



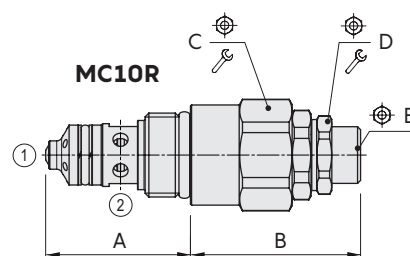
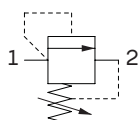
MC..R type pressure relief valves - 2 way

- Direct acting
- Poppet type
- Mechanical control with screw adjustment
- Prepared for antitampering cap
- Different springs available to vary pressure range
- The backpressure values on line 2 must be added to valve nominal setting
- From SAE08 to SAE10 cavities

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

		MC08R	MC09R	MC10R
Nominal flow		25 l/min (6.6 US gpm)	35 l/min (9.2 US gpm)	60 l/min (15.8 US gpm)
Max. pressure		350 bar (5100 psi)		
Oil leakage	at 80% of max. pressure setting	2 cm³/min (0.122 in³/min)		
Fluid		mineral based or synthetic hydraulic fluid with lubricating properties		
Viscosity		10-200 cSt		
Max level of contamination		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 08/2 A	SAE 09/2 A	SAE 10/2 A
Weight		0.170 kg (0.37 lb)	0.230 kg (0.51 lb)	0.315 kg (0.69 lb)

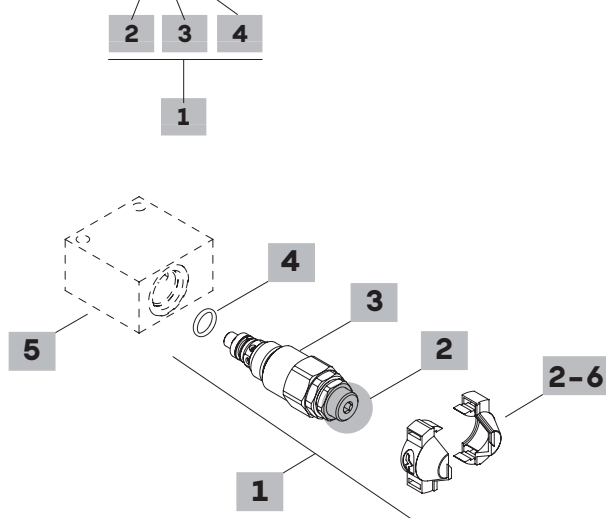
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B		C		D		E	
	mm	in	mm	in	Nm	lbft	Nm	lbft	Nm	lbft
MC08R	34	1.34	46.6	1.83	24	30	22	19	20	15
MC09R	33.8	1.33	46.6	1.83	24	42	31	19	20	15
MC10R	38.3	1.50	44.4	1.75	27	50	37	19	20	15

Ordering codes and description composition

MC08R/OY1B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/2 A		
MC08R/OY1B	OMC08002050	Pressure range 1
MC08R/OY2B	OMC08002051	Pressure range 2
MC08R/OY3B	OMC08002052	Pressure range 3
SAE cavity 09/2 A		
MC09R/OY1B	OMC09002000	Pressure range 1
MC09R/OY2B	OMC09002001	Pressure range 2
MC09R/OY3B	OMC09002002	Pressure range 3
SAE cavity 10/2 A		
MC10R/OY1B	OMC10002023	Pressure range 1
MC10R/OY2B	OMC10002024	Pressure range 2
MC10R/OY3B	OMC10002025	Pressure range 3

2 Adjustments

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

3 Pressure range

Standard setting is referred to 5 l/min (1.32 US gpm) flow

TYPE	DESCRIPTION
1	Pressure range 10÷120 bar (145÷1740 psi); Std. setting 80 bar (1160 psi)
2	Pressure range 40÷200 bar (580÷2900 psi); Std. setting 175 bar (2540 psi)
3	Pressure range 200÷350 bar (2900÷5100 psi); Std. setting 250 bar (3600 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
SAE08/2-G 3/8	3CC0820C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE09/2-G 3/8	3CC0920C11	Aluminium body for cavity 09 valve, G 3/8 std thread
SAE10/2-G 3/8	3CC1020C11	Aluminium body for cavity 10 valve, G 3/8 std thread

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

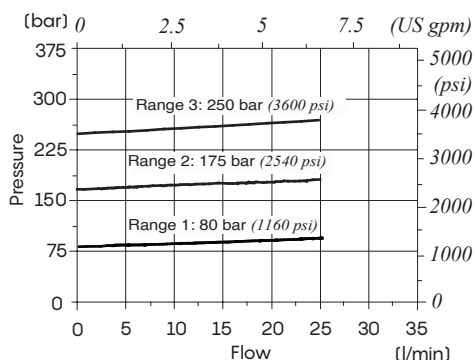
6 Accessories

TYPE	CODE	DESCRIPTION
-	4COP126301	Antitampering cap (x2)

Rating diagrams

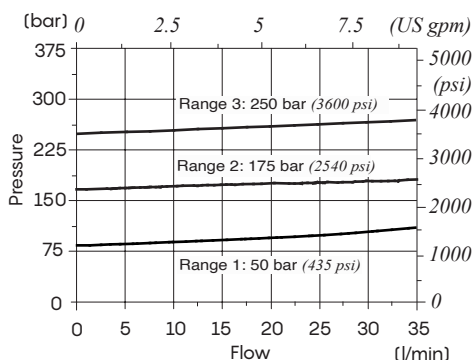
MC08R pressure vs. flow

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



MC09R pressure vs. flow

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



MC10R pressure vs. flow

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

