



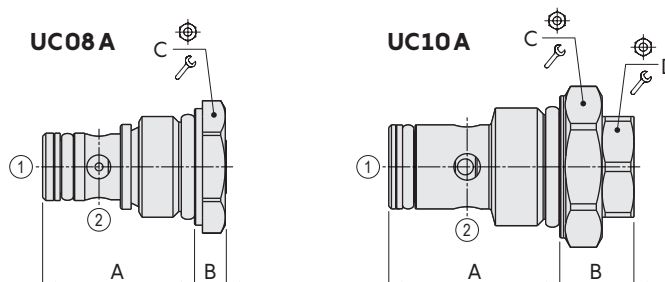
UC..A type check valves – 2 way

- Poppet type
- Direct acting
- Different opening pressures available
- From SAE08 to SAE16 cavities

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

		UC08A	UC10A	UC12A	UC16A
Nominal flow		up to 20 l/min (5.3 US gpm)	up to 35 l/min (9.2 US gpm)	up to 50 l/min (13 US gpm)	up to 100 l/min (26 US gpm)
Max. pressure		350 bar (5100 psi)			
Oil leakage	at 100 bar (1450 psi)	0.25 cm³/min (0.015 in³/min)	0.25 cm³/min (0.015 in³/min)	0.25 cm³/min (0.015 in³/min)	0.25 cm³/min (0.015 in³/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+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	SAE 10/2	SAE 12/2	SAE 16/2
Weight		0.080 kg (0.18 lb)	0.090 kg (0.20 lb)	0.180 kg (0.40 lb)	0.370 kg (0.81 lb)

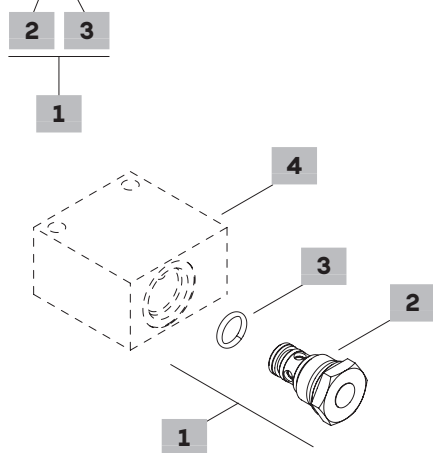
NOTE – For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B		C		D			
	mm	in	mm	in	Nm	lbf	Nm	lbf	Nm	lbf
UC08A	28.7	1.13	6	0.24	22	30	22	-	-	-
UC10A	32.3	1.27	14	0.55	27	50	37	19	30	22
UC12A	46	1.81	14	0.55	32	80	59	22	42	31
UC16A	45.2	1.78	25	0.98	41	100	73	30	65	48

Ordering codes and description composition

UC08A/001B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/2		
UC08A/001B	0UC08002001	Opening pressure 0.5 bar (7.3 psi)
SAE cavity 10/2		
UC10A/001B	0UC10002000	Opening pressure 0.5 bar (7.3 psi)
SAE cavity 12/2		
UC12A/001B	0UC12002000	Opening pressure 0.5 bar (7.3 psi)
SAE cavity 16/2		
UC16A/001B	0UC16002001	Opening pressure 0.5 bar (7.3 psi)

2 Opening pressure from 1 to 2

TYPE	DESCRIPTION
1	0.5 bar (7.3 psi)
2	2.5 bar (36.2 psi)
3	5 bar (72.5 psi)

3 Seals

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

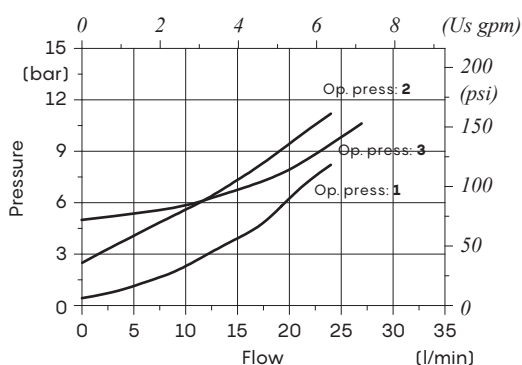
5 Valve body

TYPE	CODE	DESCRIPTION
SAE08/2-G 3/8	3CC0820C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE10/2-G 3/8	3CC1020C11	Aluminium body for cavity 10 valve, G 3/8 std thread
SAE12/2-G 1/2	3CC1220D11	Aluminium body for cavity 12 valve, G 1/2 std thread
SAE16/2-G 3/4	3CC1620E11	Aluminium body for cavity 16 valve, G 3/4 std thread

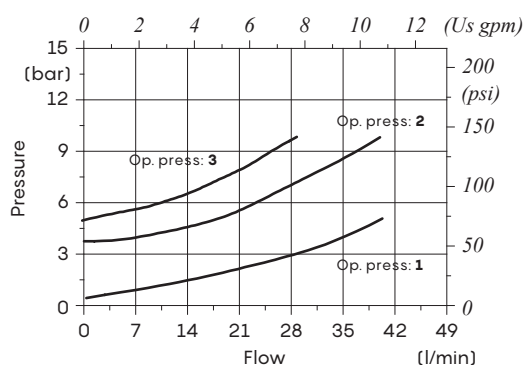
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 208

Rating diagrams

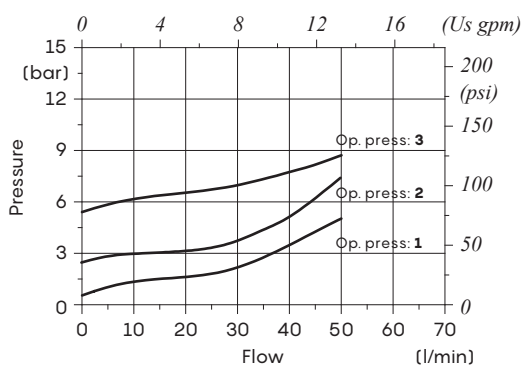
UC08A pressure drop vs. flow



UC10A pressure drop vs. flow



UC12A pressure drop vs. flow



UC16A pressure drop vs. flow

