



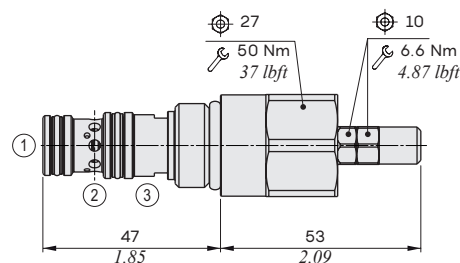
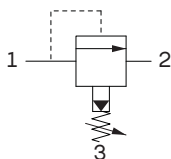
SP10A type sequence valves – 3 way

- Piloted acting
- Spool type
- Not affected by back pressure on port 2
- Mechanical control with screw adjustment
- Different springs available to vary pressure range

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

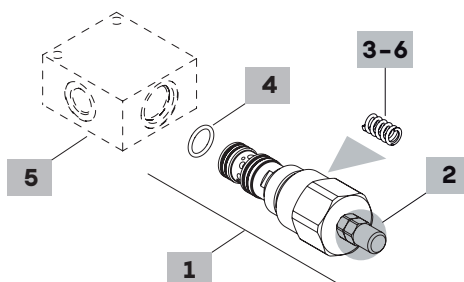
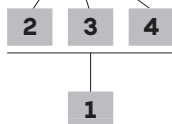
SP10A		
Nominal flow		50 l/min (13 US gpm)
Max. pressure		350 bar (5100 psi)
Oil leakage	at 210 bar (3050 psi)	25 cm ³ /min (1.52 in ³ /min)
Fluid	mineral based or synthetic hydraulic fluid with lubricating properties	
Viscosity		10-200 cSt
Max level of contamination		20/18/14 ISO4406
Fluid temperature	with NBR seals+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 10/3
Weight		0.21 kg (0.46 lb)

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



Ordering codes and description composition

SP10A/1S3B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 10/3		
SP10A/1S1B	OSP10002002	Pressure range 1
SP10A/1S2B	OSP10002004	Pressure range 2
SP10A/1S3B	OSP10002003	Pressure range 3

2 Adjustments

TYPE	DESCRIPTION
S	Screw

3 Pressure range

Standard setting is referred to 5 l/min (1.32 US gpm) flow

TYPE	DESCRIPTION
1	Pressure range 10÷80 bar (145÷1160 psi); Std. setting 20 bar (290 psi), pressure increase by steps of 10 bar (145 psi) for screw turn
2	Pressure range 50÷220 bar (725÷3200 psi); Std. setting 150 bar (2200 psi), pressure increase by steps of 46 bar (660 psi) for screw turn
3	Pressure range 150÷350 bar (2200÷5100 psi); Std. setting 250 bar (3600 psi), pressure increase by steps of 110 bar (1600 psi) for screw turn

4 Seals

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

5 Valve body

TYPE	CODE	DESCRIPTION
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

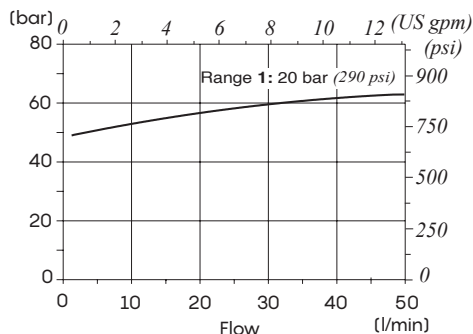
6 Springs

TYPE	CODE	DESCRIPTION
1	3ML1081400	Pressure range 1 - white band
2	3ML1081401	Pressure range 1 - no band
3	3ML1081402	Pressure range 1 - red band

Rating diagrams

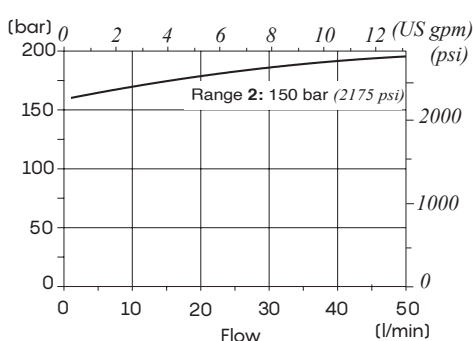
SP10A pressure vs. flow

std. setting at 5 l/min (1.32 US gpm)



SP10A pressure vs. flow

std. setting at 5 l/min (1.32 US gpm)



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