

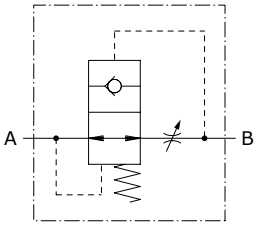
Type VB
check valves

- Hose burst valve
- Automatic stop for sudden flow increase

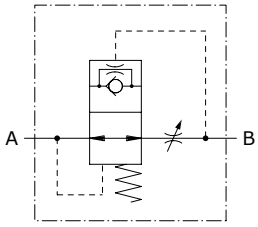
Technical specifications and diagrams are measured with mineral oil ISO VG32 at 40°C *(104°F)* temperature.

		VB 14	VB 38	VB 12	VB 34	VB 100
Max. flow		30 l/min *(7.9 US gpm)*	45 l/min *(11.9 US gpm)*	65 l/min *(17.2 US gpm)*	170 l/min *(44.9 US gpm)*	225 l/min *(59.4 US gpm)*
Max. pressure		350 bar *(5100 psi)*				
Fluid		mineral based oil				
Viscosity		10-200 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*	0.01 kg *(0.022 lb)*	0.015 kg *(0.033 lb)*	0.025 kg *(0.055 lb)*	0.045 kg *(0.099 lb)*	0.098 kg *(0.22 lb)*

*NOTES - **Replace the valve after each operation**. For different conditions, please contact Walvoil Sales Dpt.*



With metering hole

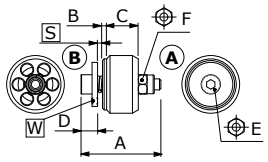


NOTE - For valve with optional calibration hole, please contact our Sales Dpt.

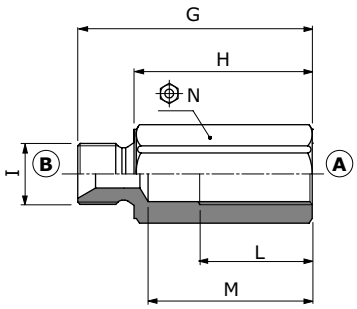
Dimension

Valve type	All ports
VB 14	G 1/4
VB 38	G 3/8
VB 12	G 1/2
VB 34	G 3/4
VB 100	G 1

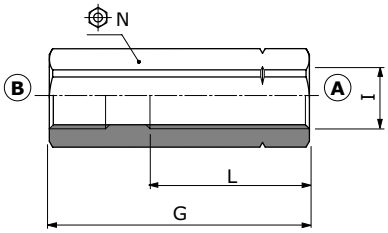
Type VB



Housing type VB/M



Housing type VB/F



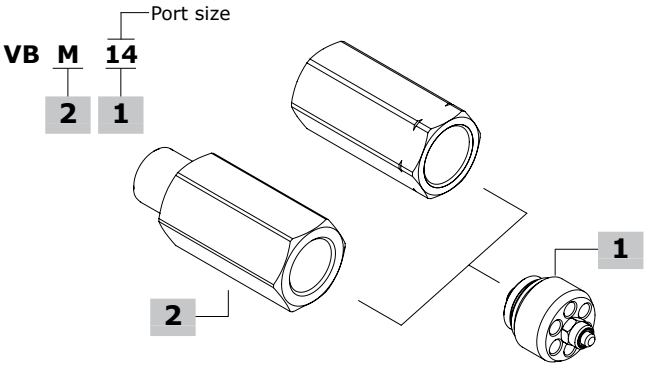
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F
VB 14	19 *0.75*	1 *0.039*	7 *0.27*	5 *0.2*	5.5	2.5
VB 38	23 *0.9*	1.5 *0.059*	9.5 *0.37*	5 *0.2*	5.5	2.5
VB 12	29 *1.14*	1.5 *0.059*	11.5 *0.45*	6 *0.23*	7	3
VB 34	34 *1.34*	2.5 *0.098*	15.5 *0.61*	6 *0.23*	7	3
VB 100	40 *1.57*	1.5 *0.059*	18.5 *0.73*	8.5 *0.33*	8	4

NOTE - The setting of **S** is recommended to be 1.5 - 2 times the maximum descent flow
W= optional calibration hole

Housing type		G	H	I	L	M	N
M	**01**	50 - *1.97*	38 - *1.50*	G 1/4	23 - *0.9*	31 - *1.22*	19
	02	60 - *2.36*	48 - *1.89*	G 3/8	30 - *1.18*	43 - *1.69*	22
	03	63 - *2.48*	49 - *1.93*	G 1/2	33 - *1.30*	45 - *1.77*	27
	04	75 - *2.95*	59 - *2.32*	G 3/4	36 - *1.42*	50 - *1.97*	32
	05	88 - *3.46*	70 - *2.75*	G 1	46 - *1.81*	60 - *2.36*	41
F	**01**	50 - *1.97*	-	G 1/4	20 - *0.79*	-	19
	02	58 - *2.28*	-	G 3/8	27 - *1.06*	-	22
	03	60 - *2.36*	-	G 1/2	33 - *1.30*	-	27
	04	76 - *2.99*	-	G 3/4	36 - *1.42*	-	32
	05	*85 - 3.35*	-	G 1	46 - *1.81*	-	41

Ordering codes and description composition



VB complete valves

Chartridge with steel housing

TYPE	CODE	DESCRIPTION
VB/M 14 S=1	1431210100	Male-female G1/4 ports
VB/F 14 S=1	1431110100	Female-female G1/4 ports
VB/M 38 S=1,5	1431220100	Male-female G3/8 ports
VB/F 38 S=1,5	1431120100	Female-female G3/8 ports
VB/M 12 S=1,8	1431230100	Male-female G1/2 ports
VB/F 12 S=1,8	1431130100	Female-female G1/2 ports
VB/M 34 S=2,2	1431240100	Male-female G3/4 ports
VB/F 34 S=2,2	1431140100	Female-female G3/4 ports
VB/M 100 S=2,6	1431250100	Male-female G1 ports
VB/F 100 S=2,6	1431150100	Female-female G1 ports

For different configurations, SAE thread and valve with optional calibration hole, please contact our Sales Dpt.

1 Cartridge

TYPE	CODE	DESCRIPTION
VB 14 S=1	1431010100	G1/4, "S" standard setting 1, standard flow rate 18.5 l/min *(4.89 US gpm)*
VB 38 S=1,5	1431020100	G3/8, "S" standard setting 1.5, standard flow rate 35.5 l/min *(9.38 US gpm)*
VB 12 S=1,8	1431030100	G1/2, "S" standard setting 1.9, standard flow rate 60 l/min *(15.85 US gpm)*
VB 34 S=2,2	1431040100	G3/4, "S" standard setting 2.2, standard flow rate 149 l/min *(39.36 US gpm)*
VB 100 S=2,6	1431050100	G1, "S" standard setting 2.6, standard flow rate 190 l/min *(50.19 US gpm)*

For different configurations or SAE thread please contact our Sales Dpt.

2 Housing

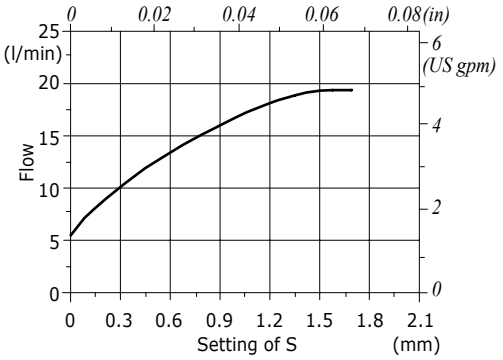
M-F (male-female) or F-F (female-female) steel housing

TYPE	CODE	DESCR.	TYPE	CODE	DESCR.
MF14	CMFVUBA01	G1/4, M-F	**MF04**	CMFVUBA04	G3/4, M-F
FF14	CFFVUBA-VSC01	G1/4, F-F	**FF04**	CFFVUBA04	G3/4, F-F
MF02	CMFVUBA02	G3/8, M-F	**MF05**	CMFVUBA05	G1, M-F
FF02	CFFVUBA02	G3/8, F-F	**FF05**	CFFVUBA04	G1, F-F
MF03	CMFVUBA03	G1/2, M-F			
FF03	CFFVUBA03	G1/2, F-F			

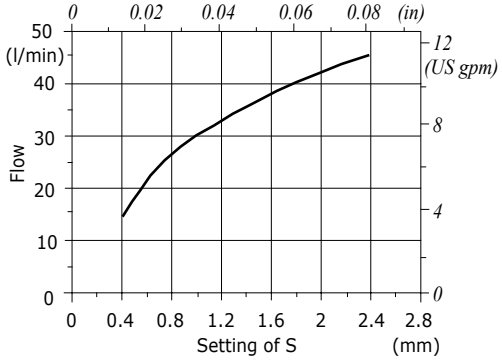
Rating diagrams

The diagrams represent nominal values measured by the manufacturer (with ±10% tolerance) which must be adapted to the customer's actual working conditions; please contact Walvoil Sales Dpt.

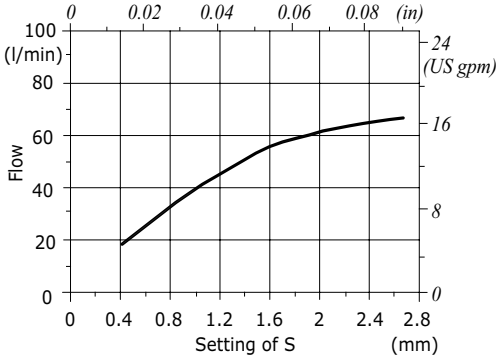
VB G 1/4 flow vs. setting of S



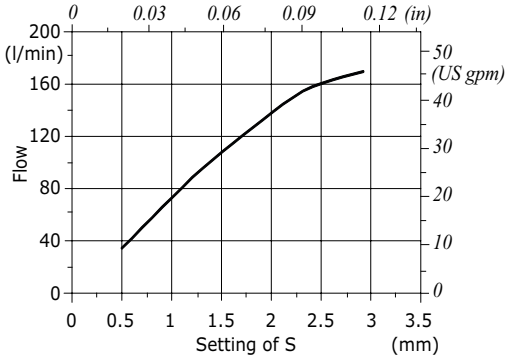
VB G 3/8 flow vs. setting of S



VB G 1/2 flow vs. setting of S



VB G 3/4 flow vs. setting of S



VB G 1 flow vs. quote S

