

BC...type
pilot operated check valves - 3 way

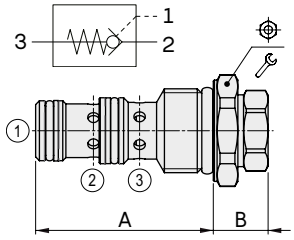
- Poppet type
- Direct acting
- From SAE08 to SAE16 cavities
- Different pilot ratio available

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

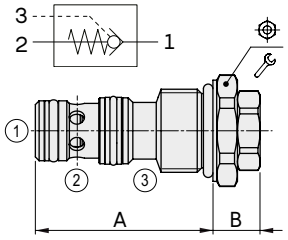
		BC08A	BC10A-B	BC10C	BC12A-B	BC16A-B
Nominal flow		15 l/min *(4 US gpm)*	30 l/min *(8 US gpm)*	60 l/min *(16 US gpm)*	50 l/min *(13 US gpm)*	100 l/min *(26 US gpm)*
Max. pressure		350 bar *(5100 psi)*				
Oil leakage	at 100 bar *(1450 psi)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*
Fluid		mineral based or sinthetic 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 08/3	SAE 10/3	SAE 10/3	SAE 12/3	SAE 16/3
Weight		0.080 kg *(0.18 lb)*	0.100 kg *(0.22 lb)*	0.111 kg *(0.24 lb)*	0.230 kg *(0.51 lb)*	0.440 kg *(0.97 lb)*

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

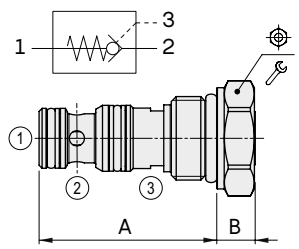
BC..A



BC..B



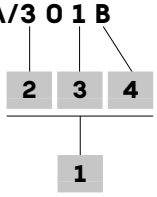
BC..C

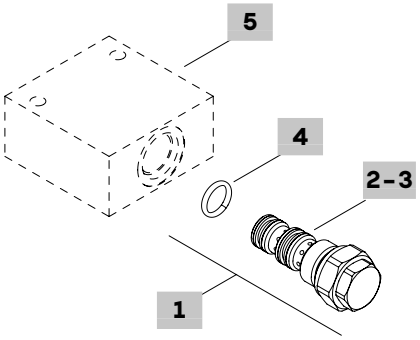


Valve type		A mm	A in	B mm	B in	Nm	lbft
BC..A	SAE 08/3	40.8	1.61	17	0.67	24	30	22
	SAE 10/3	47	1.85	12.5	0.49	27	50	36
	SAE 12/3	73.5	2.89	14	0.55	32	80	59
	SAE 16/3	75	2.97	24	0.94	41	100	73
BC..B	SAE 10/3	47	1.85	12.5	0.49	27	50	36
	SAE 12/3	73.5	2.89	14	0.55	32	80	59
	SAE 16/3	75	2.95	24	0.94	41	100	73
BC..C	SAE 10/3	47	1.85	10.2	0.40	27	50	36

Ordering codes and description composition

BC08A/3 0 1 B





1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/3		
BC08A/301B	0BC08002000	Pilot ratio 1:2.5 Opening press. 2 to 3=5 bar *(72.5 psi)*
SAE cavity 10/3		
BC10A/301B	0BC10002001	Pilot ratio 1:3 Opening press. 2 to 3=5 bar *(72.5 psi)*
BC10B/301B	0BC10002008	Pilot ratio 1:2 Opening press. 1 to 2=5 bar *(72.5 psi)*
BC10C/401B	0BC10002011	Pilot ratio 1:4 Opening press. 2 to 1=5 bar *(72.5 psi)*
SAE cavity 12/3		
BC12A/301B	0BC12002000	Pilot ratio 1:3 Opening press. 2 to 3=5 bar *(72.5 psi)*
BC12B/301B	0BC12002005	Pilot ratio 1:3 Opening press. 1 to 2=5 bar *(72.5 psi)*
SAE cavity 16/3		
BC16A/301B	0BC16002000	Pilot ratio 1:2.5 Opening press. 2 to 3=5 bar *(72.5 psi)*
BC16B/301B	0BC16002004	Pilot ratio 1:2.5 Opening press. 1 to 2=5 bar *(72.5 psi)*

2 Pilot ratio

TYPE	DESCRIPTION
For BC..A	
BC08A/**3**	1:2.5
BC10A/**3**	1:3
BC12A/**3**	1:3
BC16A/**3**	1:2.5
For BC..B	
BC10B/**3**	1:2
BC12B/**3**	1:3
BC16B/**3**	1:2.5
For BC..C	
BC10B/**3**	1:4

3 Opening pressure from 2 to 3

TYPE	DESCRIPTION
For BC..A from 2 to 3	
1	5 bar *(72.5 psi)* with sealed piston
2	2.5 bar *(36.2 psi)* without sealed piston
For BC..B from 1 to 2	
1	5 bar *(72.5 psi)* with sealed piston
For BC..C from 2 to 1	
1	5 bar *(72.5 psi)* with seal

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
SAE08/3-G 3/8	3CC0830C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE10/3-G 3/8	3CC1030C11	Aluminium body for cavity 10 valve, G 3/8 std thread
SAE12/3-G 1/2	3CC1230D11	Aluminium body for cavity 12 valve, G 1/2 std thread
SAE16/3-G 3/4	3CC1630E11	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