |
| 12.5         | 1/2" | -08  | Q2D2110404N-08-08A | 500 kPa          | 35 kPa | 1/2"    | 1/2"   | 139.4         | Ø38 | 34 | 34 | 34 |
| 12.5         | 1/2" | -08  | Q2D2110404R-08-08A | 800 kPa          | 35 kPa | 1/2"    | 1/2"   | 139.4         | Ø38 | 34 | 34 | 34 |
| 19           | 3/4" | -12  | Q2D2110404N-12-12A | 500 kPa          | 35 kPa | 3/4"    | 3/4"   | 163.4         | Ø45 | 41 | 41 | 41 |
| 19           | 3/4" | -12  | Q2D2110404R-12-12A | 800 kPa          | 35 kPa | 3/4"    | 3/4"   | 163.4         | Ø45 | 41 | 41 | 41 |

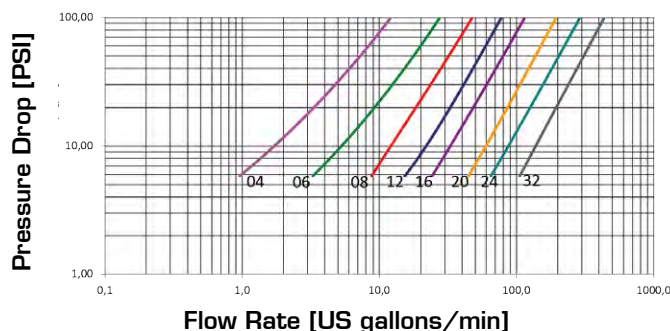


# STANDARD CHECK VALVES DHI (DIRECT HOSE INTERFACE)

Pressure Drop



Pressure Drop



## TECHNICAL DATA

|  |        |      |  |      |  |        |  |       |
|-------------------------------------------------------------------------------------|--------|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|-------|
| SIZE                                                                                |        |      | WORKING PRESSURE (Dynamic)                                                          |      | RATED FLOW<br>at 0.2 MPa of pressure drop                                            |        | MINIMUM BURST PRESSURE                                                                |       |
| DN                                                                                  | inch   | Dash | MPa                                                                                 | PSI  | l/min                                                                                | US GPM | MPa                                                                                   | PSI   |
| 6                                                                                   | 1/4"   | 04   | 45                                                                                  | 6525 | 18                                                                                   | 4.8    | 180                                                                                   | 26100 |
| 10                                                                                  | 3/8"   | 06   | 35                                                                                  | 5075 | 46                                                                                   | 12.2   | 140                                                                                   | 20300 |
| 12                                                                                  | 1/2"   | 08   | 35                                                                                  | 5075 | 88                                                                                   | 23.2   | 140                                                                                   | 20300 |
| 19                                                                                  | 3/4"   | 12   | 35                                                                                  | 5075 | 153                                                                                  | 40.4   | 140                                                                                   | 20300 |
| 25                                                                                  | 1"     | 16   | 35                                                                                  | 5075 | 225                                                                                  | 59.4   | 140                                                                                   | 20300 |
| 31                                                                                  | 1.1/4" | 20   | 35                                                                                  | 5075 | 394                                                                                  | 104.1  | 140                                                                                   | 20300 |
| 38                                                                                  | 1.1/2" | 24   | 35                                                                                  | 5075 | 580                                                                                  | 153.2  | 140                                                                                   | 20300 |
| 51                                                                                  | 2"     | 32   | 35                                                                                  | 5075 | 890                                                                                  | 235.1  | 140                                                                                   | 20300 |

## PRODUCT DESCRIPTION

- Manufactured from high-quality materials
- Robust design
- Large range of termination end options available
- Large range of cracking-pressure available
- Direct-to-hose connection minimises potential leak points

## MATERIAL

Steel, with springs in C98 high-carbon steel. Seals in NBR and back-up ring in PTFE.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

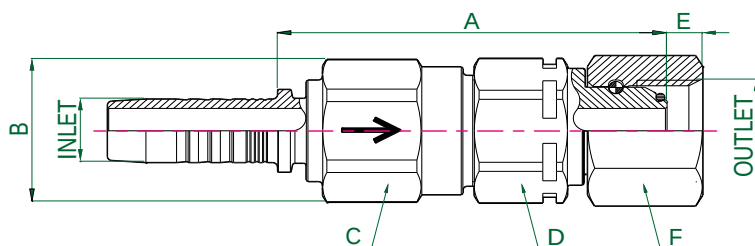
## IMPULSE PRESSURES

1,000,000 cycles at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

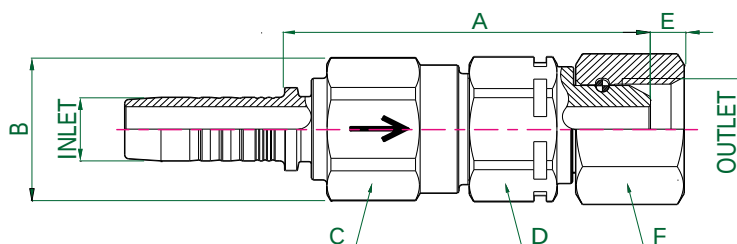
## Q2A311M108



TAIL-FEMALE, STANDARD  
**INLET:** MULTIFIT TAIL, STRAIGHT  
**OUTLET:** BSP O-RING FEMALE  
60° CONE BS5200 / ISO 8434-6  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |       |    |    |      |    |
|--------------|------|------|-------------------|------------------|---------|--------|---------------|-------|----|----|------|----|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET | A             | B     | C  | D  | E    | F  |
| 6            | 1/4" | -4   | Q2A311M108A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 50.2          | Ø21   | 19 | 19 | 4.1  | 19 |
| 10           | 3/8" | -6   | Q2A311M108A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 62.3          | Ø24,2 | 22 | 22 | 5.9  | 22 |
| 12.5         | 1/2" | -8   | Q2A311M108A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 70.9          | Ø30   | 27 | 27 | 6.5  | 27 |
| 19           | 3/4" | -12  | Q2A311M108A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 80.6          | Ø38   | 34 | 34 | 8.5  | 32 |
| 25           | 1"   | -16  | Q2A311M108A-16-16 | 35 kPa           | 1"      | 1"     | 86.9          | Ø45   | 41 | 41 | 10.6 | 38 |

## Q2A311M105

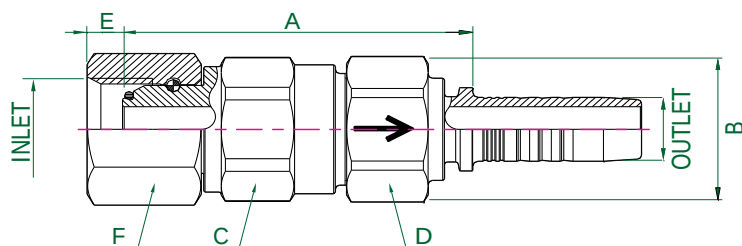


TAIL-FEMALE, STANDARD  
**INLET:** MULTIFIT TAIL, STRAIGHT  
**OUTLET:** BSP FEMALE 60° CONE  
BS5200 / ISO 8434-6  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |        |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |     |    |    |      |    |
|--------------|--------|------|-------------------|------------------|---------|--------|---------------|-----|----|----|------|----|
| DN           | inch   | Dash |                   |                  | INLET   | OUTLET | A             | B   | C  | D  | E    | F  |
| 31           | 1-1/4" | -20  | Q2A311M105A-20-20 | 35 kPa           | 1-1/4"  | 1-1/4" | 111.2         | Ø55 | 50 | 50 | 10.5 | 50 |
| 38           | 1-1/2" | -24  | Q2A311M105A-24-24 | 35 kPa           | 1-1/2"  | 1-1/2" | 126           | Ø66 | 60 | 60 | 12.5 | 60 |



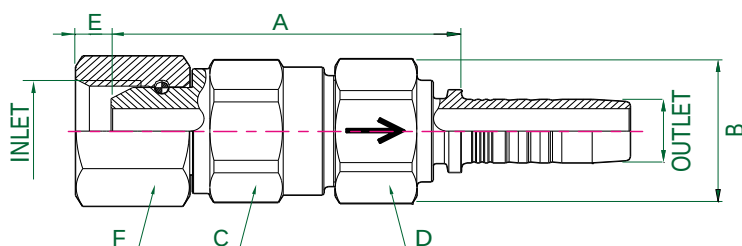
## Q2A41108M1



FEMALE-TAIL, STANDARD  
**INLET:** BSP O-RING FEMALE  
 60° CONE BS5200 / ISO 8434-6  
**OUTLET:** MULTIFIT TAIL, STRAIGHT  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

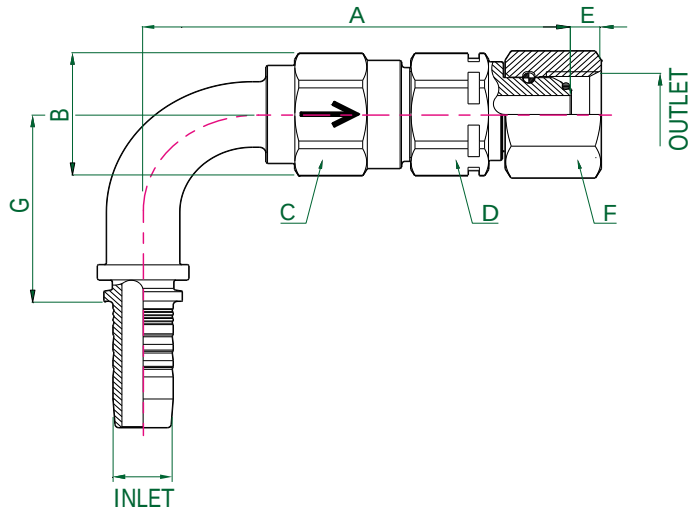
| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |       |    |    |      |    |
|--------------|------|------|-------------------|------------------|---------|--------|---------------|-------|----|----|------|----|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET | A             | B     | C  | D  | E    | F  |
| 6            | 1/4" | -4   | Q2A41108M1A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 48            | Ø21   | 19 | 19 | 4.1  | 19 |
| 10           | 3/8" | -6   | Q2A41108M1A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 57.3          | Ø24,2 | 22 | 22 | 5.9  | 22 |
| 12.5         | 1/2" | -8   | Q2A41108M1A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 64.3          | Ø30   | 27 | 27 | 6.5  | 27 |
| 19           | 3/4" | -12  | Q2A41108M1A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 73.4          | Ø38   | 34 | 34 | 8.5  | 32 |
| 25           | 1"   | -16  | Q2A41108M1A-16-16 | 35 kPa           | 1"      | 1"     | 84.4          | Ø45   | 41 | 41 | 10.6 | 38 |

## Q2A41105M1



FEMALE-TAIL, STANDARD  
**INLET:** BSP FEMALE 60° CONE  
 BS5200 / ISO 8434-6  
**OUTLET:** MULTIFIT TAIL, STRAIGHT  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

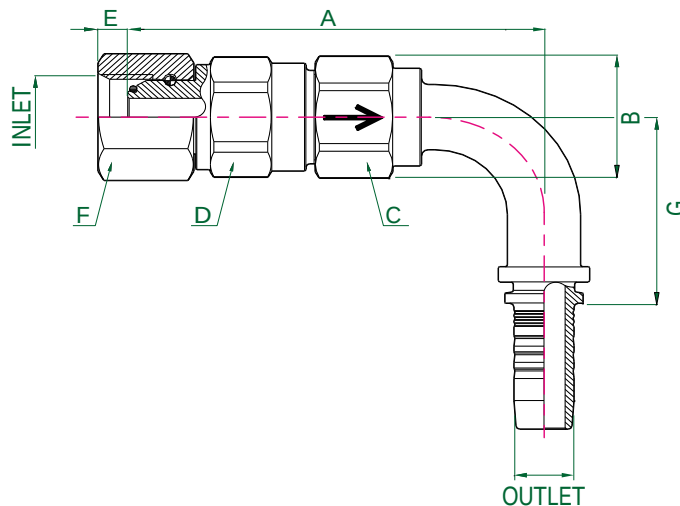
| NOMINAL SIZE |        |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |     |    |    |      |    |
|--------------|--------|------|-------------------|------------------|---------|--------|---------------|-----|----|----|------|----|
| DN           | inch   | Dash |                   |                  | INLET   | OUTLET | A             | B   | C  | D  | E    | F  |
| 31           | 1-1/4" | -20  | Q2A41105M1A-20-20 | 35 kPa           | 1-1/4"  | 1-1/4" | 111.2         | Ø55 | 50 | 50 | 10.5 | 50 |
| 38           | 1-1/2" | -24  | Q2A41105M1A-24-24 | 35 kPa           | 1-1/2"  | 1-1/2" | 126           | Ø66 | 60 | 60 | 12.5 | 60 |



## Q2A311M908

TAIL-FEMALE, STANDARD  
**INLET:** MULTIFIT TAIL, 90° SWEPT  
**OUTLET:** BSP O-RING FEMALE  
60° CONE BS5200 / ISO 8434-6  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |     |    |    |      |    |      |
|--------------|------|------|-------------------|------------------|---------|--------|---------------|-----|----|----|------|----|------|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET | A             | B   | C  | D  | E    | F  | G    |
| 6            | 1/4" | -4   | Q2A311M908A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 64.8          | Ø21 | 19 | 19 | 4.1  | 19 | 30.1 |
| 10           | 3/8" | -6   | Q2A311M908A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 79.9          | Ø24 | 22 | 22 | 5.9  | 22 | 37   |
| 12.5         | 1/2" | -8   | Q2A311M908A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 94.5          | Ø30 | 27 | 27 | 6.5  | 27 | 45.9 |
| 19           | 3/4" | -12  | Q2A311M908A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 115.8         | Ø38 | 34 | 34 | 8.5  | 32 | 62.5 |
| 25           | 1"   | -16  | Q2A311M908A-16-16 | 35 kPa           | 1"      | 1"     | 132           | Ø45 | 41 | 41 | 10.6 | 38 | 70.6 |



## Q2A41108M9

TAIL-FEMALE, STANDARD  
**INLET:** BSP O-RING FEMALE  
60° CONE BS5200 / ISO 8434-6  
**OUTLET:** MULTIFIT TAIL, 90° SWEPT  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER       | OPENING PRESSURE | THREADS |        | DIMENSIONS mm |     |    |    |      |    |      |
|--------------|------|------|-------------------|------------------|---------|--------|---------------|-----|----|----|------|----|------|
| DN           | inch | Dash |                   |                  | INLET   | OUTLET | A             | B   | C  | D  | E    | F  | G    |
| 6            | 1/4" | -4   | Q2A41108M9A-04-04 | 35 kPa           | 1/4"    | 1/4"   | 62.6          | Ø21 | 19 | 19 | 4.1  | 19 | 30.1 |
| 10           | 3/8" | -6   | Q2A41108M9A-06-06 | 35 kPa           | 3/8"    | 3/8"   | 74.9          | Ø24 | 22 | 22 | 5.9  | 22 | 37   |
| 12.5         | 1/2" | -8   | Q2A41108M9A-08-08 | 35 kPa           | 1/2"    | 1/2"   | 88            | Ø30 | 27 | 27 | 6.5  | 27 | 45.9 |
| 19           | 3/4" | -12  | Q2A41108M9A-12-12 | 35 kPa           | 3/4"    | 3/4"   | 108.6         | Ø38 | 34 | 34 | 8.5  | 32 | 62.5 |
| 25           | 1"   | -16  | Q2A41108M9A-16-16 | 35 kPa           | 1"      | 1"     | 129.5         | Ø45 | 41 | 41 | 10.6 | 38 | 70.6 |



# BI-DIRECTIONAL CHECK VALVES DHI (DIRECT HOSE INTERFACE)

| TECHNICAL DATA                                                                    |      |      |                                                                                   |      |                                                                                    |        |                                                                                     |       |
|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------|
|  |      |      |  |      |  |        |  |       |
| SIZE                                                                              |      |      | WORKING PRESSURE (Dynamic)                                                        |      | RATED FLOW<br>at 0.2 MPa of pressure drop                                          |        | MINIMUM BURST PRESSURE                                                              |       |
| DN                                                                                | inch | Dash | MPa                                                                               | PSI  | l/min                                                                              | US GPM | MPa                                                                                 | PSI   |
| 10                                                                                | 3/8" | 06   | 35                                                                                | 5075 | 39                                                                                 | 10     | 150                                                                                 | 21750 |
| 12.5                                                                              | 1/2" | 08   | 35                                                                                | 5075 | 84                                                                                 | 22     | 140                                                                                 | 20300 |
| 19                                                                                | 3/4" | -12  | 35                                                                                | 5075 | 119                                                                                | 31     | 140                                                                                 | 20300 |

## PRODUCT DESCRIPTION

- Manufactured from high-quality materials
- Robust design
- Large range of termination end options available
- A-B cracking pressures of 500kPa and 800kPa available
- B-A cracking pressure of 35kPa
- Direct-to-hose connection minimises potential leak points

## MATERIAL

Steel, with springs in C98 high-carbon steel. Seals in NBR and back-up ring in PTFE.

## WORKING TEMPERATURE

-22°F up to +230°F (-30°C up to +110°C)

## SAFETY FACTOR

4:1 for dynamic pressures

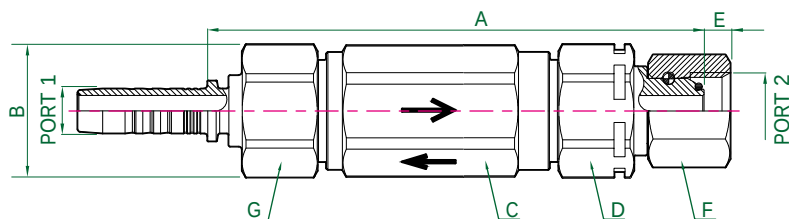
## IMPULSE PRESSURES

1,000,000 cycles at 120% of the rated one (freq. 1Hz)

## TEST SPECIFICATIONS

ISO 18869

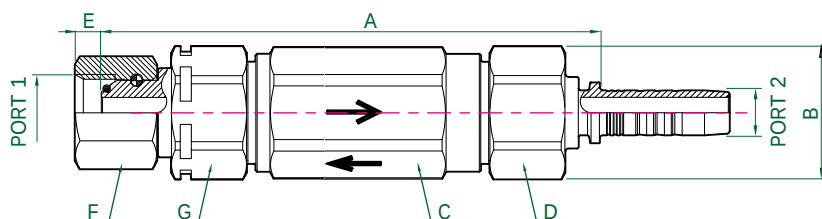
## Q2D311M108



TAIL-FEMALE, BI-DIRECTIONAL  
**INLET:** MULTIFIT TAIL, STRAIGHT  
**OUTLET:** BSP O-RING FEMALE  
60° CONE BS5200 / ISO 8434-6  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER        | OPENING PRESSURE |        | THREADS |        | DIMENSIONS mm |     |    |    |     |    |    |
|--------------|------|------|--------------------|------------------|--------|---------|--------|---------------|-----|----|----|-----|----|----|
| DN           | inch | Dash |                    | 1 -> 2           | 2 -> 1 | INLET   | OUTLET | A             | B   | C  | D  | E   | F  | G  |
| 10           | 3/8" | -6   | Q2D311M108N-06-06A | 500 kPa          | 35 kPa | 3/8"    | 3/8"   | 104.9         | Ø30 | 27 | 27 | 6   | 22 | 27 |
| 10           | 3/8" | -6   | Q2D311M108R-06-06A | 800 kPa          | 35 kPa | 3/8"    | 3/8"   | 104.9         | Ø30 | 27 | 27 | 6   | 22 | 27 |
| 12.5         | 1/2" | -8   | Q2D311M108N-08-08A | 500 kPa          | 35 kPa | 1/2"    | 1/2"   | 139.8         | Ø38 | 34 | 34 | 6.3 | 27 | 34 |
| 12.5         | 1/2" | -8   | Q2D311M108R-08-08A | 800 kPa          | 35 kPa | 1/2"    | 1/2"   | 139.8         | Ø38 | 34 | 34 | 6.3 | 27 | 34 |
| 19           | 3/4" | -12  | Q2D311M108N-12-12A | 500 kPa          | 35 kPa | 3/4"    | 3/4"   | 163.7         | Ø45 | 41 | 41 | 8.5 | 32 | 41 |
| 19           | 3/4" | -12  | Q2D311M108R-12-12A | 800 kPa          | 35 kPa | 3/4"    | 3/4"   | 163.7         | Ø45 | 41 | 41 | 8.5 | 32 | 41 |

## Q2D41108M1

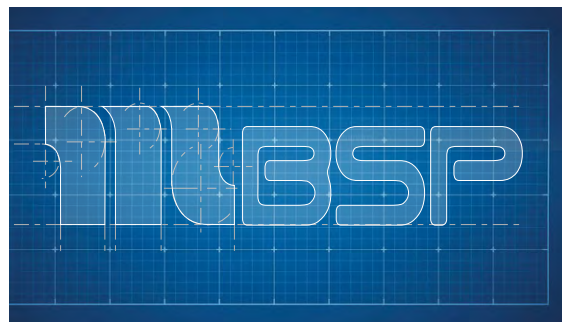


FEMALE-TAIL, BI-DIRECTIONAL  
**INLET:** BSP O-RING FEMALE  
60° CONE BS5200 / ISO 8434-6  
**OUTLET:** MULTIFIT TAIL, STRAIGHT  
**MATERIAL:** STEEL  
**SEALS:** NBR (NITRILE)

| NOMINAL SIZE |      |      | PART NUMBER        | OPENING PRESSURE |        | THREADS |        | DIMENSIONS mm |     |    |    |     |    |    |
|--------------|------|------|--------------------|------------------|--------|---------|--------|---------------|-----|----|----|-----|----|----|
| DN           | inch | Dash |                    | 1 -> 2           | 2 -> 1 | INLET   | OUTLET | A             | B   | C  | D  | E   | F  | G  |
| 10           | 3/8" | -6   | Q2D41108M1N-06-06A | 500 kPa          | 35 kPa | 3/8"    | 3/8"   | 104.9         | Ø30 | 27 | 27 | 6   | 22 | 27 |
| 10           | 3/8" | -6   | Q2D41108M1R-06-06A | 800 kPa          | 35 kPa | 3/8"    | 3/8"   | 104.9         | Ø30 | 27 | 27 | 6   | 22 | 27 |
| 12.5         | 1/2" | -8   | Q2D41108M1N-08-08A | 500 kPa          | 35 kPa | 1/2"    | 1/2"   | 139.8         | Ø38 | 34 | 34 | 6.3 | 27 | 34 |
| 12.5         | 1/2" | -8   | Q2D41108M1R-08-08A | 800 kPa          | 35 kPa | 1/2"    | 1/2"   | 139.8         | Ø38 | 34 | 34 | 6.3 | 27 | 34 |
| 19           | 3/4" | -12  | Q2D41108M1N-12-12A | 500 kPa          | 35 kPa | 3/4"    | 3/4"   | 173.8         | Ø45 | 41 | 41 | 8.5 | 32 | 41 |
| 19           | 3/4" | -12  | Q2D41108M1R-12-12A | 800 kPa          | 35 kPa | 3/4"    | 3/4"   | 173.8         | Ø45 | 41 | 41 | 8.5 | 32 | 41 |

## Bespoke solutions to unique problems

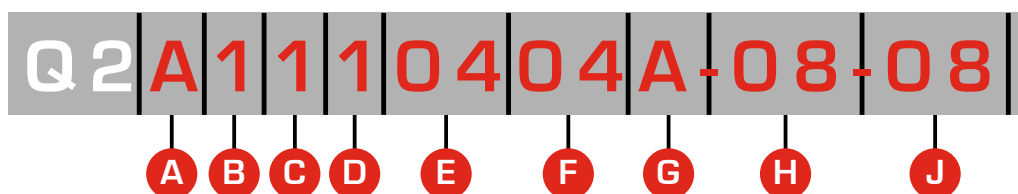
*Hydraulics applications are so many and varied that it would be pretty much impossible to develop industrialised products for every possible situation. However, at Manuli Hydraulics we are fully prepared to meet any application challenge that our OEM partners can present us with, which is why we offer our **Bespoke Solutions Program (BSP)**.*



The BSP is just one way that Manuli Hydraulics provides an added value service to our OEM partners. Manuli Hydraulics is structured in such a way that we can tailor solutions to the specific requirements of our customers in a way that our competitors never could. We are small enough to be agile and responsive, yet large enough to have the design and manufacturing capabilities to produce bespoke products at a reasonable price. Used by some of the largest and most respected OEMs around the world, the Manuli Bespoke Solutions Program means that you never have to compromise on your hydraulic system design again.

## How to specify your bespoke check valve

Specifying the required properties of your check valve is simply a matter of constructing an appropriate part number. The following pages explain how to construct the part number using the Manuli Hydraulics part numbering system.



**A - CHECK VALVE TYPE** - See Table 1

**B - INPUT / OUTPUT CONFIGURATION** - See Table 2

**C - VALVE MATERIAL** - See Table 3

**D - SEAL MATERIAL** - See Table 4

**E - INPUT TERMINATION END TYPE** - See Table 5

**F - OUTPUT TERMINATION END TYPE** - See Table 5

**G - CRACK PRESSURE** - See Table 6

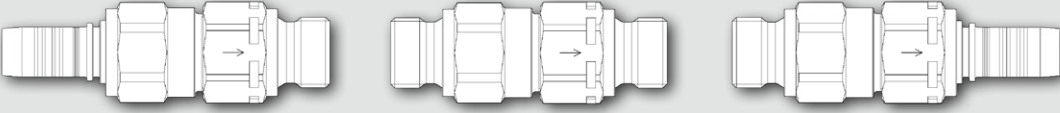
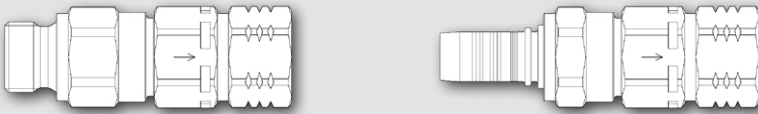
**H - INPUT TUBE SIZE** - See Table 7

**J - OUTPUT TUBE SIZE** - See Table 7

**1 - CHECK VALVE TYPE**

| Digit | Check Valve Type |
|-------|------------------|
| A     | Standard         |
| B     | Compact          |
| C     | Calibrated       |
| D     | Bi-directional   |

**2 - INLET / OUTLET CONFIGURATION**

| Digit | INLET                                                                                | OUTLET       |
|-------|--------------------------------------------------------------------------------------|--------------|
|       | Male / Tail*                                                                         | Male / Tail* |
| 1     |    |              |
| 2     | Female                                                                               | Female       |
|       |     |              |
| 3     | Male / Tail*                                                                         | Female       |
|       |  |              |
| 4     | Female                                                                               | Male / Tail* |
|       |  |              |

\* Use Table 5a for male termination ends, and Table 5b for DHI tails

**3 - VALVE MATERIAL**

| Digit | Material  |
|-------|-----------|
| 1     | Steel     |
| 2     | AISI 316  |
| 3     | AISI 303  |
| 4     | Brass     |
| 5     | Aluminium |

**4 - SEAL MATERIAL**

| Digit | INLET                 |
|-------|-----------------------|
| 0     | None                  |
| 1     | NBR (Nitrile)         |
| 2     | HNBR                  |
| 3     | FKM (Viton, FPM)      |
| 4     | CR (Neoprene)         |
| 5     | EPDM                  |
| 6     | FFPM (Kalrez)         |
| 7     | PTFE                  |
| 8     | VMQ (Silicone Rubber) |
| 9     | AU (Polyurethane)     |

## 5 - INLET / OUTLET TERMINATION END TYPE

| Digit | Male Termination End                                                                                                                                                                            | Female Termination End                                                   |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 01    | BSP Male DIN 3852-11 - ISO 1179-2 Heavy Duty "form E"                                                                                                                                           | Fixed Female GAS JIS B 2351 "type O"                                     |
| 02    | BSP Male Tapered Thread Long                                                                                                                                                                    | BSP Female Tapered                                                       |
| 04    | BSP Male Bulkhead                                                                                                                                                                               | BSP Fixed Female DIN 3852-2 "form X" / ISO 1179-1                        |
| 05    | BSP Male 60° cone seat BS5200 / ISO 8434-6                                                                                                                                                      | BSP Female 60° cone BS5200 / ISO 8434-6                                  |
| 08    | Metric Bolt DIN 7643                                                                                                                                                                            | BSP O-Ring Female 60° cone BS5200 / ISO 8434-6                           |
| 11    | Metric male 24° cone seat light type DIN 3861 / ISO 8434-1                                                                                                                                      | -                                                                        |
| 12    | Metric male 24° cone seat heavy type DIN 3861 / ISO 8434-1                                                                                                                                      | Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-1 Long Drop |
| 14    | Metric Male DIN 3852-11 "form E" b/ ISO 9974-2                                                                                                                                                  | Metric Fixed Female DIN 3852-1 "form X" and "form Y"                     |
| 19    | Metric Male ISO 6149-2 / DIN 3852-3 "form F" (only for Fittings and Q.Safe)<br>Metric Male with Retaining Ring (Adjustable + Non-Adjustable Heavy) ISO 9974 port compatible (only for Adaptors) | Metric Fixed Female ISO 6149-1                                           |
| 23    | JIC Bulkhead male 37° cone ISO 8434-2 / SAE J514                                                                                                                                                | -                                                                        |
| 24    | ORFS male ISO 8434-3 / SAE J1453                                                                                                                                                                | ORFS female ISO 8434-3 / SAE J1453                                       |
| 25    | JIC male (37° cone) ISO 8434-2 / SAE J514                                                                                                                                                       | JIC female (37° cone seat) ISO 8434-2 / SAE J514                         |
| 27    | ORFS Bulkhead male ISO 8434-3 / SAE J1453                                                                                                                                                       | JIC female double hexagon 37° cone seat                                  |
| 28    | NPTF Male 60° cone seat SAE J476a                                                                                                                                                               | NPSM Swivel Female 60° cone SAE J514                                     |
| 30    | Male O'Ring Boss type SAE J1926-3                                                                                                                                                               | Female Port SAE J1926-1                                                  |
| 32    | Male O'Ring Boss (Adjustable + Non-Adjustable Heavy) SAE J1926-2                                                                                                                                | -                                                                        |
| 34    | API Male                                                                                                                                                                                        | NPTF Fixed Female SAE J476a                                              |
| 37    | Metric male 60° cone superlight DIN 3863 Bulkhead                                                                                                                                               | Flange ISO/SAE 62 Plus / Flange (A/C)                                    |
| 77    | DIN Bulkhead Male 24° cone Light type ISO 8434-1                                                                                                                                                | ASME B16.5 Ring Joint Type Flange                                        |
| 82    | French GAZ Bulkhead metric male 24° cone seat                                                                                                                                                   | Staple Lock Swivel Female                                                |
| 87    | DIN Bulkhead Male 24° cone Heavy type ISO 8434-1                                                                                                                                                | ASME B16.5 FLANGE / SDB compressor (A/C)                                 |

Table 5a - Termination End Options

| Digit | DHI Tail Type                  |
|-------|--------------------------------|
| M1    | Multifit tail, straight        |
| M4    | Multifit tail, 45° swept       |
| M9    | Multifit Plus tail, 90° swept  |
| I1    | Interlock Plus tail, straight  |
| I4    | Interlock Plus tail, 45° swept |
| I9    | Interlock Plus tail, 90° swept |
| S1    | Spiralfit tail, straight       |
| S4    | Spiralfit tail, 45° swept      |
| S9    | Spiralfit tail, 90° swept      |

Table 5b - DHI Tail Options

## 6 - CRACK PRESSURE

| Digit | Pressure (kPa) | Pressure (psi) |
|-------|----------------|----------------|
| A     | 35             | 5.1            |
| B     | 10             | 1.5            |
| C     | 20             | 2.9            |
| D     | 50             | 7.3            |
| E     | 100            | 14.5           |
| F     | 150            | 21.8           |
| G     | 200            | 29.0           |
| H     | 250            | 36.3           |
| J     | 300            | 43.5           |
| K     | 350            | 50.8           |
| L     | 400            | 58.0           |
| M     | 450            | 65.3           |
| N     | 500            | 72.5           |
| P     | 600            | 87.0           |
| Q     | 700            | 101.5          |
| R     | 800            | 116.0          |
| S     | 900            | 130.5          |
| T     | 1000           | 145.0          |
| X     | Without Spring |                |

## 7 - INLET / OUTLET TUBE SIZE

| Digit | DN | Inch   | Dash |
|-------|----|--------|------|
| 04    | 6  | 1/4"   | -04  |
| 06    | 10 | 3/8"   | -06  |
| 08    | 12 | 1/2"   | -08  |
| 10    | 16 | 5/8"   | -10  |
| 12    | 19 | 3/4"   | -12  |
| 16    | 25 | 1"     | -16  |
| 20    | 31 | 1-1/4" | -20  |
| 22    | 35 | 1-3/8" | -22  |
| 24    | 38 | 1-1/2" | -24  |
| 32    | 51 | 2"     | -32  |
| 36    | 57 | 2-1/4" | -36  |