

FAST MOVING TECHNOLOGY

STÄUBLI

MPX

Hydraulics



The antipollution technology in the service of your medium pressure hydraulic circuits





A complete and wide range

The MPX is available:

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

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.

Automatic connection

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

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).

Applications

For medium pressure hydraulic circuits.

Quick connection of hydraulic circuits ensuring:

- no contamination and no pollution of the environment,
- high performance,
- safety.

For many hydraulic applications: connections to machinery, injection moulding machinery, core pulling circuits etc.



The opportunity to spend less and contribute to a sustainable development programme.

With Stäubli, you can rely on the performance of your equipment and reliability of long-term investments

Technical data

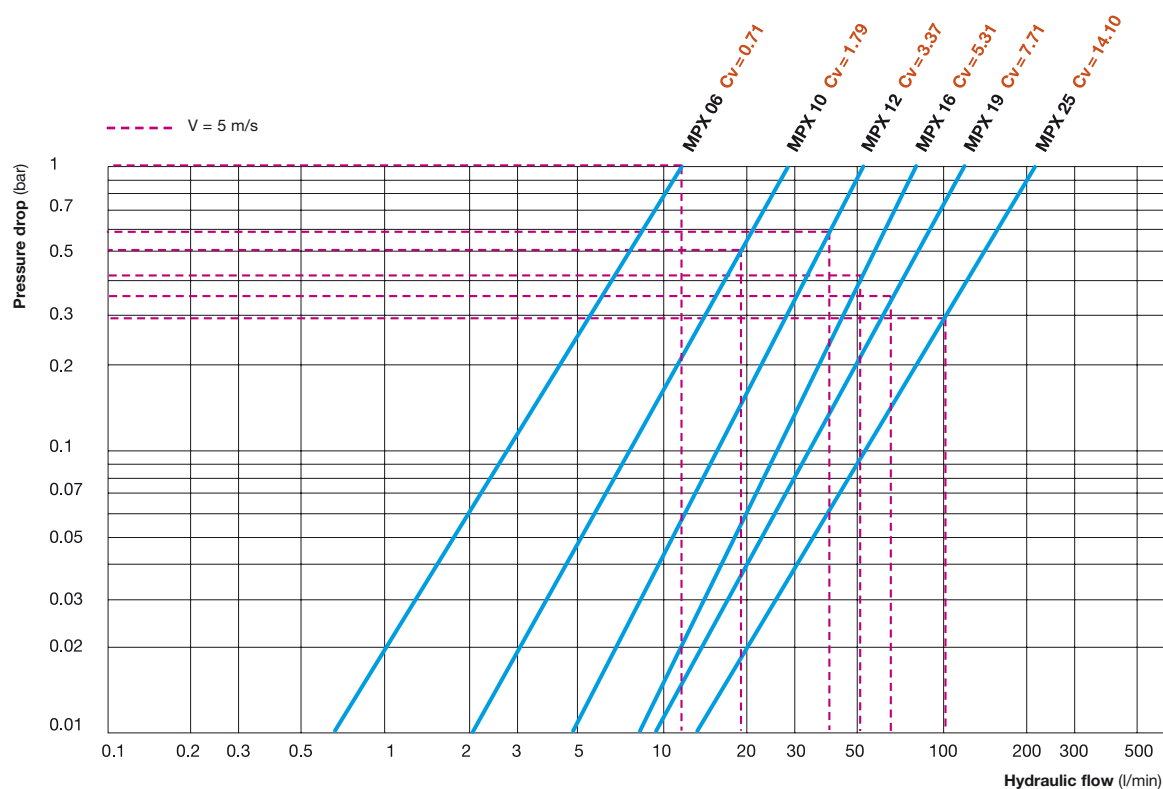


	MPX 06	MPX 10	MPX 12	MPX 16	MPX 19	MPX 25
Nominal diameter DN (mm)	6	10	12	16	19	25
Maximum allowable pressure PS (bar)	315	250	250	250	250	200
Minimum and maximum allowable temperatures TS (°C):						
■ with Fluorocarbon seal	-10 to +180	-10 to +180	-10 to +180	-10 to +180	-10 to +180	-10 to +180
■ with Nitrile seal	-15 to +100	-15 to +100	-15 to +100	-15 to +100	-	-
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

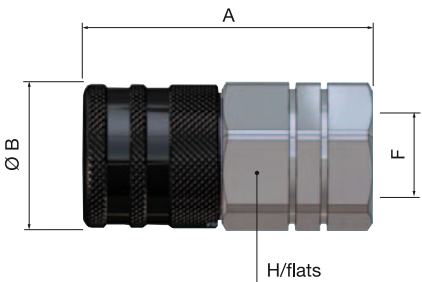
MPX 06	MPX 10	MPX 12	MPX 16	MPX 19	MPX 25
11.6	19	40	53	68	104

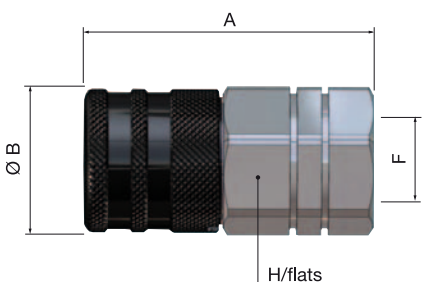
Test conditions:

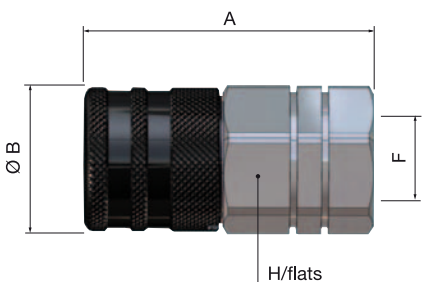
- Oil ISO VG32
- Temperature: 40 °C
- Viscosity: 28.8 – 35.2 cSt
- Direction of flow: Socket → Plug

Part numbers

Sockets

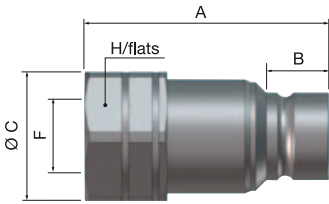
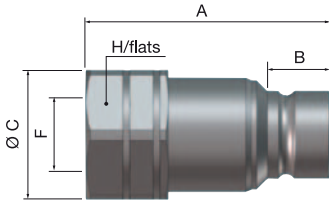
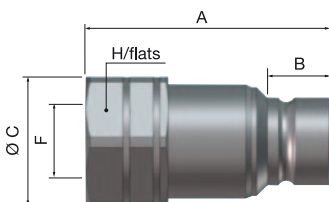
Designations	Models	Threads F	Dimensions (mm)			Part numbers
			A	Ø B	H/flats	
BSP female thread 	MPX 06	G 1/4	53	29	27	MPX 06.1101/JV*
	MPX 10	G 3/8	65	32	30	MPX 10.1102/JV*
		G 1/2	70	32	30	MPX 10.1103/JV*
	MPX 12	G 1/2	77	40	36	MPX 12.1103/JV
		G 3/4	84	40	36	MPX 12.1104/JV*
	MPX 16	G 3/4	84	45	41	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

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

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	
BSP 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
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
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



■ Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

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