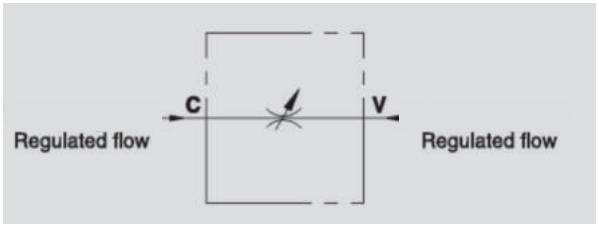
BARREL TYPE BIDIRECTIONAL FLOW CONTROL VALVES

VRB

Flow Upto 160 LPM
Pressure 300 Bar



Hydraulic Symbol

Description & Operation

These valve is used to adjust flow speed of actuators in both directions. Pressure compensation is not provided, flow rate deepends on pressure and oil viscosity.
Connect V to the pressure flow and C to the actutor to be controlled. The flow is adjusted from C to V and free in the reverse direction. When used on actuators with double pilot check valve, the VRB has to be mounted between the actuator and the double pilot check valve. Flow adjustnents are made by rotating the couping: clockwise rotation iincreases the flow and vice versa. Once the flow has been set, tighten the lock nut in order to keep the desired setting in case of vibrations.

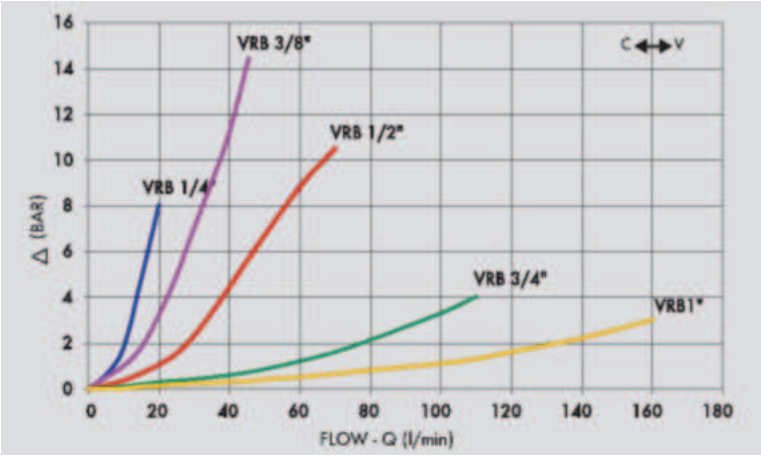
Technical Data

Maximum Flow	160 LPM
Maximum Pressure	300 Bar
Body Material	Steel
Internal parts	Hardened and Ground steel
External Component treatment	Zn/Fe - standard (96h) / Zn/Ni (720h)
Oil Temperature	50 Deg. C
Fluids	Mineral based or synthetics with lubricating properties
Viscosity	30 cSt
Standard Sealing	NBR-Buna N
Filteration	20/18/15 ISO 4406 (Max. Filteration admitted)
Orientation / Mounting	Inline
Weight	See Ordering details

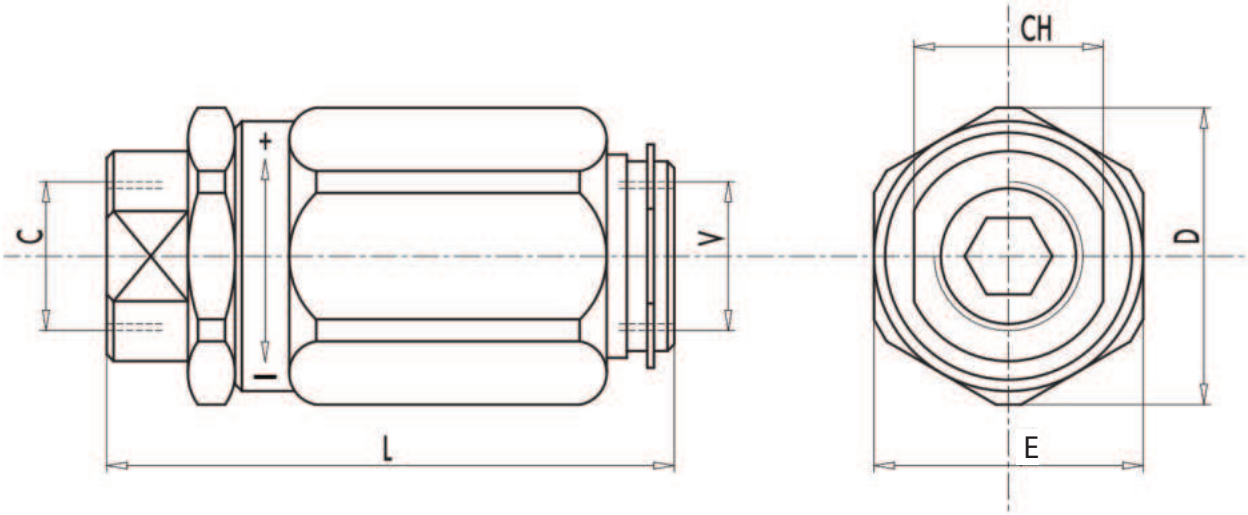
Specifications

Type	Max.Flow	Max.Pressure
	LPM	Bar
VRB 1/4"	20	300
VRB 3/8"	45	300
VRB 1/2"	70	300
VRB 3/4"	110	250
VRB 1"	160	250

Performance Curve



Dimensional Drawing



Ordering Details

Code	Type	V-C	L	L1	CH	D	Weight
		GAS	mm	mm	mm	mm	Kg
R-V0545	VRB 1/4"	G1/4"	66.5	30	19	34	0.266
R-V0555	VRB 3/8"	G 3/8"	73	32	24	36	0.312
R-V0565	VRB 1/2"	G1/2"	80	38	27	42	0.456
R-V0575	VRB 3/4"	G3/4"	95	46	32	51	0.784
R-V0585	VRB 1"	G 1"	109	55	41	60	1.222