



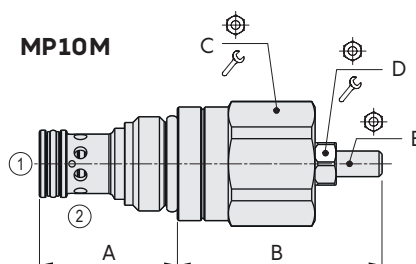
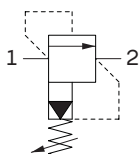
MP..M type pressure relief valves – 2 way

- Pilot operated
- Spool type
- Mechanical control with screw adjustments
- Different springs available to vary pressure range
- The backpressure values on line 2 must be added to valve nominal setting

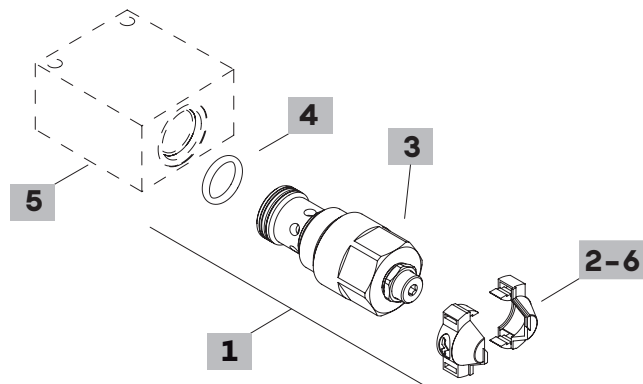
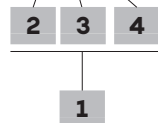
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

		MP10M	MP12M	MP16M
Nominal flow		120 l/min (31.7 US gpm)	200 l/min (52.8 US gpm)	400 l/min (105.67 US gpm)
Max. pressure		Port 1= 350 bar (5100 psi) Port 2= 30 bar (435 psi)		350 bar (5100 psi)
Oil leakage	at 80% of max. pressure setting	25 cm³/min (1.525 in³/min)		100 cm³/min (6.102 in³/min)
Fluid		mineral based or sinthetic hydraulic fluid with lubricating properties		
Viscosity		10–200 cSt		12–400 cSt
Max level of contamination		18/16/13 ISO4406		20/18/14 ISO4406
Fluid temperature	with NBR seals+Polyurethane with FPM seals	from -25°C (-13°F) to 90°C (194°F) from -20°C (-4°F) to 110°C (230°F)		
Environmental temp. for working conditions		from -20°C (-4°F) to 60°C (140°F)		
Cavity		SAE 10/2	SAE 12/2	SAE 16/2
Weight		0.190 kg (0.42 lb)	0.300 kg (0.66 lb)	0.490 kg (1.080 lb)

NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B		C			D		E	
											
	mm	in	mm	in		Nm	lbft		Nm	lbft	
MP10M	32.6	1.28	48.3	1.90	27	50	37	10	6.6	4.9	3
MP12M	45	1.77	46.9	1.85	32	80	59	10	6.6	4.9	3
MP16M	45.2	1.78	49.8	1.96	36	100	74	19	20	15	5

Ordering codes and description composition
MP16M/0Y2B

1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 10/2		
MP10M/0G1B	OMP10002091	Pressure range 1
MP10M/0G2B	OMP100020A00	Pressure range 2
MP10M/0G3B	OMP10002093	Pressure range 3
SAE cavity 12/2		
MP12M/0G1B	OMP12002046	Pressure range 1
MP12M/0G2B	OMP12002047	Pressure range 2
MP12M/0G3B	OMP12002048	Pressure range 3
SAE cavity 16/2		
MP16M/0Y1B	OMP16002017	Pressure range 1
MP16M/0Y2B	OMP16002013	Pressure range 2
MP16M/0Y3B	OMP16002014	Pressure range 3

2 Adjustments

TYPE	DESCRIPTION
G/Y	With screw
X	Valve set with antitampering cap (part code: see point 6)

3 Pressure range

TYPE	DESCRIPTION
1	Pressure range 5+50 bar (72.5÷725 psi);
2	Pressure range 50+220 bar (725÷3190 psi);
3	Pressure range 150+350 bar (2175÷5100 psi);

4 Seals

TYPE	DESCRIPTION
B	NBR (Buna)+Polyurethane o-ring seals, std configuration
V	FPM (Viton) o-ring seals, contact Sales Dept

5 Valve body

TYPE	CODE	DESCRIPTION
SAE10/2 - SAE8	3CC1020K11	Aluminium body for cavity 10 valve, SAE8 std thread
SAE12/2 - SAE10	3CC1220L11	Aluminium body for cavity 12 valve, SAE10 std thread
SAE16/2 - SAE12	3CC1620M11	Aluminium body for cavity 16 valve, SAE12 std thread

Note: aluminium body can stand up to 210 bar (3050 psi)
 For steel bodies or different threading see from page 208

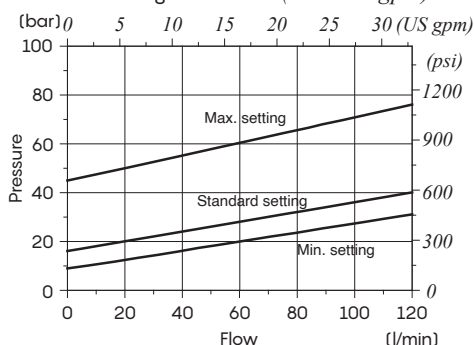
6 Accessories

TYPE	CODE	DESCRIPTION
-	4COP116420	Cap (for MP10M / MP12M)
-	4COP126300	Antitampering cap (x2) (for MP16M)

Rating diagrams

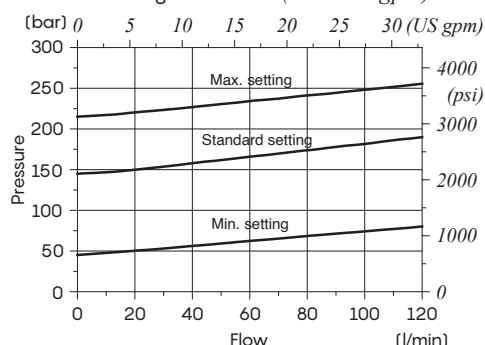
MP10M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



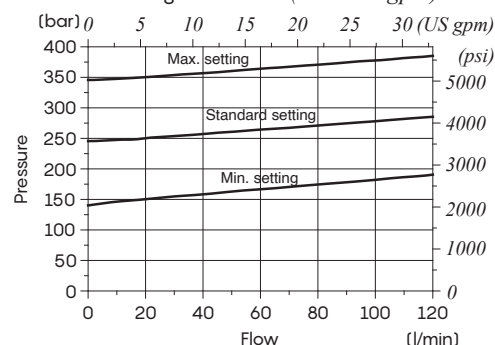
MP10M pressure vs. flow

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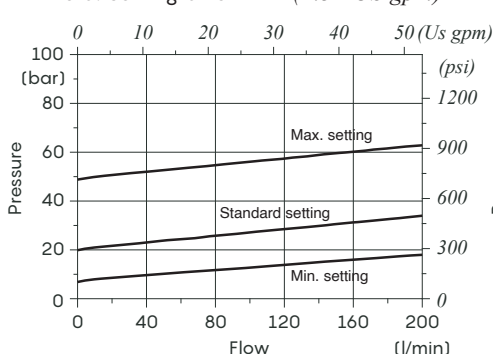
MP10M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



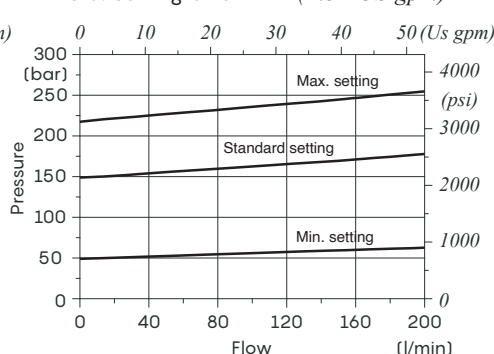
MP12M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



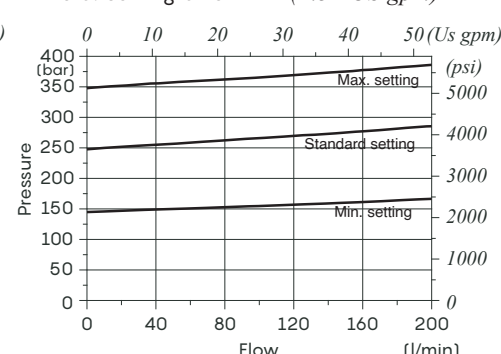
MP12M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



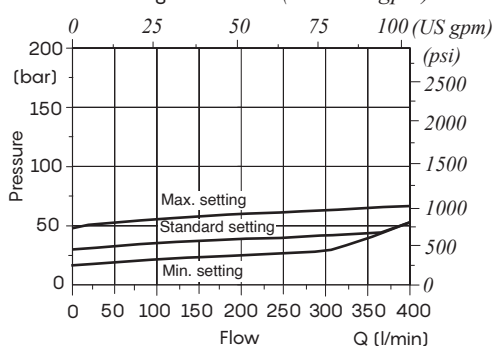
MP12M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



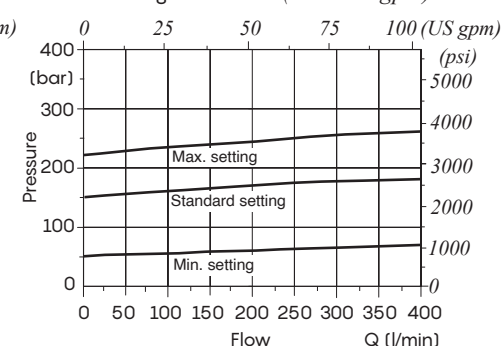
MP16M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



MP16M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)



MP16M pressure vs. flow

Std. setting at 5 l/min (1.32 US gpm)

