

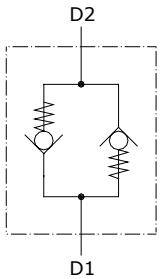
Type VBD-VBD/VP
check valves

- Double acting

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

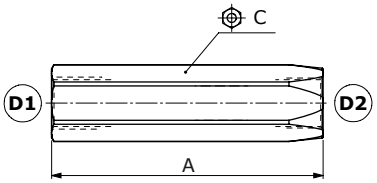
		VBD/VP 38	VBD 38	VBD 12	VBD 34
Nominal flow		20 l/min *(5.2 US gpm)*	40 l/min *(10.5 US gpm)*	60 l/min *(15.8 US gpm)*	90 l/min *(23.8 US gpm)*
Max. pressure		350 bar *(5100 psi)*			
Oil leakage		0.5 cm^3/min *(0.030 in^3/min)* at 75% of pressure setting			
Fluid		mineral based oil			
Viscosity		from 10 to 200 cSt			
Max. level of contamination		18/16/13 ISO4406			
Fluid temperature		*with NBR seals:* from -20°C *(-4°F)* to 80°C *(176°F)*			
Environmental temp. for working conditions		from -40°C *(-40°F)* to 100°C *(212°F)*			
Weight	Steel	0.21 kg *(0.46 lb)*	0.46 kg *(1.01 lb)*	0.54 kg *(1.19 lb)*	1.51 kg *(3.33 lb)*

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

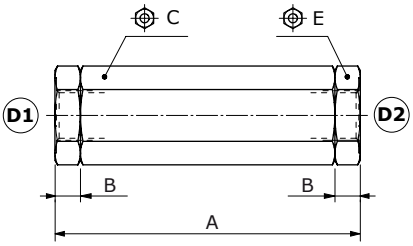


Dimensions

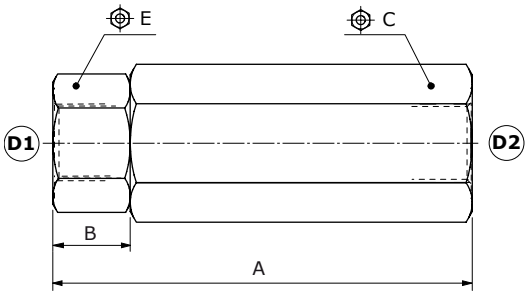
VBD/VP 38



VBD 38-VBD 12



VBD 34



Valve type	All ports
VBD/VP 38	G 3/8
VBD 38	G 3/8
VBD 12	G 1/2
VBD 34	G 3/4

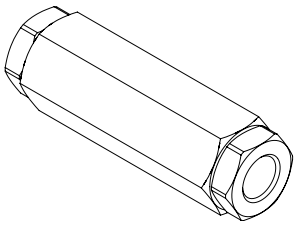
Valve type	A	B	C	E
VBD 38/VP	87-*3.43*	/	22	/
VBD 38	102-*4.02*	8.5-*0.335*	30	27
VBD 12	129-*5.08*	22-*0.87*	30	27
VBD 34	141-*5.55*	26-*1.02*	46	46

Valve type	All ports
VBD 38/VP/SAE	SAE8
VBD 38/SAE	SAE8

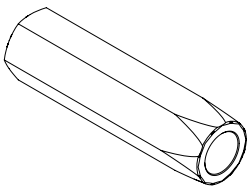
Valve type	A	B	C	E
VBD 38/VP/SAE	87-*3.43*	/	22	/
VBD 38/SAE	102-*4.02*	8.5-*0.335*	30	27

Ordering codes and description composition

Port size
VBD 38/Pa0.5-8
Opening pressure D1-D2 (bar)



Port size
VBD/VP 38/Pa0.5-15
Opening pressure D1-D2 (bar)



VBD complete valves

TYPE	CODE	DESCRIPTION
VBD 38/Pa0.5-8	1313020100	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*, G3/8 ports
VBD 12/Pa0.5-8	1313030100	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*, G1/2 ports
VBD 34/Pa0.5-8	1313040100	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*, G3/4 ports
VBD 38/Pa0.5-8/SAE	1313020100	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*, G3/8 ports

For configurations with special opening pressure or SAE threads please contact our Sales Dpt.

VBD/VP complete valves

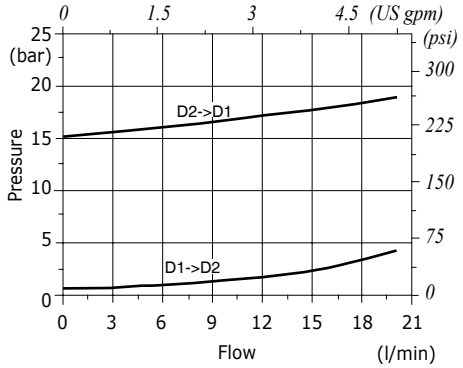
TYPE	CODE	DESCRIPTION
Only G3/8 port configuration		
VBD/VP 38/Pa0.5-15	1313020902	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 15 bar *(217 psi)*
VBD/VP 38/Pa0.5-20	1313020907	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 20 bar *(290 psi)*
VBD/VP 38/Pa0.5-40	1313020900	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 40 bar *(580 psi)*
VBD/VP 38/Pa0.5-60	1313020905	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 60 bar *(870 psi)*
VBD/VP 38/Pa0.5-80	1313020901	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 80 bar *(1160 psi)*
SAE8 port configuration		
VBD/VP 38/Pa0.5-40/SAE	1313020909	Steel body, opening pressure 0.5 bar *(7.25 psi)* and 40 bar *(580 psi)*

For configurations with special opening pressure or SAE threads please contact our Sales Dpt.

Rating diagrams

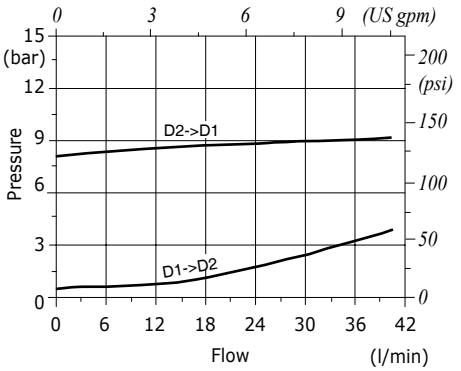
VBD/VP 38 pressure drop vs. flow

Opening pressure 0.5 bar *(7.25 psi)* and 15 bar *(217 psi)*



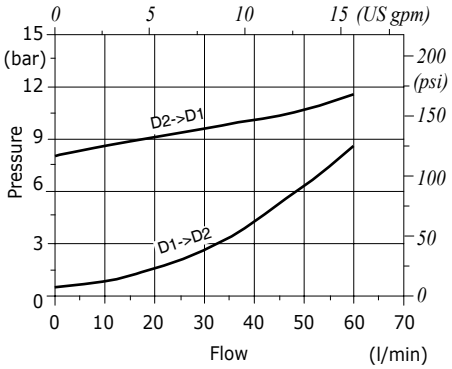
VBD 38 pressure drop vs. flow

Opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*



VBD 12 pressure drop vs. flow

Opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*



VBD 34 pressure drop vs. flow

Opening pressure 0.5 bar *(7.25 psi)* and 8 bar *(116 psi)*

