



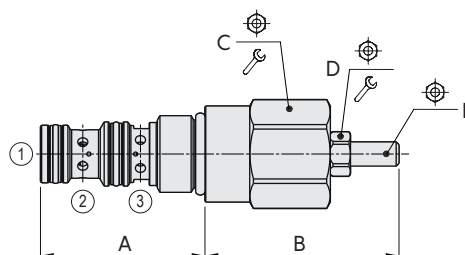
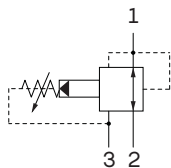
RP..M type pressure reducing valves - 3 way

- 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 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 08/3	SAE 10/3
Weight	0.160 kg (0.35 lb)	0.200 kg (0.44 lb)

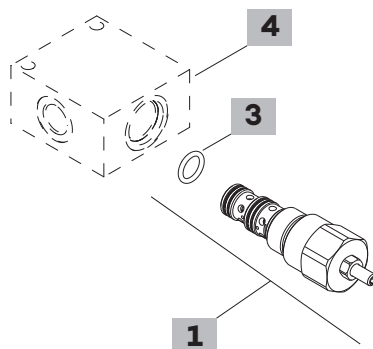
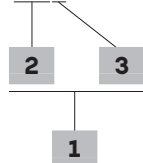
NOTE - For different conditions, please contact Walvoil Sales Dpt.



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

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

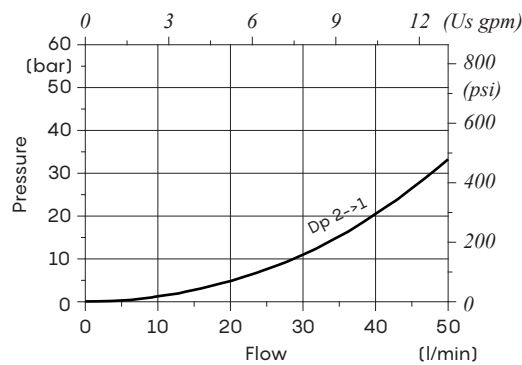
4 Valve body

TYPE	CODE	DESCRIPTION
SAE08/3-SAE8	3CC0830K11	Aluminium body for cavity 08 valve, SAE8 std thread
SAE10/3-SAE8	3CC1030K11	Aluminium body for cavity 10 valve, SAE8 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

