



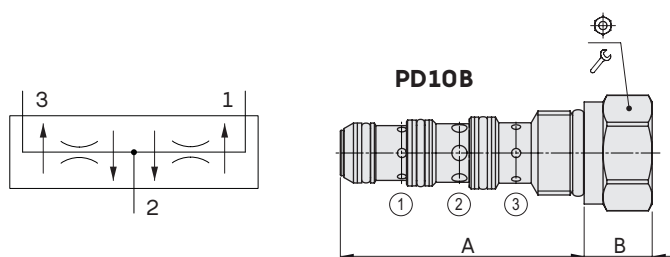
PD... type flow control pressure compensated valves - 3 way

- Spool type
- Direct mechanical control
- Flow divider in one direction and flow combiner in the opposite direction
- From SAE10 to SAE16 cavities

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

	PD10B/110B	PD10B/120B	PD10B/130B	PD10B/140B	PD10B/150B	PD12B/100B	PD16C/110B
Flow range	4-12 l/min (1-3 US gpm)	12-20 l/min (3-5 US gpm)	20-28 l/min (5-7 US gpm)	28-36 l/min (7-9 US gpm)	36-44 l/min (9-12 US gpm)	40-75 l/min (10-20 US gpm)	75-150 l/min (20-40 US gpm)
Max. pressure	210 bar (3045 psi)						
Maximum division error	± 5% of the oil flow in 1 or 3 and 120 bar - 1750 psi - pressure difference between 1 and 3. (Division rate 50%+50%)						
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 10/4	SAE 10/4	SAE 10/4	SAE 10/4	SAE 10/4	SAE 12/4	SAE 16/4
Weight	0.20 kg (0.44 lb)	0.20 kg (0.44 lb)	0.20 kg (0.44 lb)	0.20 kg (0.44 lb)	0.20 kg (0.44 lb)	0.30 kg (0.66 lb)	0.55 kg (1.214 lb)

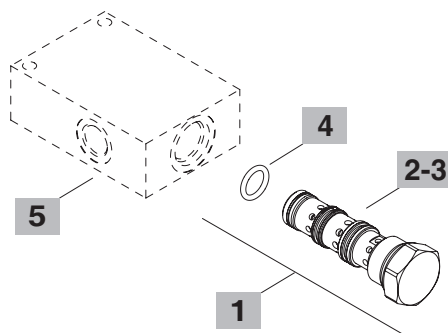
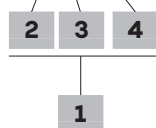
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B		 Nm lbft	
	mm	in	mm	in		
PD10B	64.5	2.54	18	0.71	27	50 37
PD12B	83	3.27	12	0.47	32	80 59
PD16C	104	4.09	17	0.69	41	100 74

Ordering codes and description composition

PD10B/110B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 10/4		
PD10B/110B	OPD10002004	Flow range 1
PD10B/120B	OPD10002005	Flow range 2
PD10B/130B	OPD10002006	Flow range 3
PD10B/140B	OPD10002007	Flow range 4
PD10B/150B	OPD10002008	Flow range 5
SAE cavity 12/4		
PD12B/100B	OPD12002001	Range 40÷75 l/min (10-20 US gpm)
SAE cavity 16/4		
PD16C/100B	OPD16002003	Range 75÷150 l/min (20-40 US gpm)

2 Dividing-Combining ratio

TYPE	DESCRIPTION
1	50÷50

3 Flow range

TYPE	DESCRIPTION
1	4÷12 l/min (1-3 US gpm)
2	12÷20 l/min (3-5 US gpm)
3	20÷28 l/min (5-7 US gpm)
4	28÷36 l/min (7-9 US gpm)
5	36÷44 l/min (9-12 US gpm)

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
SAE10/4-G 3/8	3CC1040C11	Aluminium body for cavity 10 valve, G 3/8 std thread
SAE12/4-G 1/2	3CC1240D11	Aluminium body for cavity 12 valve, G 1/2 std thread
SAE16/4-G 3/4	3CC1640E11	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

Rating diagrams

