

- Small dimensions
- Two models
- Poppet design
- Leak-free closure in one direction



VJO1-06/Sx-1

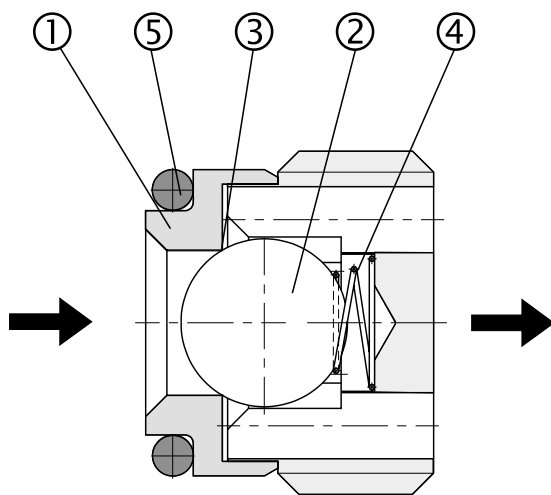


VJO1-06/Sx-2

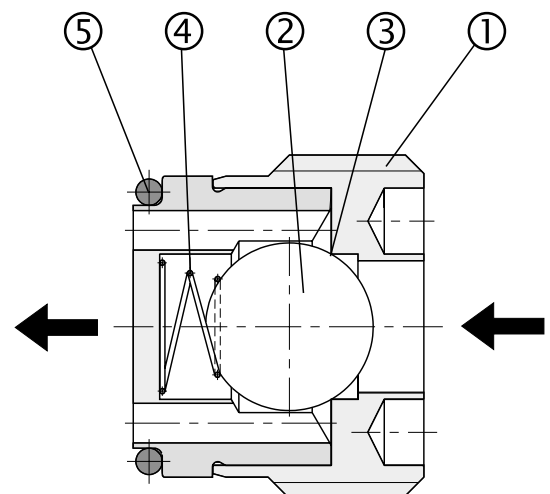
Functional Description

The check valves VJO1 are developed to be built directly into the lines of the hydraulic circuits. Their features designate them for all applications, where tight closure in one direction and small dimensions are required. The valve is provided with two holes for a mounting mandrel. The shut-off edge (3) of the valve is engineered in the housing (1) and the shut-off function

is accomplished by the ball (2) which is pushed onto the seat by spring (4). Sealing of the valve body (1) in the mounting cavity is provided by the sealing ring (5). During the assembly, the valve has to be secured against loosening by means of a suitable glue or cement (Loctite, etc.).



Model 01



Model 02

Order Code

VJO1-06/S -

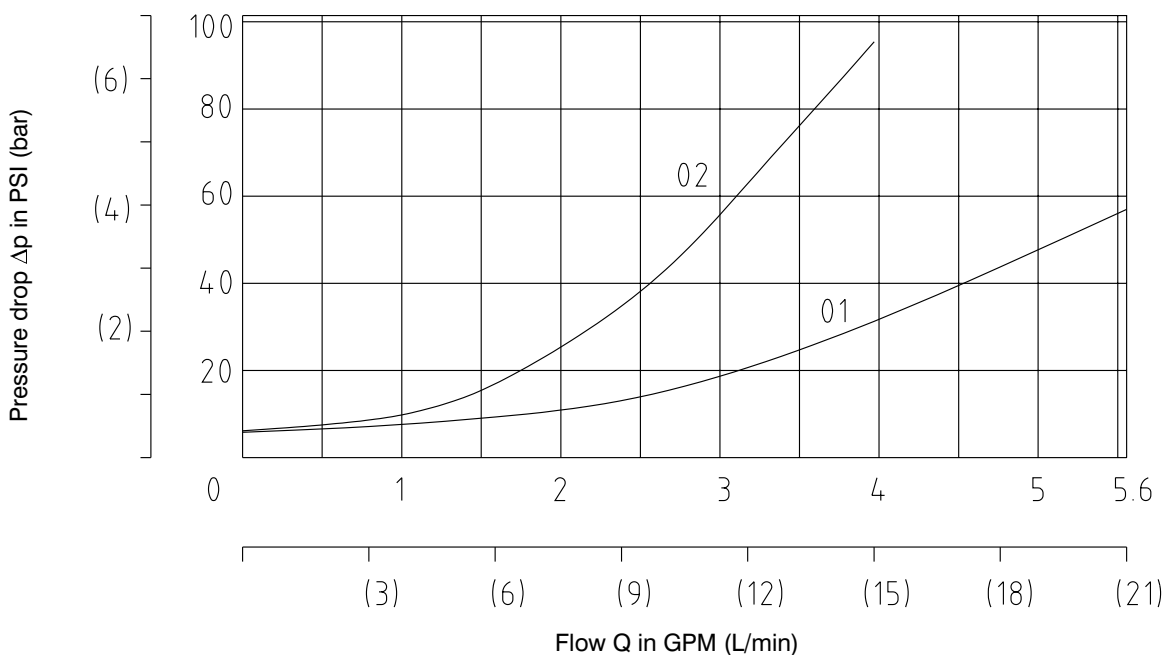
Check valve							
Valve size	1/4 (06)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">omit V</td> <td style="padding: 5px; text-align: right;">Seals NBR FPM (Viton)</td> </tr> </table>		omit V	Seals NBR FPM (Viton)		
omit V	Seals NBR FPM (Viton)						
Cartridge	S						
Thread pipe thread G1/4 thread SAE-5; 1/2-20 UNF-2A	G S	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">1</td> <td style="padding: 5px;">Flow direction model 01</td> </tr> <tr> <td style="text-align: center; padding: 5px;">2</td> <td style="padding: 5px;">model 02</td> </tr> </table>	1	Flow direction model 01	2	model 02	
1	Flow direction model 01						
2	model 02						

Technical Data

Valve size	US (mm)	1/4 (06)
Maximum flow rate	GPM (L/min)	5.28 (20)
Maximum operating pressure	PSI (bar)	4600 (320)
Cracking pressure	PSI (bar)	3.62 (0.25)
Hydraulic fluid		Petroleum oils (HM, HL, HLP) Phosphate ester fluids (HFD-R)
Fluid temperature range for standard sealing (NBR)	°F (°C)	-22 ... +176 (-30 ... +80)
Fluid temperature range for Viton seals (FPM)	°F (°C)	-4 ... +176 (-20 ... +80)
Viscosity range	SUS (mm ² /s)	98 ... 1840 (20 ... 400)
Maximum degree of fluid contamination		Class 21/18/15 to ISO 4406 (1999).
Weight	lbs (kg)	0.015 (0.007)
Mounting position		any

Δp-Q Characteristic

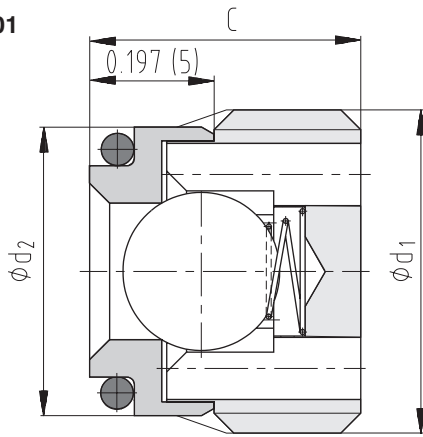
Measured at $v = 166 \text{ SUS (35 mm}^2/\text{s)}$ and $t = 104 \text{ °F (40 °C)}$



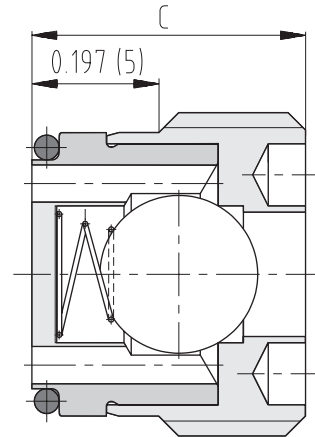
Valve Dimensions

Dimensions in inches and millimeters (in brackets)

Model 01



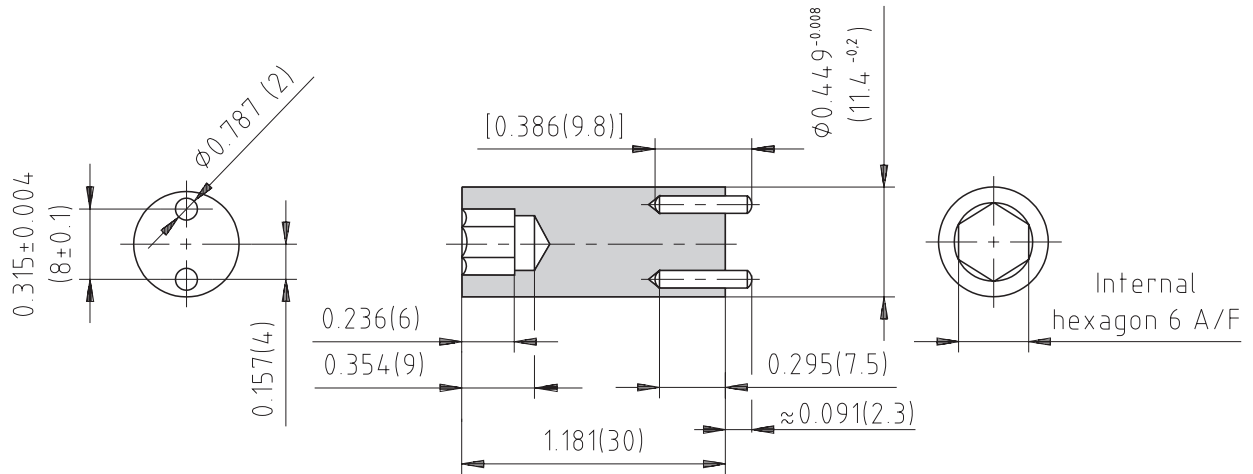
Model 02



Type	ϕd_1	ϕd_2	C	O-Ring
VJO1-06/SG-1	G1/4	0.449 ^{+0.002} (11.4 ^{+0.05})	0.433 (11)	8 x 1.5
VJO1-06/SS-1	1/2-20 UNF-2A			
VJO1-06/SG-2	G1/4	0.449 ^{+0.002} (11.4 ^{+0.05})	0.433 (11)	9 x 1
VJO1-06/SS-2	1/2-20 UNF-2A			

Mounting Mandrel

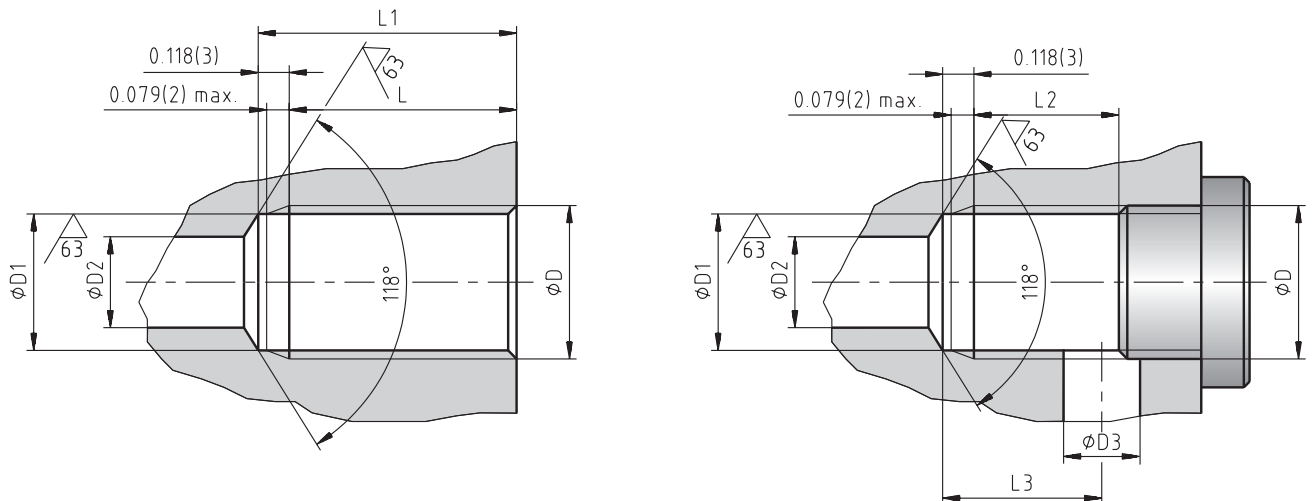
Dimensions in inches and millimeters (in brackets)



Type	Tightening torque	Order number
VJO1-06	11.13 ft-lbs (15 Nm)	530-0506

Mounting Cavity

Dimensions in inches and millimeters (in brackets)

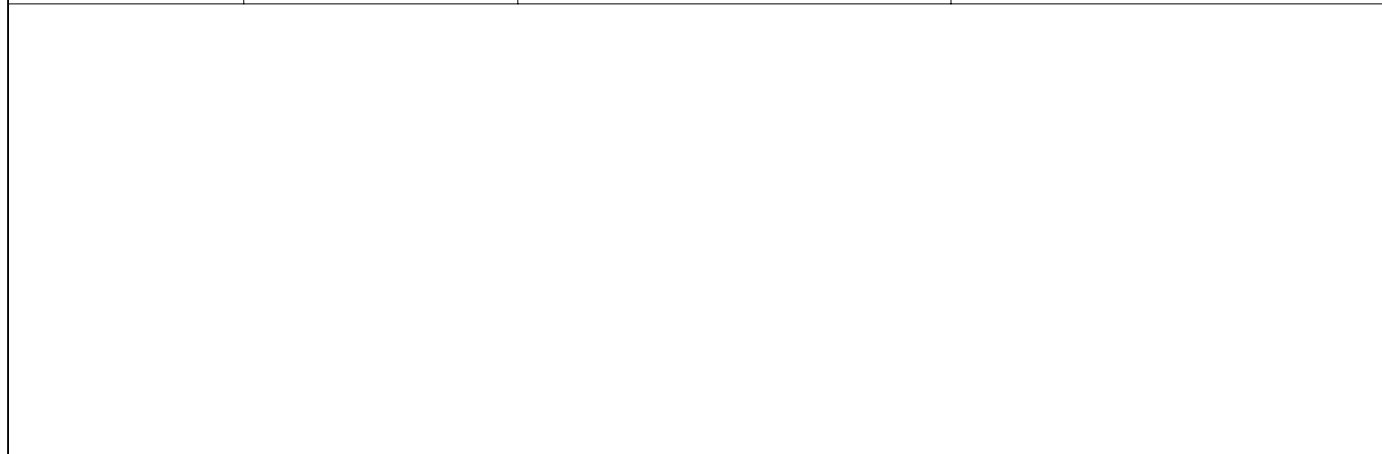


Type	ϕD	ϕD_1	ϕD_2	ϕD_3	L	L1	L2	L3
VJO1-06	G1/4; 1/2-20 UNF-2B	0.453 ^{+0.004} (11.5 ^{+0.1})	max. 0.276 (7)	0.236 (6)	0.787 (20)	0.906 (23)	0.551 (14)	0.551 (14)

Spare Parts	Dimensions in millimeters
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Seal kit			
	Type	Dimension, quantity	Order number
Standard NBR90	VJO1-06/SG-1	O-ring 8 x 1.5 (1 pc.)	530-0516
	VJO1-06/SG-2	O-ring 9 x 1 (1 pc.)	530-0517
Viton	VJO1-06/SG-1	O-ring 8 x 1.5 (1 pc.)	530-0518
	VJO1-06/SG-2	O-ring 9 x 1 (1 pc.)	530-0519

Spare Parts kit			
	Type	Dimensions, quantity	Order number
Standard NBR	VJO1-06/SS-1	Seat (1 pc.) Bullet D 6.35 (1 pc.) Spring (1 pc.) O-ring 8 x 1.5 (1 pc.) Body (1 pc.)	530-0512
	VJO1-06/SS-2	Stay (1 pc.) Bullet D 6.35 (1 pc.) Spring (1 pc.) O-ring 9 x 1 (1 pc.) Body (1 pc.)	530-0513
Viton	VJO1-06/SS-1	Seat (1 pc.) Bullet D 6.35 (1 pc.) Spring (1 pc.) O-ring 8 x 1.5 (1 pc.) Body (1 pc.)	530-0514
	VJO1-06/SS-2	Stay (1 pc.) Bullet D 6.35 (1 pc.) Spring (1 pc.) O-ring 9 x 1 (1 pc.) Body (1 pc.)	530-0515



Notes:

- The plastic packaging is recyclable.
- Certified documentation is available per request.

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