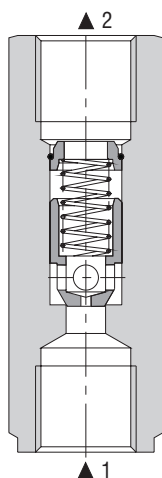


Check Valve with One-Way Throttling, Poppet Type

VJS3

Size 06, 10 • Q_{max} 60 l/min (15.9 GPM) • p_{max} 320 bar (4600 PSI)

Model G1, M1

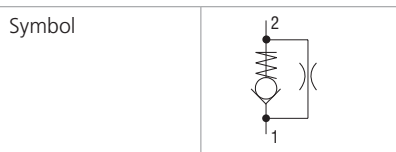


Technical Features

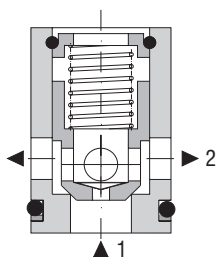
- › Check valve, one-way throttling, poppet type, guided in-line mounted or slip-in cartridge
- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Wide range of orifice diameters available
- › Optional bias spring ranges for back-pressure control
- › High flow capacity
- › In the standard version, the surface of the valves for in-line mounting is zinc-coated for 240 h protection acc. to ISO 9227. Slip-in cartridges (Model 03) are without surface treatment.

Functional Description

An in-line or slip-in hydraulic check valve including a by-pass throttling orifice. The valve has a poppet which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2. In the direction from port 2 to 1 the flow is restricted by the orifice.



Model 03



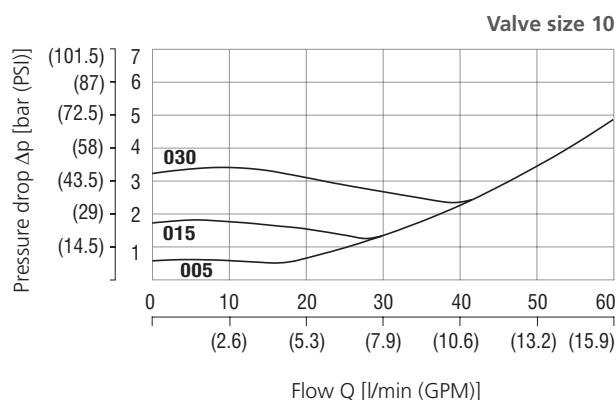
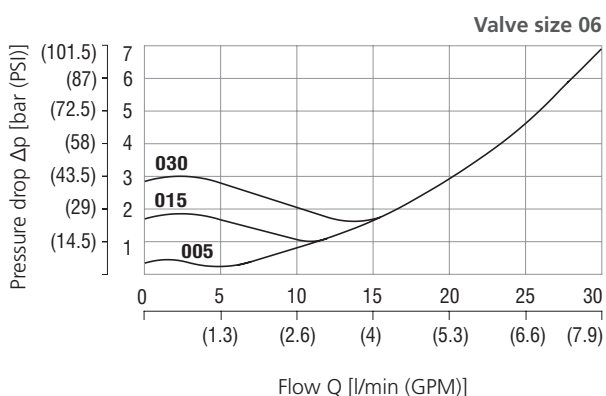
Technical Data

Valve size		06		10	
Max. flow	l/min (GPM)	30 (7.9)		60 (15.9)	
Max. operating pressure	bar (PSI)	320 (4640)			
Cracking pressure	bar (PSI)	0.5 (7.25)	1.5 (21.8)	3.0 (43.5)	5.0 (72.5)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)			
Weight	models G1, M1	0.11 (0.24)		0.34 (0.75)	
	model 03	0.05 (0.11)		0.09 (0.20)	

	Datasheet	Type
General information	GI_0060	Products and operating conditions
Cavity details	SMT_0019	
Spare parts	SP_8010	

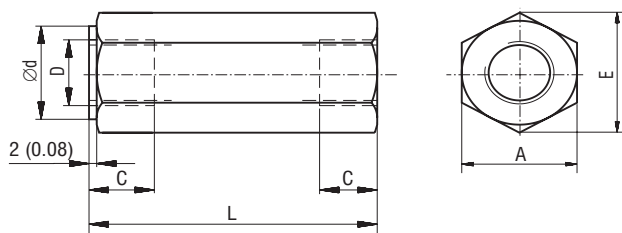
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure drop related to flow rate



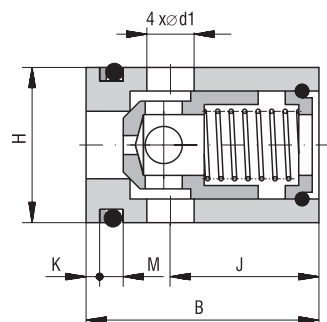
Dimensions in millimeters (inches)

Models G1, M1



Valve size	06	10
Dimensions	millimeters (inches)	
A	19 (0.75)	30 (1.18)
E	22 (0.87)	34.5 (1.36)
L	58 (2.28)	72 (2.83)
C	12 (0.47)	14 (0.55)
D	G1	G 1/4
	M1	M14x1.5
Ød	19 (0.75)	30 (1.18)

Model 03



Valve size	06	10
Dimensions	millimeters (inches)	
Ød1	3.5 (0.14)	5.5 (0.22)
H	Ø 20 (0.79) f8	Ø 25 (0.98) f8
J	18 (0.71)	20 (0.79)
K	1.6 (0.06)	1.6 (0.06)
M	4.4+0.2 (0.17+0.008)	4.4+0.2 (0.17+0.008)
B	27-0.2 (1.06-0.008)	32-0.2 (1.26-0.008)

Ordering Code

VJS3- [] - [] - [] - [] - []		Surface treatment	
Check valve with one-way throttling, poppet type	No designation	without surface treatment (model 03)	
	A	zinc-coated (ZnCr-3), ISO 9227 (240 h) (models G1, M1)	
Valve size	06	06	Orifice diameter
	10	10	
Cracking pressure without spring		000	0.50 mm (0.02 inch)
	0.5 bar (7.3 PSI)	005	0.80 mm (0.03 inch)
	1.5 bar (21.8 PSI)	015	1 mm (0.04 inch)
	3.0 bar (43.5 PSI)	030	1.5 mm (0.06 inch)
	5.0 bar (72.5 PSI)	050	
Installation	G1	in-line, with G threads	
	M1	in-line, with metric threads	
	03	slip-in cartridge (only size 06)	