



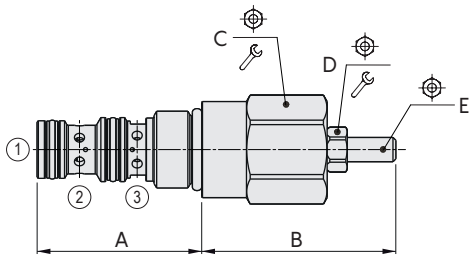
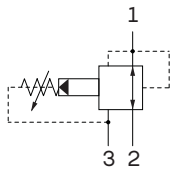
**RP..M type
pressure reducing valves – 3 way**

- Piloted acting with relieving
- Spool type
- Mechanical control with screw adjustments
- Available in fixed or adjustable version (range from 5 to 350 bar - 72.5 to 5100 psi)
- Applications for high flow rates (max. 350 bar - 5100 psi)
- The backpressure values on line 3 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.

	RP08M	RP10M
Nominal flow	50 l/min (13 US gpm)	70 l/min (18.5 US gpm)
Max. pressure	Port 2= 350 bar (5100 psi) Port 3= 30 bar (435 psi)	
Fluid	mineral based or synthetic hydraulic fluid with lubricating properties	
Viscosity	12–200 cSt	
Max level of contamination	18/16/13 ISO4406	
Fluid temperature	with NBR seals+Polyurethane with FPM seals	
Environmental temp. for working conditions	from -25°C (-13°F) to 90°C (194°F) from -20°C (-4°F) to 110°C (230°F)	
Cavity	SAE 08/3	SAE 10/3
Weight	0.160 kg (0.35 lb)	0.200 kg (0.44 lb)

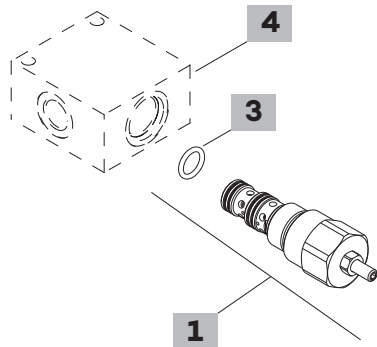
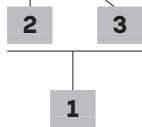
NOTE – For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B		C			D			E	
												
	mm	in	mm	in	Nm	lbf		Nm	lbf			
RP08M	40.8	1.61	48.1	1.89	24	30	22	10	6.6	4.9	3	
RP10M	47.2	1.86	46.3	1.82	27	50	37	10	6.6	4.9	3	

Ordering codes and description composition

RP10M/1G1B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/3		
RP08M/1G1B	ORP08002019	Pressure range 1
RP08M/1G2B	ORP08002020	Pressure range 2
RP08M/1G3B	ORP08002021	Pressure range 3
SAE cavity 10/3		
RP10M/1G1B	ORP10002038	Pressure range 1
RP10M/1G2B	ORP10002039	Pressure range 2
RP10M/1G3B	ORP10002034	Pressure range 3

2 Pressure range

Standard setting is referred to 5 l/min (1.32 US gpm)	
TYPE	DESCRIPTION
G1	Pressure range 5÷80 bar (72.5÷1160 psi); Std. setting 50 bar (725 psi)
G2	Pressure range 20÷200 bar (290÷2900 psi); Std. setting 150 bar (2175 psi)
G3	Pressure range 90÷350 bar (1305÷5075 psi); Std. setting 250 bar (3625 psi)

3 Seals

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

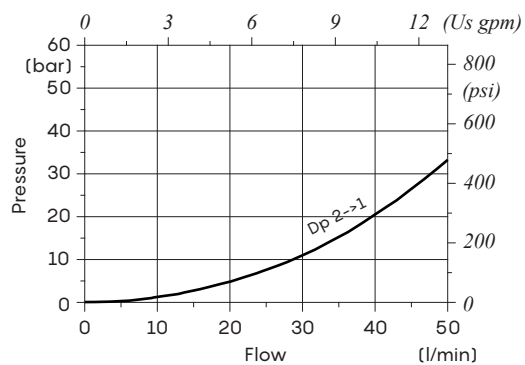
4 Valve body

TYPE	CODE	DESCRIPTION
SAE08/3-G 3/8	3CC0830C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE10/3-G 3/8	3CC1030C11	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 210

Rating diagrams

RP08M pressure drop



RP10M pressure drop

