

|                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |  |  |
| ISO 16028 and HTMA (for size 3/8")                                              | Steel                                                                             | From 1/4" to 1"                                                                   | 31.5 MPa max.                                                                     | -20°C + 100°C                                                                     | NBR (Nitrile)                                                                     | Push-to-Connect                                                                   | Flush-faced poppet                                                                | -                                                                                   | Ball locking mechanism with security                                                | BSPP, metric                                                                        |

## Main characteristics

- Meets the requirements of **ISO 16028**
- Minimal fluid loss during disconnection
- Minimal inclusion of air or external agents during connection
- Safety system protecting against accidental disconnection
- Modular construction: broad choice of end configurations
- Minimal pressure drop

## Applications

- Hydraulic applications: excavators, rock hammers, drilling rigs
- Road service vehicles, snow ploughs...
- Difficult working conditions: pressure impulses



## Technical features

Zinc plated steel with a yellow chromate finish

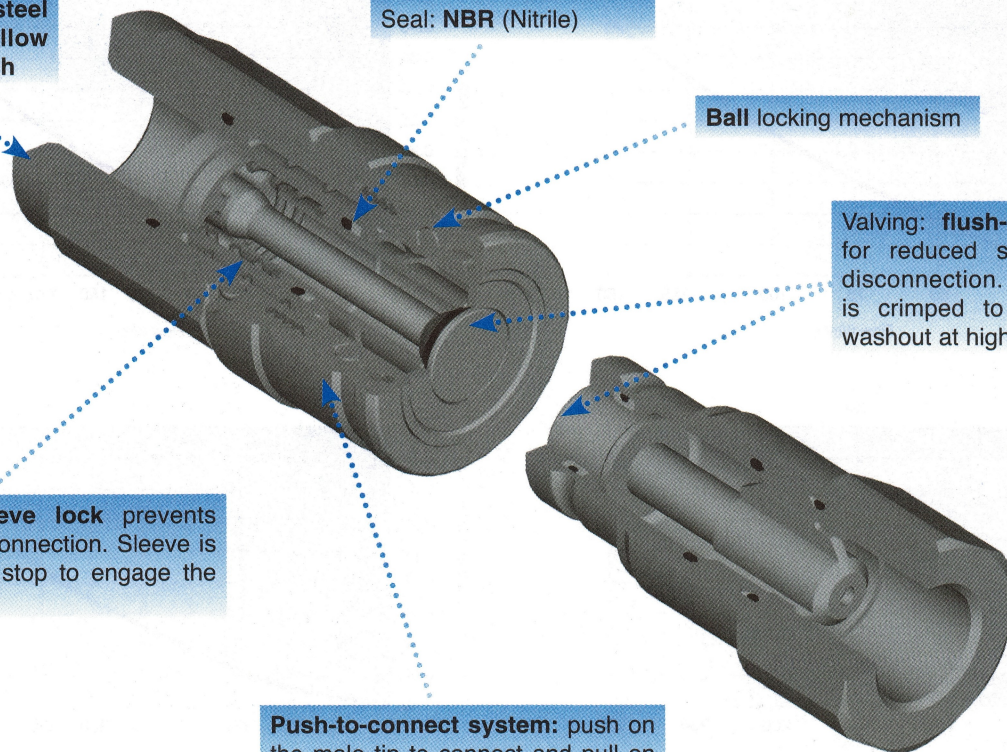
Seal: **NBR** (Nitrile)

Ball locking mechanism

Valving: **flush-faced poppet** for reduced spillage during disconnection. The seal is crimped to prevent seal washout at high flow rates

A **safety sleeve lock** prevents accidental disconnection. Sleeve is rotated to the stop to engage the lock

**Push-to-connect system:** push on the male tip to connect and pull on the sleeve to disconnect



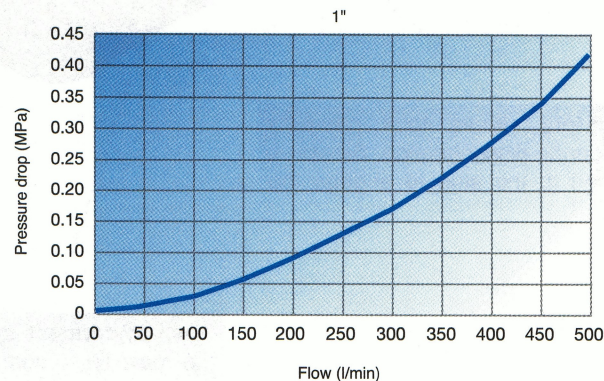
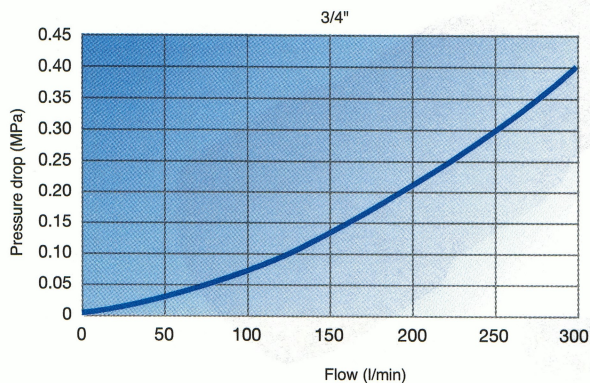
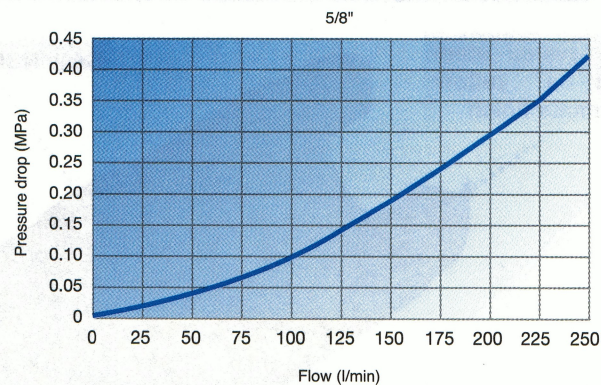
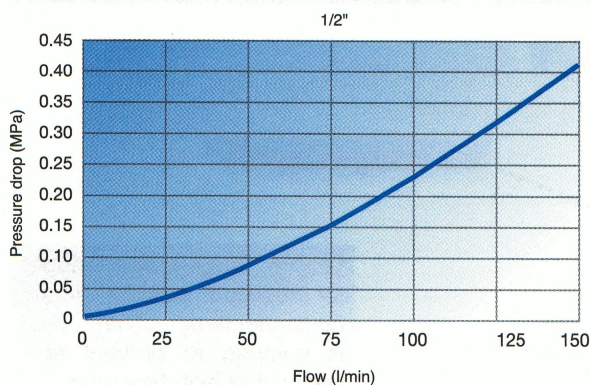
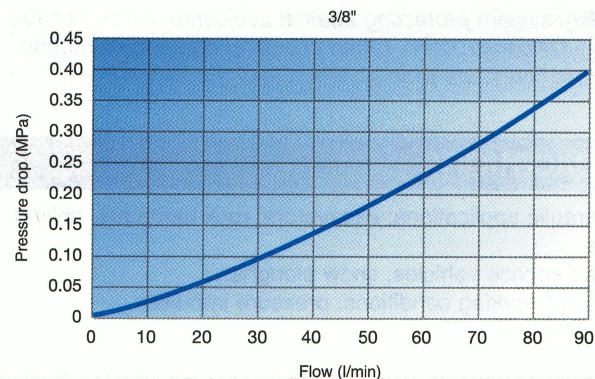
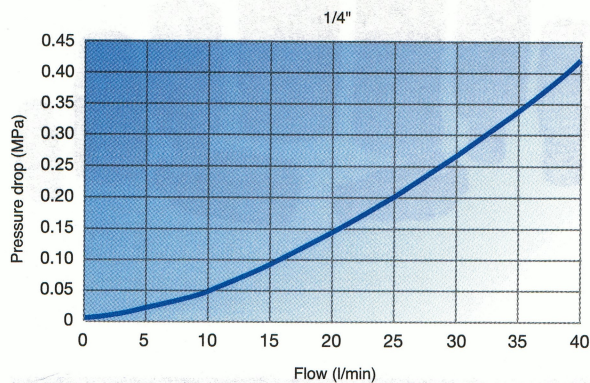


## Technical performance data

| Body size<br>inch | Temperature<br>range | Max. operating pressure<br>MPa | Min. burst pressure<br>MPa |
|-------------------|----------------------|--------------------------------|----------------------------|
| 1/4"              | -20°C + 100°C        | 31.5                           | 126                        |
| 3/8"              |                      | 25.0                           | 100                        |
| 1/2"              |                      | 25.0                           | 100                        |
| 5/8"              |                      | 25.0                           | 100                        |
| 3/4"              |                      | 25.0                           | 100                        |
| 1"                |                      | 20.0                           | 80                         |

## Pressure drop

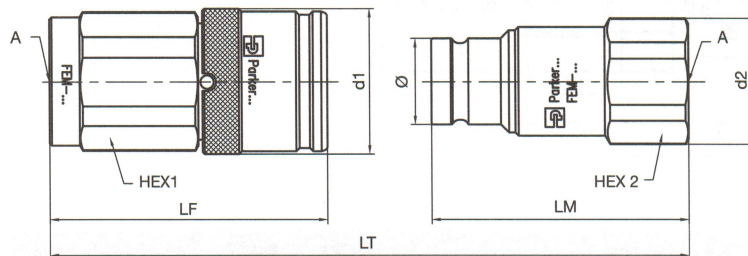
Tests with oil viscosity 43 cSt at 38°C.





## Dimensions and part numbers

### Female BSPP thread - DIN 3852



| Body size<br>inch | Thread A<br>inch | d1<br>mm | Hex 1<br>mm | LF<br>mm | d2<br>mm | Hex 2<br>mm | LM<br>mm | LT connected<br>mm | Ø<br>mm | Part number<br>female body | Weight<br>gr./piece | Part number<br>male tip | Weight<br>gr./piece |
|-------------------|------------------|----------|-------------|----------|----------|-------------|----------|--------------------|---------|----------------------------|---------------------|-------------------------|---------------------|
|-------------------|------------------|----------|-------------|----------|----------|-------------|----------|--------------------|---------|----------------------------|---------------------|-------------------------|---------------------|

#### Female BSPP thread

|      |         |      |    |       |      |    |      |       |      |               |      |               |     |
|------|---------|------|----|-------|------|----|------|-------|------|---------------|------|---------------|-----|
| 1/4" | 1/4     | 29.5 | 27 | 53.1  | 23.8 | 22 | 47.9 | 90.2  | 16.1 | FEM-251-4FB   | 193  | FEM-252-4FB   | 86  |
| 3/8" | 3/8     | 33.5 | 30 | 64.8  | 29.0 | 27 | 60.0 | 108.8 | 19.7 | FEM-371-6FB   | 286  | FEM-372-6FB   | 146 |
|      | 1/2     | 33.5 | 30 | 69.8  | 29.0 | 27 | 62.5 | 116.3 | 19.7 | FEM-371-8FB   | 286  | FEM-372-8FB   | 146 |
| 1/2" | 1/2     | 39.5 | 36 | 76.8  | 35.0 | 32 | 68.0 | 127.6 | 24.5 | FEM-501-8FB   | 467  | FEM-502-8FB   | 235 |
|      | 3/4     | 39.5 | 36 | 83.8  | 40.0 | 36 | 70.5 | 137.1 | 24.5 | FEM-501-12FB  | 477  | FEM-502-12FB  | 273 |
| 5/8" | 3/4     | 43.5 | 41 | 84.0  | 38.5 | 36 | 73.0 | 139.5 | 27.0 | FEM-621-12FB  | 640  | FEM-622-12FB  | 299 |
| 3/4" | 1       | 49.5 | 46 | 98.8  | 49.8 | 46 | 83.7 | 160.7 | 30.0 | FEM-751-16FB  | 983  | FEM-752-16FB  | 475 |
| 1"   | 1 - 1/4 | 56.5 | 55 | 105.8 | 59.8 | 55 | 90.0 | 172.8 | 36.0 | FEM-1001-20FB | 1365 | FEM-1002-20FB | 706 |