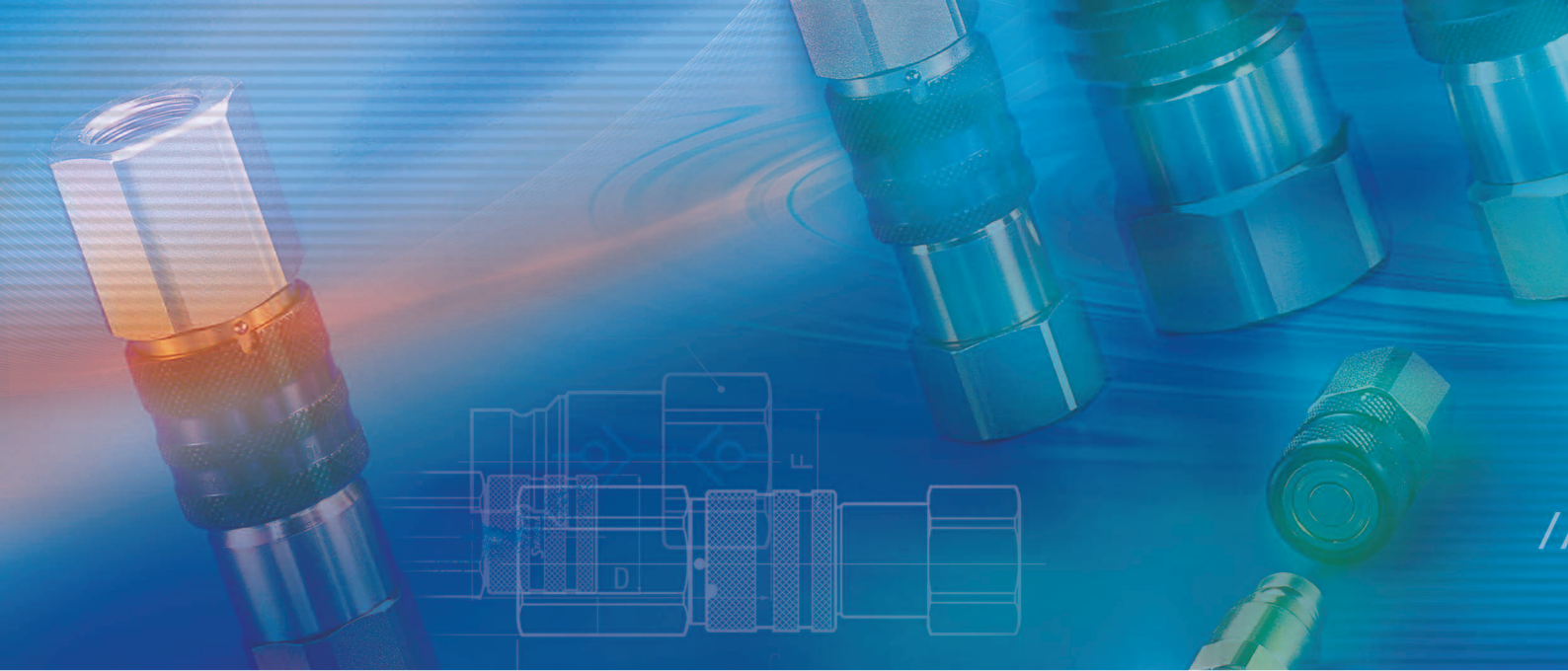


MPX Hydraulics





The antipollution technology in the service...

Applications

For medium pressure hydraulic circuits.

Quick connection ensuring:

- no contamination of hydraulic circuits and no pollution of the environment
- high performance
- safety

For many hydraulic applications including:

- connections to machinery
- injection moulding machinery
- core pulling circuits

A complete and wide range

The MPX is available:

- in **6 diameters**, from 6 to 25 mm
- and
- in **3 types of thread**: GAZ, NPT and UNF





... of your medium pressure hydraulic circuits

Automatic connection

Automatic connection is achieved simply by pushing the plug into the socket.

Non-spill, flush-face

The MPX avoids the introduction of air into the hydraulic circuits whilst assuring no pollution of the working area. Prior to connection the flush faces may be easily wiped to prevent contamination of the circuits.

Safety locking feature

A safety pin prevents accidental pulling back of the sleeve.

To activate this safety feature a simple rotation of the sleeve after connection is required.

Optimal flow

The MPX coupling ensures maximum efficiency of machinery and equipment thanks to excellent flow characteristics.



High tolerance to temperature and hydraulic fluid compatibility

The MPX couplings are equipped with Fluorocarbon (FPM) seals as standard giving:

- compatibility with the majority of hydraulic fluids
- wide range of operating temperatures






Complies to hydraulic standards

The MPX range is designed to comply with the standard **ISO 16 028**.

In addition the MPX 10 complies to the standard **ANSI / (NFPA) T3.20.15** required by the **HTMA** (Hydraulic Tool Manufacturers Association).

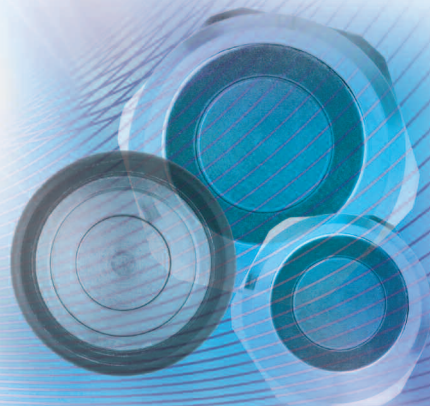


Technical data

| | MPX 06 | MPX 10 | MPX 12 | MPX 16 | MPX 19 | MPX 25 |
|--|----------------------------|---|---|---|---|---|
| Nominal bore (mm) | 6 | 10 | 12 | 16 | 19 | 25 |
| Maximum working pressure (bar) | 315 | 250 | 250 | 250 | 250 | 200 |
| Maximum working temperature (°C) - with Fluorocarbon seal - with Nitrile seal | -10 to +180 -15 to +100 | -10 to +180 -15 to +100 | -10 to +180 -15 to +100 | -10 to +180 -15 to +100 | -10 to +180 - | -10 to +180 - |
| Shut-off | double |  |  |  |  |  |

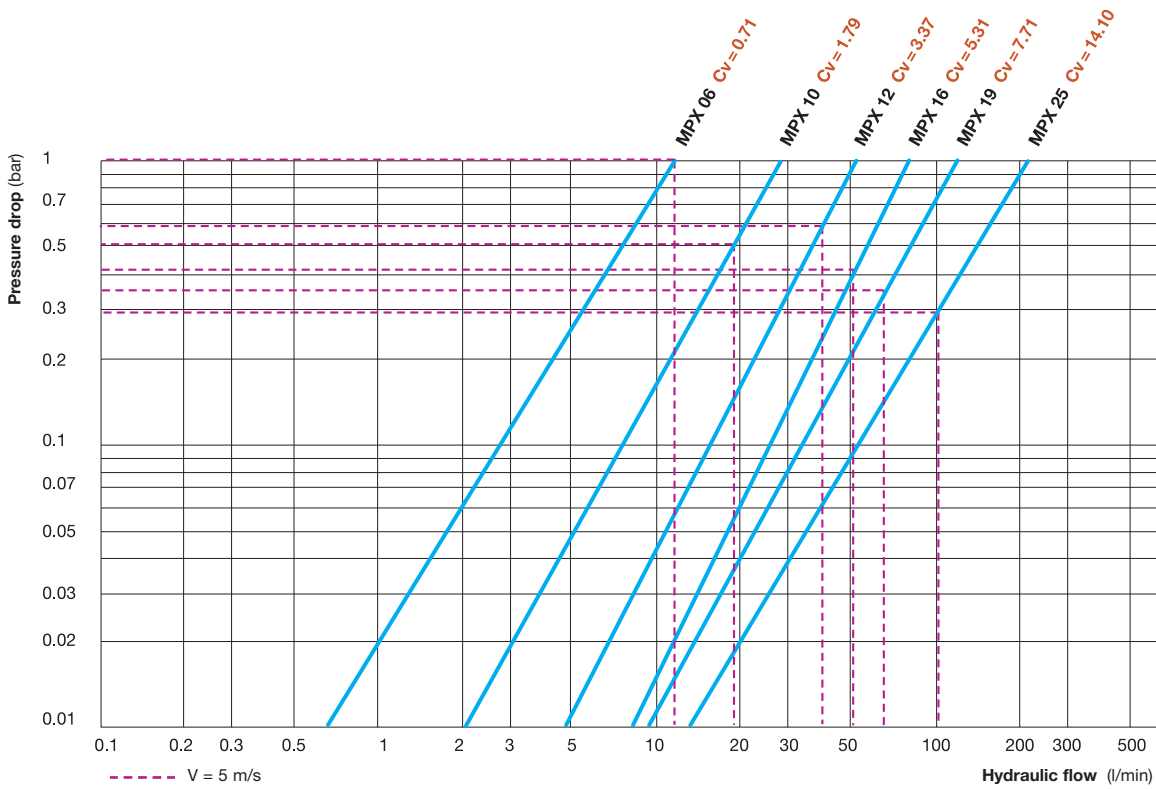
Construction

- High tensile steel with anti-corrosion treatment
- Fluorocarbon seal (FPM) in standard
- Nitrile seal also available for some part-numbers (see pages 6 and 7)
- Sockets and plugs protective dust caps in black PVC (to be separately ordered – see page 7)





Hydraulic flow rate / pressure drop charts



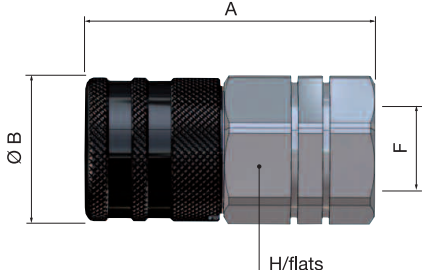
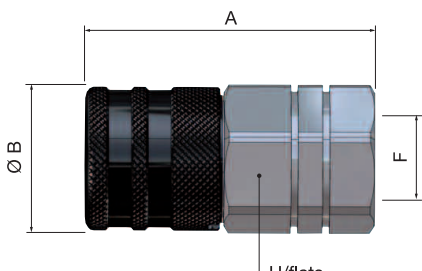
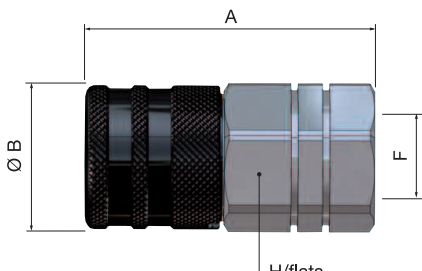
| Flow (l/min) for a speed of 5 m/s | | | | | |
|-----------------------------------|--------|--------|--------|--------|--------|
| MPX 06 | MPX 10 | MPX 12 | MPX 16 | MPX 19 | MPX 25 |
| 11.6 | 19 | 40 | 53 | 68 | 104 |

Test conditions:

- Oil ISO VG32
- Temperature: 40 °C
- Viscosity: 28.8 – 35.2 cSt
- Direction of flow: Socket → Plug

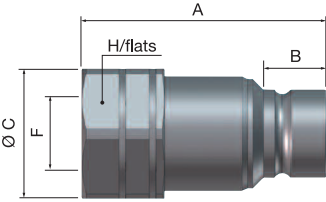
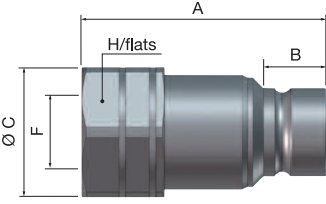
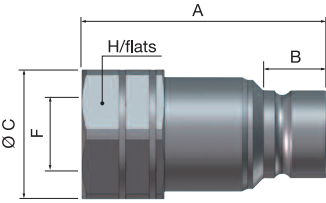
Part-numbers

Sockets

| Designations | Models | Threads F | Dimensions (mm) | | | Part-numbers |
|---|---------------|---------------|-----------------|-----|-----------------------|------------------------|
| | | | A | Ø B | H/flats | |
| 1. Socket GAZ female thread  | MPX 06 | G 1/4 | 53 | 29 | 27 | MPX 06.1101/JV* |
| | MPX 10 | G 3/8 | 65 | 32 | 30 | MPX 10.1102/JV* |
| | | G 1/2 | 70 | 32 | 30 | MPX 10.1103/JV* |
| | MPX 12 | G 1/2 | 77 | 40 | 36 | MPX 12.1103/JV |
| | | G 3/4 | 84 | 40 | 36 | MPX 12.1104/JV* |
| | MPX 16 | G 3/4 | 84 | 45 | 41 | MPX 16.1104/JV* |
| | MPX 19 | G 1 | 99 | 50 | 46 | MPX 19.1105/JV |
| MPX 25 | G 1 1/4 | 106 | 60 | 55 | MPX 25.1106/JV | |
| 2. Socket NPT female thread  | MPX 06 | NPT 1/4 | 53 | 29 | 27 | MPX 06.1201/JV |
| | MPX 10 | NPT 3/8 | 65 | 32 | 30 | MPX 10.1202/JV |
| | | NPT 1/2 | 70 | 32 | 30 | MPX 10.1203/JV |
| | MPX 12 | NPT 1/2 | 77 | 40 | 36 | MPX 12.1203/JV |
| | | NPT 3/4 | 84 | 40 | 36 | MPX 12.1204/JV |
| | MPX 16 | NPT 3/4 | 84 | 45 | 41 | MPX 16.1204/JV |
| | MPX 19 | NPT 1 | 99 | 50 | 46 | MPX 19.1205/JV |
| MPX 25 | NPT 1 1/4 | 106 | 60 | 55 | MPX 25.1206/JV | |
| 3. Socket UNF thread  | MPX 06 | UNF 9/16-18 | 56 | 29 | 27 | MPX 06.1314/JV |
| | MPX 10 | UNF 9/16-18 | 65 | 32 | 30 | MPX 10.1314/JV |
| | | UNF 3/4-16 | 70 | 32 | 30 | MPX 10.1319/JV |
| | MPX 12 | UNF 3/4-16 | 77 | 40 | 36 | MPX 12.1319/JV |
| | | UNF 1 1/16-12 | 84 | 40 | 36 | MPX 12.1327/JV |
| | MPX 16 | UNF 1 1/16-12 | 84 | 45 | 41 | MPX 16.1327/JV |
| | MPX 19 | UNF 1 5/16-12 | 99 | 50 | 46 | MPX 19.1333/JV |
| MPX 25 | UNF 5/8-12 | 106 | 60 | 55 | MPX 25.1341/JV | |


* Part-numbers also available with Nitrile seal (NBR): remove the /JV code at the end of the part-number

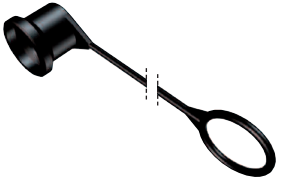
Plugs

| Designations | Models | Threads F | Dimensions (mm) | | | | Part-numbers |
|--|------------|---------------|-----------------|------|------|----------------|-----------------|
| | | | A | B | Ø C | H/flats | |
| 1. Plug GAZ female thread  | MPX 06 | G 1/4 | 48 | 11 | 24 | 22 | MPX 06.7101/JV* |
| | MPX 10 | G 3/8 | 60 | 16 | 29 | 27 | MPX 10.7102/JV* |
| | | G 1/2 | 62,5 | 16 | 29 | 27 | MPX 10.7103/JV* |
| | MPX 12 | G 1/2 | 68 | 17,5 | 40 | 36 | MPX 12.7103/JV |
| | | G 3/4 | 70,5 | 17,5 | 40 | 36 | MPX 12.7104/JV* |
| | MPX 16 | G 3/4 | 73 | 17,5 | 38,5 | 36 | MPX 16.7104/JV* |
| | MPX 19 | G 1 | 84 | 22,5 | 50 | 46 | MPX 19.7105/JV |
| MPX 25 | G 1 1/4 | 90 | 23 | 60 | 55 | MPX 25.7106/JV | |
| 2. Plug NPT female thread  | MPX 06 | NPT 1/4 | 48 | 11 | 24 | 22 | MPX 06.7201/JV |
| | MPX 10 | NPT 3/8 | 60 | 16 | 29 | 27 | MPX 10.7202/JV |
| | | NPT 1/2 | 62,5 | 16 | 29 | 27 | MPX 10.7203/JV |
| | MPX 12 | NPT 1/2 | 68 | 17,5 | 40 | 36 | MPX 12.7203/JV |
| | | NPT 3/4 | 70,5 | 17,5 | 40 | 36 | MPX 12.7204/JV |
| | MPX 16 | NPT 3/4 | 73 | 17,5 | 38,5 | 36 | MPX 16.7204/JV |
| | MPX 19 | NPT 1 | 84 | 22,5 | 50 | 46 | MPX 19.7205/JV |
| MPX 25 | NPT 1 1/4 | 90 | 23 | 60 | 55 | MPX 25.7206/JV | |
| 3. Plug UNF thread  | MPX 06 | UNF 9/16-18 | 51 | 11 | 24 | 22 | MPX 06.7314/JV |
| | MPX 10 | UNF 9/16-18 | 60 | 16 | 29 | 27 | MPX 10.7314/JV |
| | | UNF 3/4-16 | 62,5 | 16 | 29 | 27 | MPX 10.7319/JV |
| | MPX 12 | UNF 3/4-16 | 68 | 17,5 | 40 | 36 | MPX 12.7319/JV |
| | | UNF 1 1/16-12 | 72,5 | 17,5 | 40 | 36 | MPX 12.7327/JV |
| | MPX 16 | UNF 1 1/16-12 | 73 | 17,5 | 38,5 | 36 | MPX 16.7327/JV |
| | MPX 19 | UNF 1 5/16-12 | 84 | 22,5 | 50 | 46 | MPX 19.7333/JV |
| MPX 25 | UNF 5/8-12 | 90 | 23 | 60 | 55 | MPX 25.7341/JV | |

* Part-numbers also available with Nitrile seal (NBR): remove the /JV code at the end of the part-number

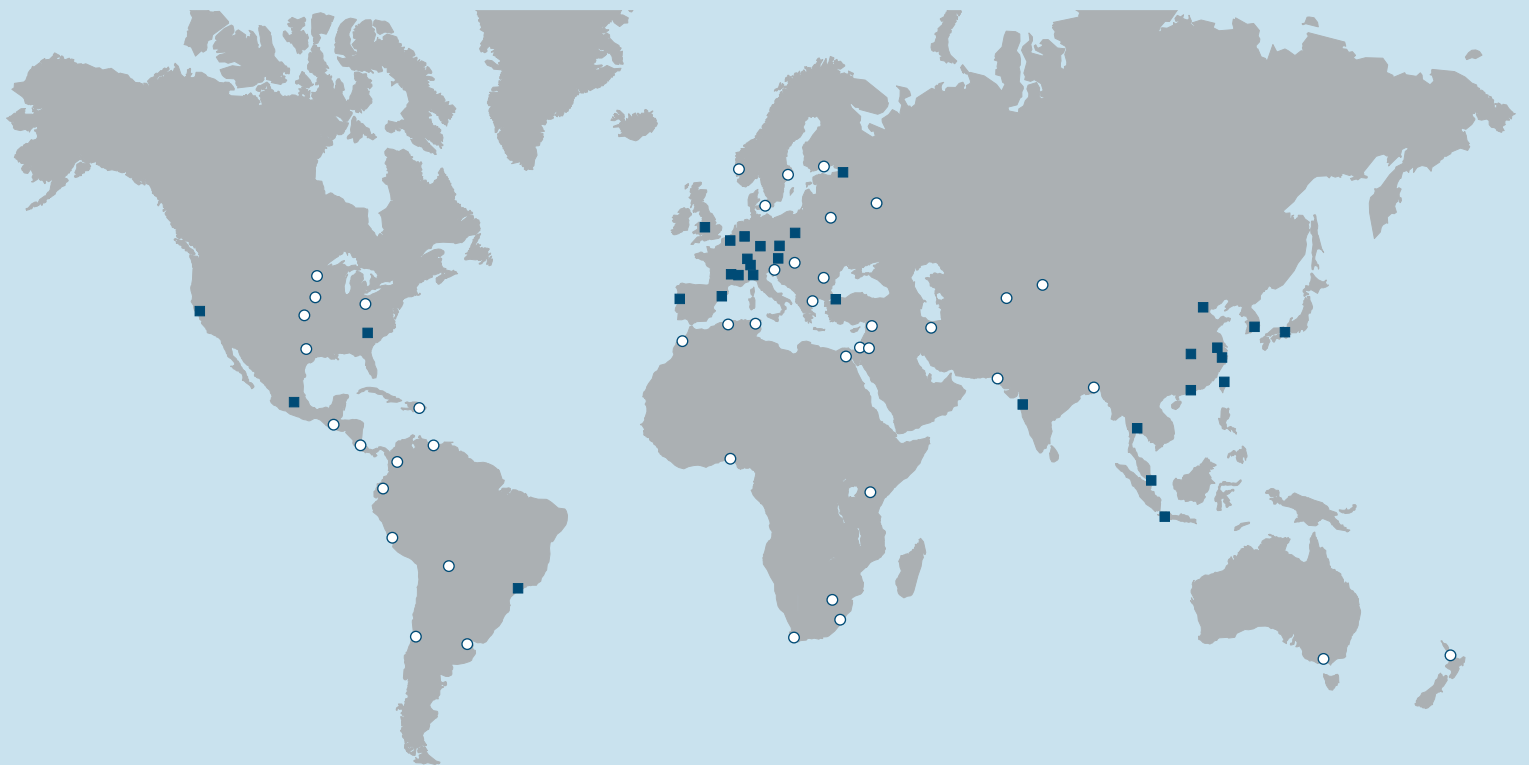
Protective dust caps (to be separately ordered)

| For socket | Models | Part-numbers |
|---|--------|--------------|
|  | MPX 06 | MPX 06.8500 |
| | MPX 10 | MPX 10.8500 |
| | MPX 12 | MPX 12.8500 |
| | MPX 16 | MPX 16.8500 |
| | MPX 19 | MPX 19.8500 |
| | MPX 25 | MPX 25.8500 |

| For plug | Models | Part-numbers |
|--|--------|--------------|
|  | MPX 06 | MPX 06.8550 |
| | MPX 10 | MPX 10.8550 |
| | MPX 12 | MPX 12.8550 |
| | MPX 16 | MPX 16.8550 |
| | MPX 19 | MPX 19.8550 |
| | MPX 25 | MPX 25.8550 |

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