



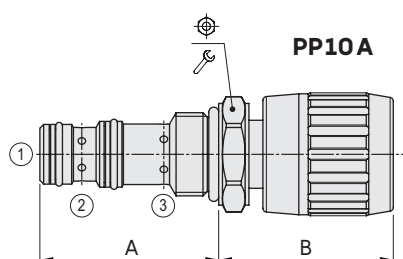
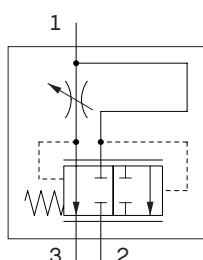
PP..A type flow control pressure compensated valves – 3 way

- Spool type
- Different types of manual adjustment
- With exceeding flow to pressure
- From SAE08 to SAE16 cavities

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

		PP08A	PP10A	PP12A	PP16A
Nominal flow	Q1max= Q3max=	20 l/min (5.2 US gpm) 15 l/min (4 US gpm)	50 l/min (13.2 US gpm) 30 l/min (7.9 US gpm)	90 l/min (23.8 US gpm) 50 l/min (13 US gpm)	150 l/min (39.6 US gpm) 90 l/min (24 US gpm)
Max. pressure		350 bar (5100 psi)			
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+PTFE 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	SAE 12/3	SAE 16/3
Weight		0.15 kg (0.33 lb)	0.20 kg (0.44 lb)	0.42 kg (0.92 lb)	0.57 kg (1.26 lb)

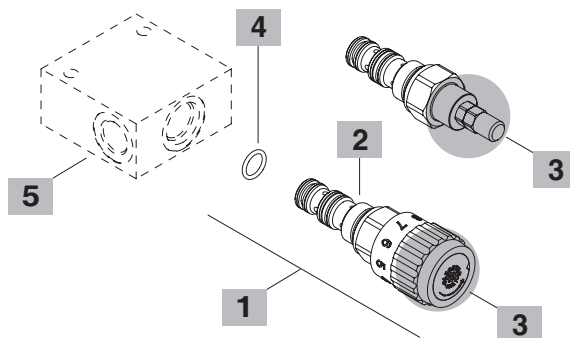
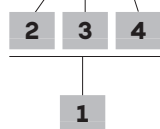
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type		A		B		 Nm  lbf·ft	
		mm	in	mm	in		
PP08A/A	M	41.1	1.62	54.1	2.13	24	30
	S	41.1	1.62	48	1.89	24	30
PP10A/A	M	47.2	1.86	47.2	1.86	27	50
	S	47.2	1.86	42	1.65	27	50
PP12A/A	M	73.5	2.89	47.5	1.87	32	80
	S	73.5	2.89	43	1.69	32	80
PP16A/A	M	75	2.95	51.5	2.03	41	100
	S	75	2.95	51	2.01	41	100

Ordering codes and description composition

PP08A/AMOB



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/3		
PP08A/AMOB	OPP08002000	Handknob adjustment
PP08A/ASOB	OPP08002004	Screw type adjustment
SAE cavity 10/3		
PP10A/AMOB	OPP10002000	Handknob adjustment
PP10A/ASOB	OPP10002005	Screw type adjustment
SAE cavity 12/3		
PP12A/AMOB	OPP12002000	Handknob adjustment
PP12A/ASOB	OPP12002004	Screw type adjustment
SAE cavity 16/3		
PP16A/AMOB	OPP16002001	Handknob adjustment
PP16A/ASOB	OPP16002006	Screw type adjustment

2 Pressure drop from 1 to 2

TYPE	DESCRIPTION
A	12 bar (170 psi)

3 Adjustments

TYPE	DESCRIPTION
S	Screw
M	Handknob

4 Seals

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

5 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
SAE12/3-G 1/2	3CC1230D11	Aluminium body for cavity 12 valve, G 1/2 std thread
SAE16/3-G 3/4	3CC1630E11	Aluminium body for cavity 16 valve, G 3/4 std thread

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

