



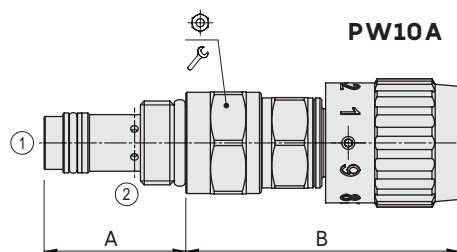
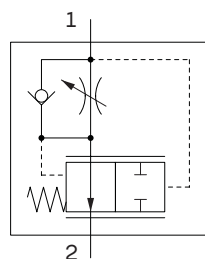
PW..A type flow control pressure compensated valves – 2 way

- Spool type
- Different types of manual adjustment
- Adjustment from port 1 to port 2
- With reverse free flow check
- From SAE08 to SAE16 cavities

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

	PW08A	PW10A	PW12A	PW16A
Nominal flow	10 l/min (2.6 US gpm)	30 l/min (7.9 US gpm)	50 l/min (13 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 08/2 A	SAE 10/2 A	SAE 12/2 A	SAE 16/2 A
Weight	0.22 kg (0.48 lb)	0.30 kg (2.20 lb)	0.72 kg (1.58 lb)	0.98 kg (2.16 lb)

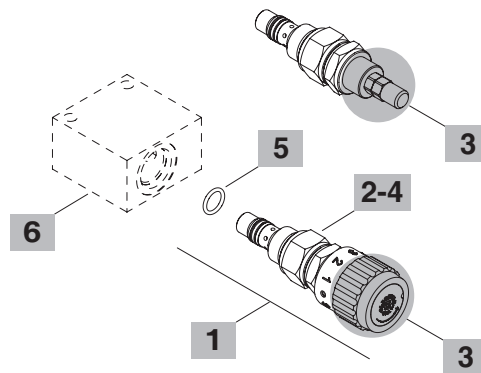
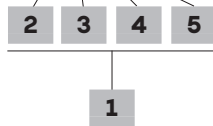
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type		A		B				
		mm	in	mm	in	 Nm lbf·ft		
PW08A/A	M	36.6	1.44	67.6	2.66	24	30	22
	S	36.6	1.44	62	2.44	24	30	22
PW10A/A	M	37.5	1.48	72.5	2.85	27	50	37
	S	37.5	1.48	69	2.72	27	50	37
PW12A/A	M	58.5	2.30	69.2	2.72	32	80	59
	S	58.5	2.30	61.5	2.42	32	80	59
PW16A/A	M	68	2.68	102	4.02	41	100	74
	S	68	2.68	96	3.78	41	100	74

Ordering codes and description composition

PW08A/AM1B



1 Cartridges		
TYPE	CODE	DESCRIPTION
SAE cavity 08/2 A		
PW08A/AM1B	OPW08002000	Handknob adjustment
PW08A/AS1B	OPW08002003	Screw type adjustment
SAE cavity 10/2 A		
PW10A/AM1B	OPW10002000	Handknob adjustment
PW10A/AS1B	OPW10002001	Screw type adjustment
SAE cavity 12/2 A		
PW12A/AM1B	OPW12002000	Handknob adjustment
PW12A/AS1B	OPW12002001	Screw type adjustment
SAE cavity 16/2 A		
PW16A/AM1B	OPW16002000	Handknob adjustment
PW16A/AS1B	OPW16002001	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 Pressure drop from 2 to 1	
TYPE	DESCRIPTION
1	0.5 bar (7.3 psi)

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

6 Valve body		
TYPE	CODE	DESCRIPTION
SAE08/2-SAE8	3CC0820K11	Aluminium body for cavity 08 valve, SAE8 std thread
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

Rating diagrams

