

POPPET TYPE - QCA SERIES

BSP



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FOR 3D SECTION

TECHNICAL FEATURES AND OPTIONS



**Locking Mechanism**  
Locking Ball System



**Flow Rate**  
Up to 757 l / min



**Material**  
Carbon Steel  
Stainless Steel  
Brass



**Working Temperature**  
-20 °C / +90 °C



**Interchange**  
ISO 7241-A



**How to Connect**  
Push



**Operating Pressure**  
Up to 250 Bar



**Available Threads**  
BSP - NPT - Metric - SAE



**Under Residual Pressure**  
Connetion: not Allowed  
Disconnection: not Allowed



**Body Sizes**  
ISO 6.3 - 50



**Sealing Description**  
NBR - FKM



**Valve Type**  
Popet

MAIN APPLICATIONS



OIL & GAS



AGRICULTURE



HYDRAULIC  
INDUSTRY



EARTH MOVING



HYDRAULIC  
EQUIPMENT



CONCRETE  
VEHICLES

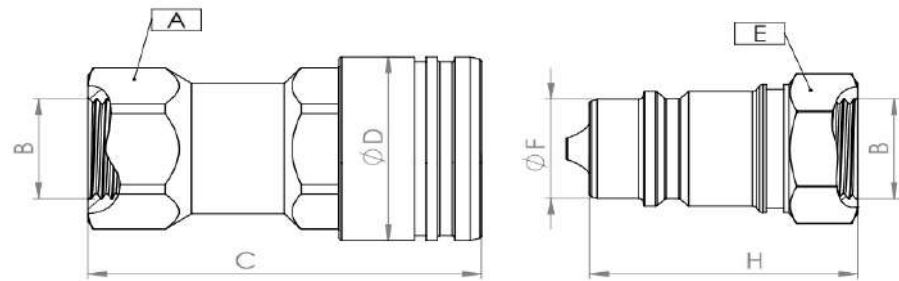


VEHICLES



CHEMICAL  
INDUSTRY

TECHNICAL DRAWING



| BODY SIZE | DESCRIPTION  | COUPLING GENDER | Hex |    |      | THREAD SIZE(B) | DIAMETER |       |      | LENGTH |       |      | WEIGHT |       |
|-----------|--------------|-----------------|-----|----|------|----------------|----------|-------|------|--------|-------|------|--------|-------|
|           |              |                 |     | mm | inch |                |          | mm    | inch |        | mm    | inch | kg     | lbs   |
| 6.3       | QCA-6A-G14   | FEMALE          | A   | 19 | 0.75 | 1/4            | D        | 26    | 1.02 | C      | 50    | 1.97 | 0.1    | 0.22  |
|           | QCA-6B-G14   | MALE            | E   | 19 | 0.75 | 1/4            | F        | 11.8  | 0.46 | H      | 35.5  | 1.4  | 0.04   | 0.09  |
| 10        | QCA-10A-G38  | FEMALE          | A   | 24 | 0.94 | 3/8"           | D        | 32    | 1.25 | C      | 58    | 2.28 | 0.16   | 0.352 |
|           | QCA-10B-G38  | MALE            | E   | 22 | 0.86 | 3/8"           | F        | 17.23 | 0.67 | H      | 40    | 1.57 | 0.06   | 0.132 |
| 12.5      | QCA-12A-G12  | FEMALE          | A   | 30 | 1.18 | 1/2"           | D        | 38    | 1.49 | C      | 69    | 2.71 | 0.27   | 0.594 |
|           | QCA-12B-G12  | MALE            | E   | 27 | 1.06 | 1/2"           | F        | 20.48 | 0.80 | H      | 47    | 1.85 | 0.09   | 0.198 |
| 19        | QCA-20A-G34  | FEMALE          | A   | 38 | 1.49 | 3/4"           | D        | 46.1  | 1.81 | C      | 83    | 3.26 | 0.5    | 1.1   |
|           | QCA-20B-G34  | MALE            | E   | 36 | 1.41 | 3/4"           | F        | 29    | 1.14 | H      | 56    | 2.20 | 0.21   | 0.462 |
| 25        | QCA-25A-G1   | FEMALE          | A   | 46 | 1.81 | 1"             | D        | 54    | 2.12 | C      | 99.2  | 3.90 | 0.75   | 1.65  |
|           | QCA-25B-G1   | MALE            | E   | 41 | 1.61 | 1"             | F        | 34.21 | 1.34 | H      | 66    | 2.59 | 0.3    | 0.66  |
| 31.5      | QCA-31A-G114 | FEMALE          | A   | 55 | 2.16 | 1 1/4 "        | D        | 68    | 2.67 | C      | 117.2 | 4.61 | 1.31   | 2.882 |
|           | QCA-31B-G114 | MALE            | E   | 50 | 1.96 | 1 1/4 "        | F        | 44.9  | 1.77 | H      | 75    | 2.95 | 0.51   | 1.122 |
| 40        | QCA-40A-G112 | FEMALE          | A   | 70 | 2.75 | 1 1/2 "        | D        | 83    | 3.26 | C      | 134.2 | 5.28 | 2.66   | 5.852 |
|           | QCA-40B-G112 | MALE            | E   | 60 | 2.36 | 1 1/2 "        | F        | 54.93 | 2.16 | H      | 84    | 3.30 | 0.96   | 2.112 |
| 50        | QCA-50A-G2   | FEMALE          | A   | 80 | 3.14 | 2"             | D        | 99    | 3.89 | C      | 160.2 | 6.30 | 3.89   | 8.558 |
|           | QCA-50B-G2   | MALE            | E   | 75 | 2.95 | 2"             | F        | 65    | 2.55 | H      | 97    | 3.81 | 1.48   | 3.256 |

ISO-1179-1

| BODY SIZE | WORKING PRESSURE |      |        |      |      |      | BURST PRESSURE |       |        |       |      |       |
|-----------|------------------|------|--------|------|------|------|----------------|-------|--------|-------|------|-------|
|           | COUPLE           |      | FEMALE |      | MALE |      | COUPLE         |       | FEMALE |       | MALE |       |
|           | MPa              | PSI  | MPa    | PSI  | MPa  | PSI  | MPa            | PSI   | MPa    | PSI   | MPa  | PSI   |
| 6         | 31,5             | 4567 | 31,5   | 4567 | 31,5 | 4567 | 126            | 18270 | 126    | 18270 | 126  | 18270 |
| 10        | 31,5             | 4567 | 31,5   | 4567 | 31,5 | 4567 | 126            | 18270 | 126    | 18270 | 126  | 18270 |
| 12,5      | 25               | 3625 | 25     | 3625 | 25   | 3625 | 100            | 14500 | 100    | 14500 | 100  | 14500 |
| 19        | 25               | 3625 | 25     | 3625 | 25   | 3625 | 100            | 14500 | 100    | 14500 | 100  | 14500 |
| 25        | 20               | 2900 | 20     | 2900 | 20   | 2900 | 80             | 11600 | 80     | 11600 | 80   | 11600 |
| 31,5      | 20               | 2900 | 20     | 2900 | 20   | 2900 | 80             | 11600 | 80     | 11600 | 80   | 11600 |
| 40        | 16               | 2320 | 16     | 2320 | 16   | 2320 | 64             | 9280  | 64     | 9280  | 64   | 9280  |
| 50        | 10               | 1450 | 10     | 1450 | 10   | 1450 | 40             | 5800  | 40     | 5800  | 40   | 5800  |

| BODY SIZE | RATED FLOW      |       |        | FLUID LOSS PER DISCONNECT | CONNECTING FORCE |       | DISCONNECTING FORCE |       |
|-----------|-----------------|-------|--------|---------------------------|------------------|-------|---------------------|-------|
|           | PRES.DROP (kPa) | L/MIN | GPM    |                           | N                | lbf   | N                   | lbf   |
| 6         | 130             | 3     | 0,66   | 1                         | 50               | 11,2  | 20                  | 4,5   |
| 10        | 180             | 23    | 5,06   | 2                         | 70               | 15    | 30                  | 6,75  |
| 12,5      | 200             | 45    | 9,91   | 2,5                       | 90               | 20,22 | 45                  | 10,11 |
| 19        | 200             | 106   | 23,34  | 9                         | 140              | 31,46 | 50                  | 11,23 |
| 25        | 250             | 189   | 41,62  | 25                        | 190              | 42,69 | 55                  | 12,35 |
| 31,5      | 200             | 288   | 63,43  | 60                        | 230              | 51,68 | 65                  | 14,6  |
| 40        | 200             | 379   | 83,48  | 90                        | 250              | 56,17 | 70                  | 15,73 |
| 50        | 200             | 757   | 166,74 | 150                       | 270              | 60,67 | 80                  | 17,97 |

INFORMATION

- Do not connect or disconnect under residual pressure.
- Top quality elastomer seals provide maximum sealing.
- The external sealing ring ensures a solid connection and prevents disconnection due to vibration.
- The design prevents pressure drops and turbulences.
- Durable, safe, compact and easy to use design.
- Please clean the mating surfaces thoroughly before connecting, in order to prevent contaminants to enter into the system.
- Please make sure that the male and female parts are aligned properly to achive full connection.

WARNING

- Connection and disconnection under dynamic pressure is not allowed.
- Connection and disconnection is not allowed when the temperature of the circulating fluid is above 80°C / 176°F.
- Make sure the system pressure is below the maximum working pressure.
- Please ensure that the OLEOCON product you have chosen is compatible with the temperature , material and pressure requirements of your system.
- Please contact OLEOCON technical support for any further questions.