



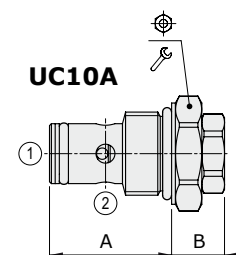
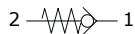
## UC..A type check valves - 2 way

- Poppet type
- 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 cm <sup>3</sup> /min (0.015 in <sup>3</sup> /min)	0.25 cm <sup>3</sup> /min (0.015 in <sup>3</sup> /min)	0.25 cm <sup>3</sup> /min (0.015 in <sup>3</sup> /min)
Fluid	mineral based oil			
Viscosity	10-200 cSt			
Max level of contamination	20/18/14 ISO4406			
Fluid temperature	with NBR seals with FPM seals	from -20°C (-4°F) to 80°C (176°F) from -20°C (-4°F) to 100°C (212°F)		
Environmental temp. for working conditions	from -20°C (-4°F) to 50°C (122°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)

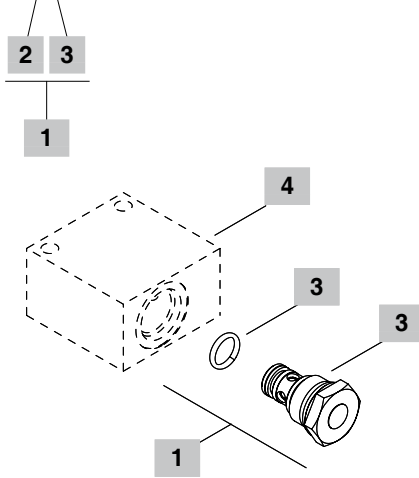
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type	A		B				Nm	lbft
	mm	in	mm	in				
UC08A	27.6	1.09	15.5	0.61	24	30	22	
UC10A	32.3	1.27	12.5	0.49	27	50	37	
UC12A	46	1.81	14	0.55	32	80	59	
UC16A	45.2	1.78	25	0.98	41	100	73	

## Ordering codes and description composition

### UC08A/001B



#### 1 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)

#### 2 Seals

TYPE	DESCRIPTION
B	<b>NBR (Buna)</b> Std configuration without addition
V	For valve with <b>FPM (Viton)</b> o-ring seals, contact Sales Dpt.

#### 4 Valve body

TYPE	CODE	DESCRIPTION
<b>SAE 08/2-G 3/8</b>	3CC0820C11	Aluminium body for cavity 08 valve, G3/8 std thread
<b>SAE 10/2-G 3/8</b>	3CC1020C11	Aluminium body for cavity 10 valve, G3/8 std thread
<b>SAE 12/2-G 1/2</b>	3CC1220D11	Aluminium body for cavity 12 valve, G1/2 std thread
<b>SAE 16/2-G 3/4</b>	3CC1620E11	Aluminium body for cavity 16 valve, G3/4 std thread

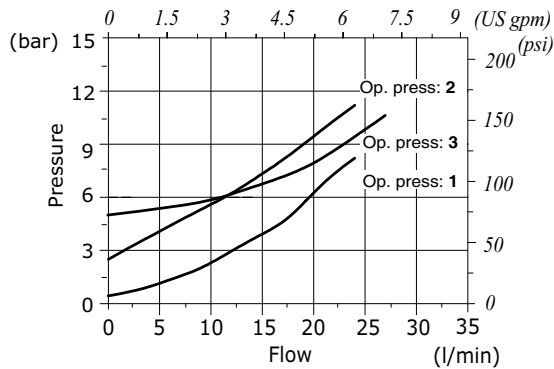
Note: aluminium body can stand up to 210 bar (3050 psi)  
For steel bodies or different threading see from page 215

#### 3 Cartridges

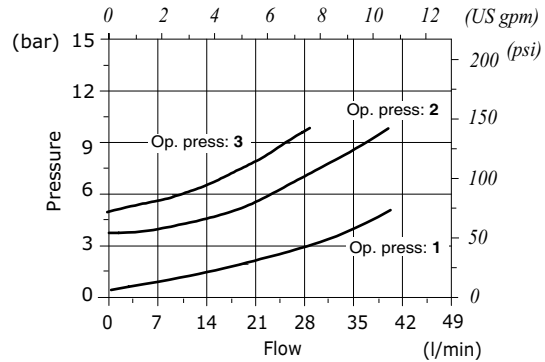
TYPE	CODE	DESCRIPTION
<b>SAE cavity 08/2</b>		
<b>UC08A/001B</b>	0UC08002001	Opening pressure 0.5 bar (7.3 psi)
<b>SAE cavity 10/2</b>		
<b>UC10A/001B</b>	0UC10002000	Opening pressure 0.5 bar (7.3 psi)
<b>SAE cavity 12/2</b>		
<b>UC12A/001B</b>	0UC12002000	Opening pressure 0.5 bar (7.3 psi)
<b>SAE cavity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

## Rating diagrams

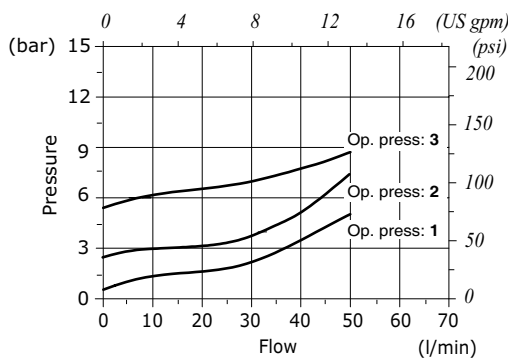
UC08A pressure drop vs flow



UC10A pressure drop vs flow



UC12A pressure drop vs flow



UC16A pressure drop vs flow

