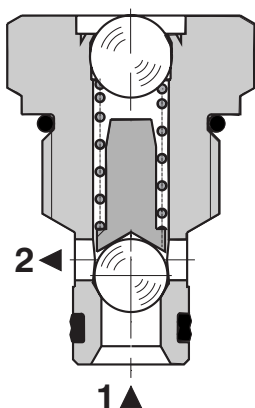


Check Valve, Ball Type

SC1F-A2

3/4-16 UNF • Q_{max} 40 l/min (11 GPM) • p_{max} 420 bar (6100 PSI)



Technical Features

- > Hardened precision parts
- > Sharp-edged steel seats for dirt-tolerant performance
- > Leak-free closing, suitable for fast cycling with long life
- > High flow capacity
- > Optional bias spring ranges for back-pressure control
- > In the standard version, the valve is zinc-coated for 520 h protection acc. to ISO 9227

Functional Description

A hydraulic check valve in the form of a screw-in cartridge-style for use as a blocking or load-holding device. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2.



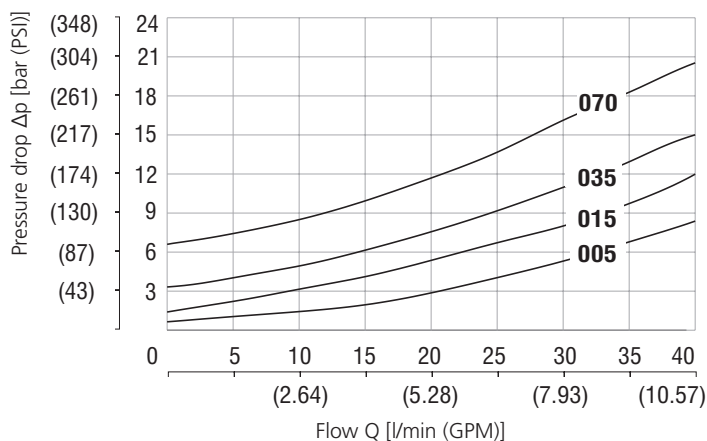
Technical Data

Valve size / Cartridge cavity		3/4-16 UNF-2A / A2 (C-8-2)			
Max. flow	l/min (GPM)	40 (10.6)			
Max. operating pressure	bar (PSI)	420 (6090)			
Cracking pressure	bar	0.5	1.5	3.5	7.0
	(PSI)	(7.3)	(21.8)	(50.8)	(101.5)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)			
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)			
Weight	kg (lbs)	0.06 (0.13)			

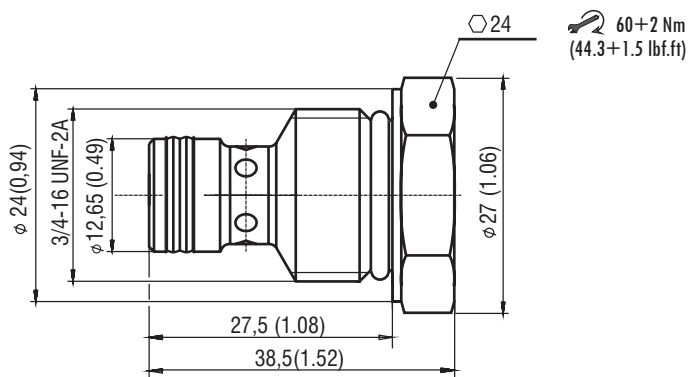
		Datasheet	Type
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-A2*
	Sandwich mounted	SB-04(06)_0028	SB-*A2*
Cavity details / Form tools		SMT_0019	SMT-A2*
Spare parts		SP_8010	

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

Pressure drop related to flow rate



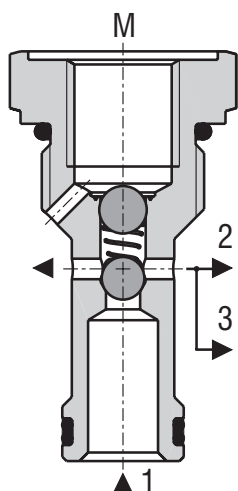
Dimensions in millimeters (inches)



Ordering Code

	SC1F - A2 / H	<input type="checkbox"/>	<input type="checkbox"/>	- B	
Check valve, ball type					
Valve cavity 3/4-16 UNF (C-8-2)					
Model High performance					
		000			
		002			
		005			
		015			
		035			
		070			
				No designation V	
					Surface treatment zinc-coated (ZnNi), ISO 9227 (520 h)
					Seals NBR FPM (Viton)
					Cracking pressure without spring 0.2 bar (2.9 PSI) 0.5 bar (7.3 PSI) 1.5 bar (21.8 PSI) 3.5 bar (50.8 PSI) 7.0 bar (101.5 PSI)

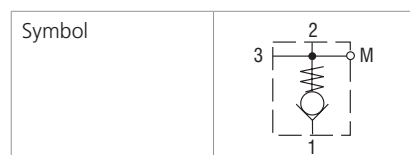
Check Valve With Pressure Gauge Port
SC1F-A3

 3/4-16 UNF • Q_{max} 20 l/min (5 GPM) • p_{max} 350 bar (5100 PSI)

Technical Features

- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › Integrated pressure gauge port G 1/4" or SAE
- › In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

Functional Description

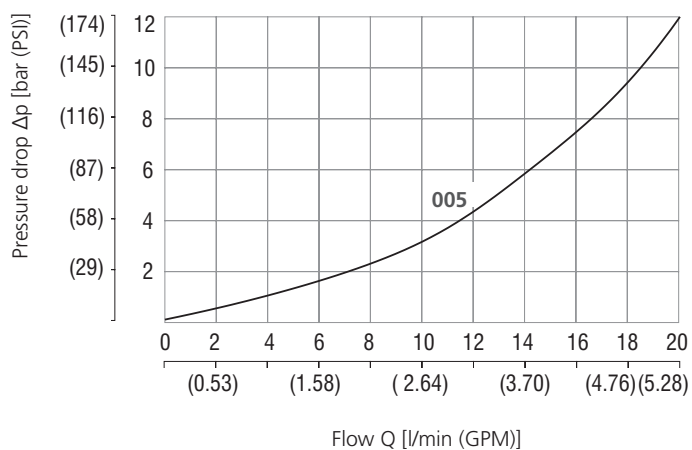
A hydraulic check valve in the form of a screw-in cartridge for use in 3-way cavity. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2.


Technical Data

Valve size / Cartridge cavity		3/4-16 UNF-2A / A3 (C-8-3)
Max. flow	l/min (GPM)	20 (5.3)
Max. operating pressure	bar (PSI)	350 (5080)
Cracking pressure	bar (PSI)	0.5 (7.3)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)
Mass	kg (lbs)	0.05 (0.11)

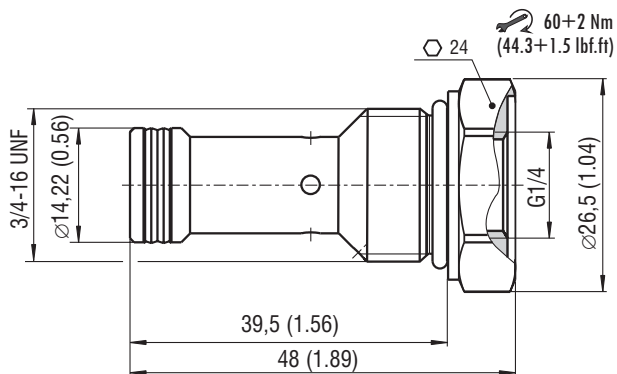
		Datasheet	Type
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-A3*
	Sandwich mounted	SB-04(06)_0028	SB-*A3*
Cavity details / Form tools		SMT_0019	SMT-A3*
Spare parts		SP_8010	

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

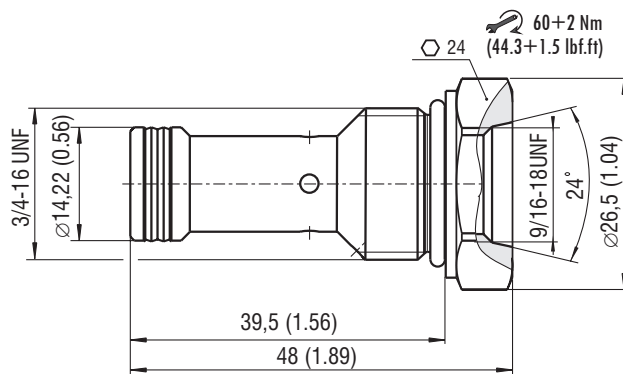
Pressure drop related to flow rate


Dimensions in millimeters (inches)

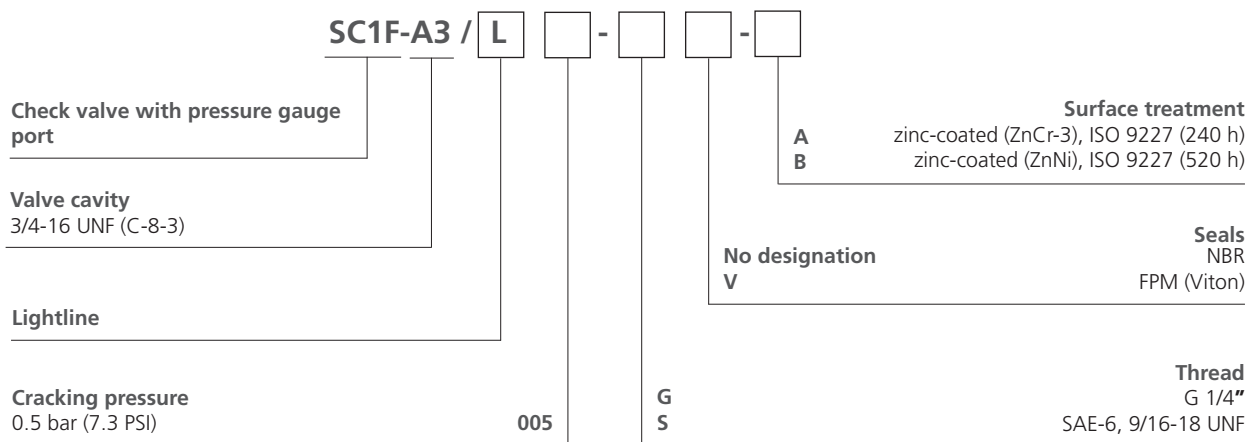
Model G

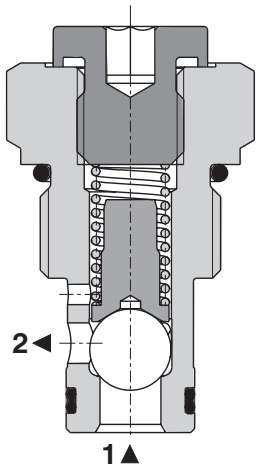


Model S



Ordering Code



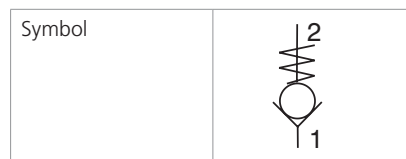


Technical Features

- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › High flow capacity
- › Optional bias spring ranges for back-pressure control
- › In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

Functional Description

A hydraulic check valve in the form of a screw-in cartridge for use as a blocking or load-holding device. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2.



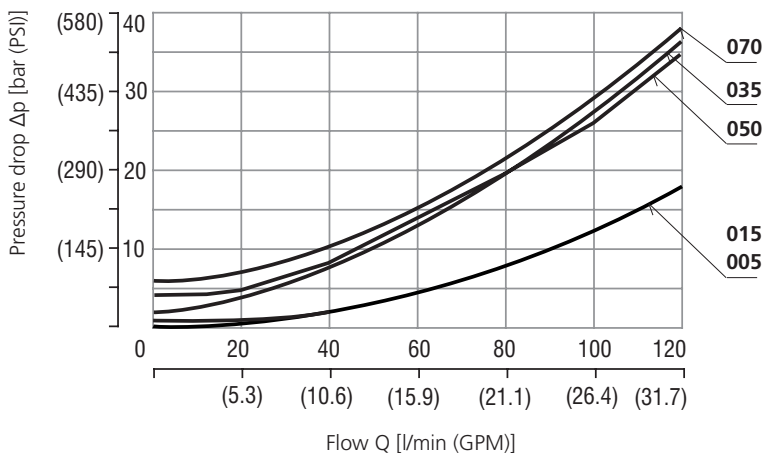
Technical Data

Valve size / Cartridge cavity		7/8-14 UNF-2A / B2				
Max. flow	l/min (GPM)	120 (31.7)				
Max. operating pressure	bar (PSI)	420 (6090)				
Cracking pressure	bar	0.5	1.5	3.5	5.0	7.0
	(PSI)	(7.3)	(21.8)	(50.8)	(72.5)	(101.5)
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22 ... +212)				
Fluid temperature range (FPM)	°C (°F)	-20 ... +120 (-4 ... +248)				
Mass	kg (lbs)	0.12 (0.27)				

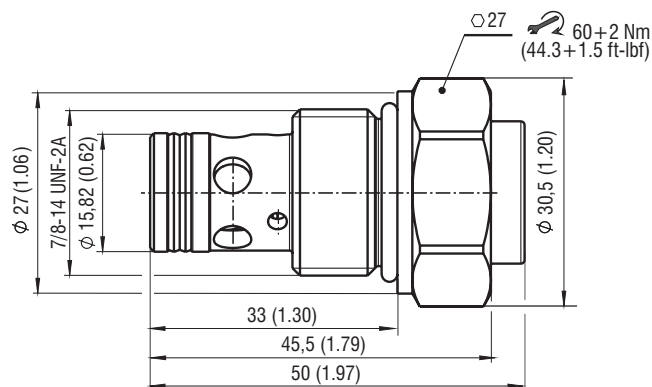
		Datasheet	Type
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-B2*
	Sandwich mounted	SB-04(06)_0028	SB-*B2*
Cavity details / Form tools		SMT_0019	SMT-B2*
Spare parts		SP_8010	

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

Pressure drop related to flow rate



Dimensions in millimeters (inches)



Ordering Code

SC1F-B2 / -

Check Valve, ball-type
7/8-14 UNF

No designation
V

Surface treatment
A zinc-coated (ZnCr-3), ISO 9227 (240 h)
B zinc-coated (ZnNi), ISO 9227 (520 h)

Seals
NBR
FPM (Viton)

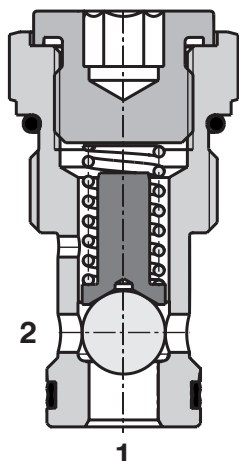
High performance

H

Cracking pressure
without spring
0.2 bar (2.92 PSI)
0.5 bar (7.3 PSI)
1.0 bar (14.6 PSI)
1.5 bar (21.8 PSI)
2.0 bar (29.2 PSI)
3.5 bar (50.8 PSI)
5.0 bar (73 PSI)
7.0 bar (101.5 PSI)

SC1F-C2

1-1/16-12 UN • Q_{max} 150 l/min (40 GPM) • p_{max} 350 bar (5100 PSI)



Technical Features

- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › High flow capacity
- › Optional bias spring ranges for back-pressure control
- › In the standard version, the valve is zinc-coated for 520 h protection acc. to ISO 9227

Functional Description

A hydraulic check valve in the form of a screw-in cartridge for use as a blocking or load-holding device. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2.



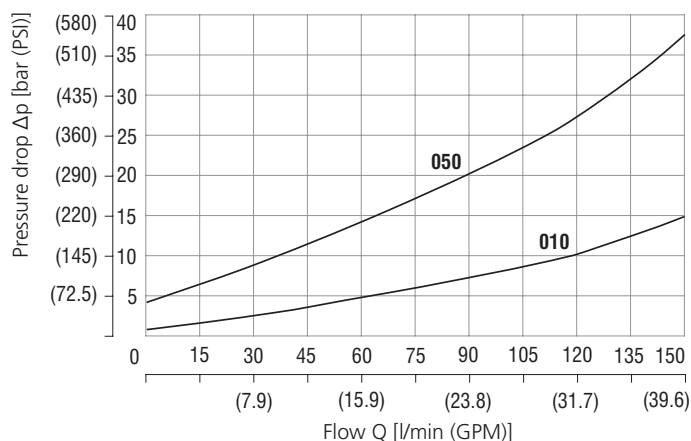
Technical Data

Valve size / Cartridge cavity		1-1/16-12 UN / C2 (C-12-2)	
Max. flow	l/min (GPM)	150 (39.6)	
Max. operating pressure	bar (PSI)	350 (5080)	
Cracking pressure	bar (PSI)	1 (14.5)	5 (72.5)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)	
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)	
Weight	kg (lbs)	0.182 (0.40)	

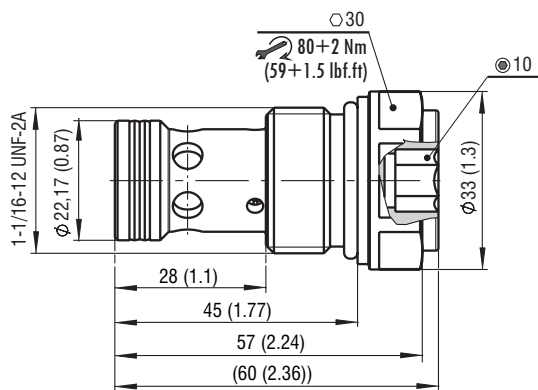
	Datasheet	Type
General information	GI_0060	Products and operating conditions
Valve bodies In-line mounted	SB_0018	SB-C2*
Cavity details / Form tools	SMT_0019	SMT-C2*
Spare parts	SP_8010	

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

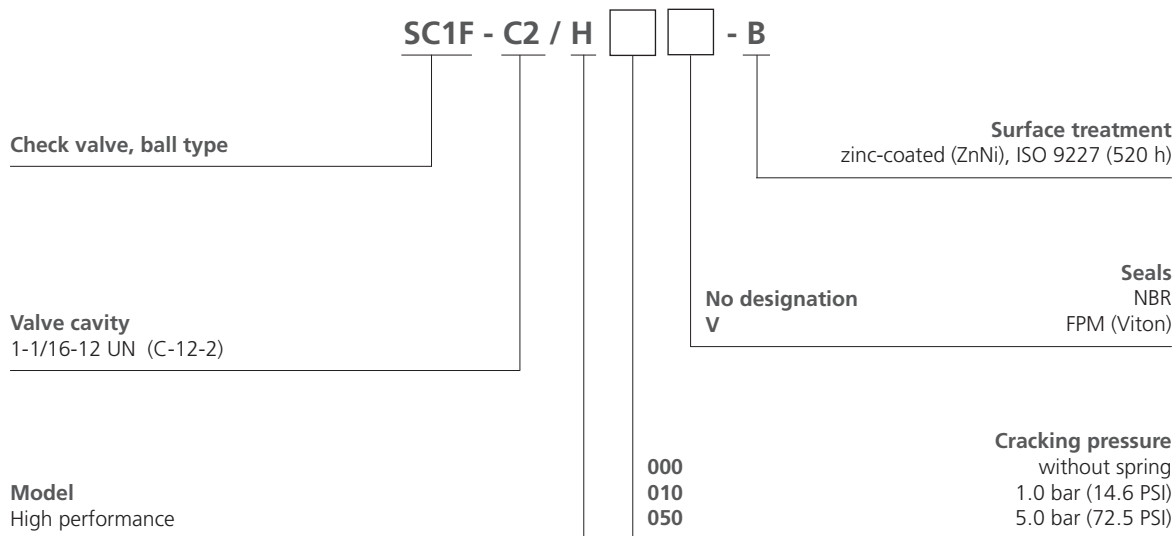
Pressure drop related to flow rate



Dimensions in millimeters (inches)

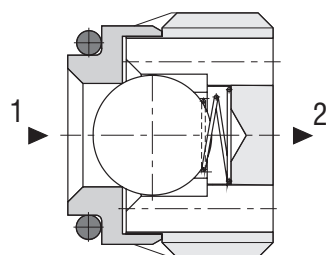


Ordering Code



Check Valve, Ball Type
VJO1-06/S

 Size 06 • Q_{max} 20 l/min (5 GPM) • p_{max} 320 bar (4600 PSI)

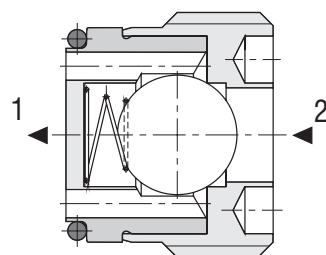
Model 01

Technical Features

- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › Compact design for limited installation space availability
- › High flow capacity
- › In the standard version, the valve is without surface coating

Functional Description

A hydraulic check valve in the form of a screw-in cartridge-style for use as a blocking or load-holding device. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1(2) to open flow to port 2(1).

During the assembly, the valve has to be secured against loosening by means of a suitable glue or cement (Loctite, etc.).

Model 02


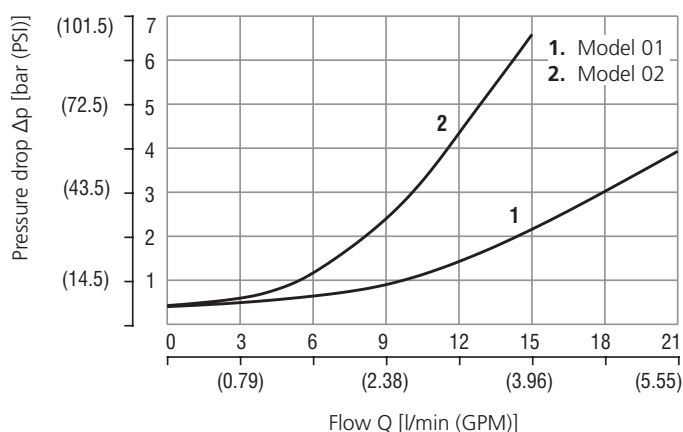
Symbol	Model 01	Model 02

Technical Data

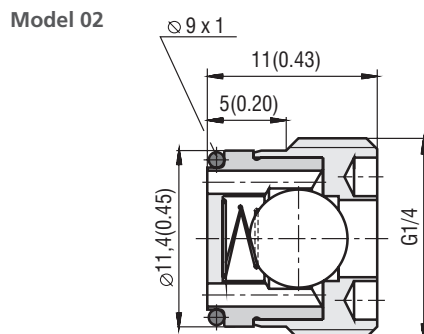
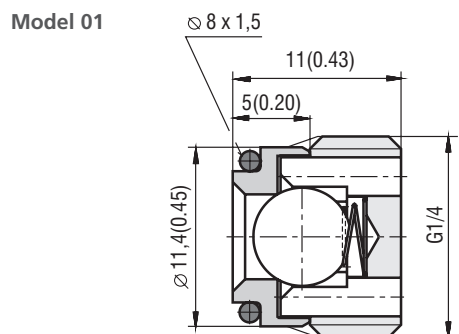
Valve size		06
Max. flow	l/min (GPM)	20 (5.3)
Max. operating pressure	bar (PSI)	320 (4640)
Cracking pressure	bar (PSI)	0.25 (3.62)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)
Mass	kg (lbs)	0.007 (0.015)

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

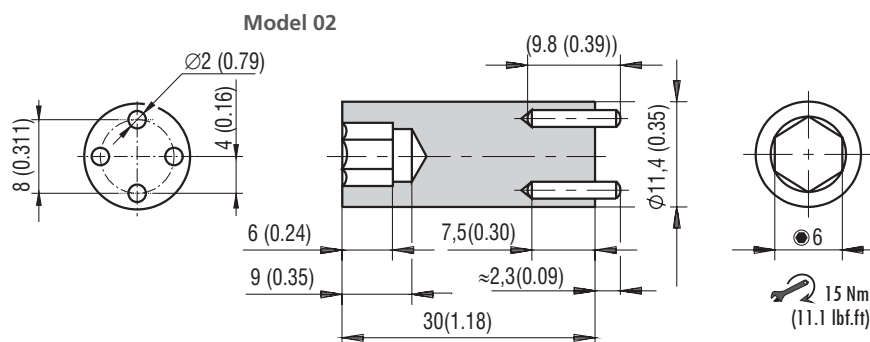
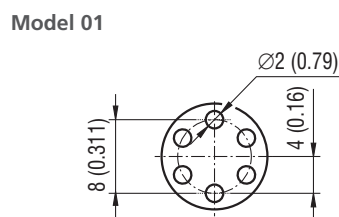
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure drop related to flow rate


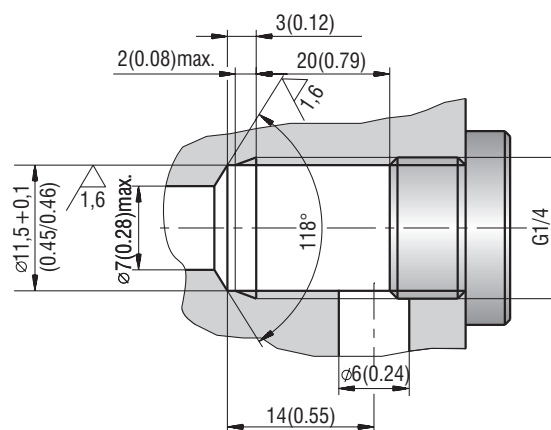
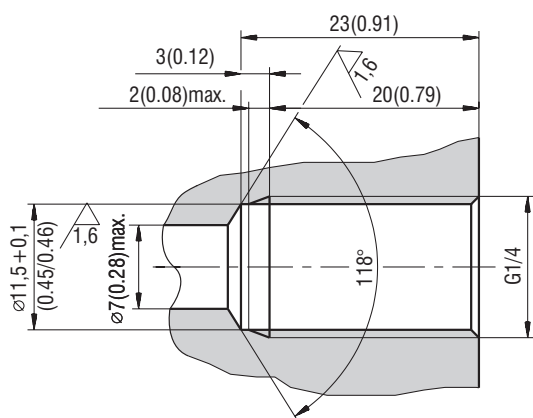
Dimensions in millimeters (inches)



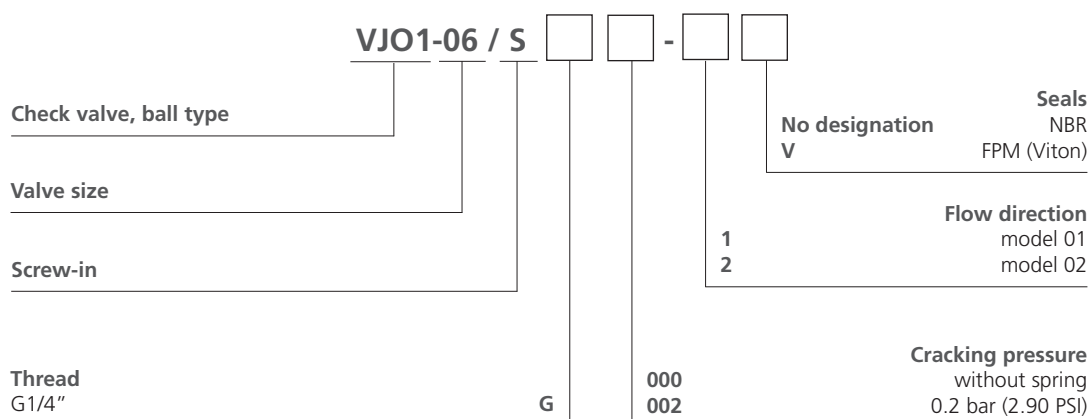
Mounting Tool in millimeters (inches)



Cavity in millimeters (inches)



Ordering Code



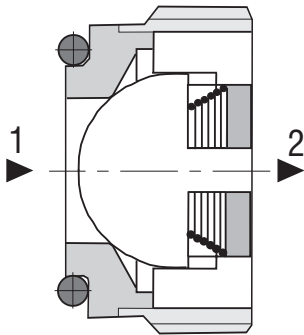
Check Valve, Ball-type

VJO1-10/S

Size 10 / M20x1.5 • Q_{max} 80 l/min (21 GPM) • p_{max} 350 bar (5100 PSI)

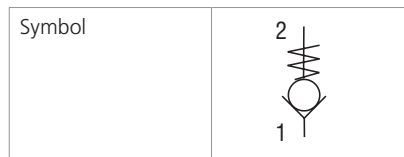
Technical Features

- › Hardened precision parts
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › Compact design for limited installation space availability
- › High flow capacity
- › In the standard version, the valve is without surface coating



Functional Description

A hydraulic check valve in the form of a screw-in cartridge-style for use as a blocking or load-holding device. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2.



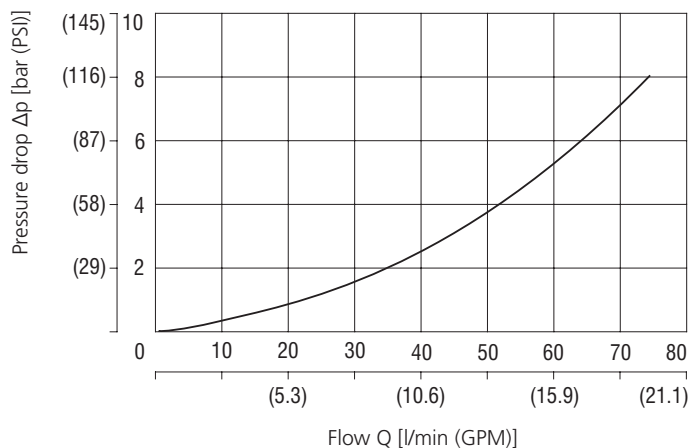
Technical Data

Valve size		10 / M20x1.5
Max. flow	l/min (GPM)	80 (21.1)
Max. operating pressure	bar (PSI)	350 (5076)
Cracking pressure	bar (PSI)	0.5 (7.25)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)
Mass	kg (lbs)	0.017 (0.038)

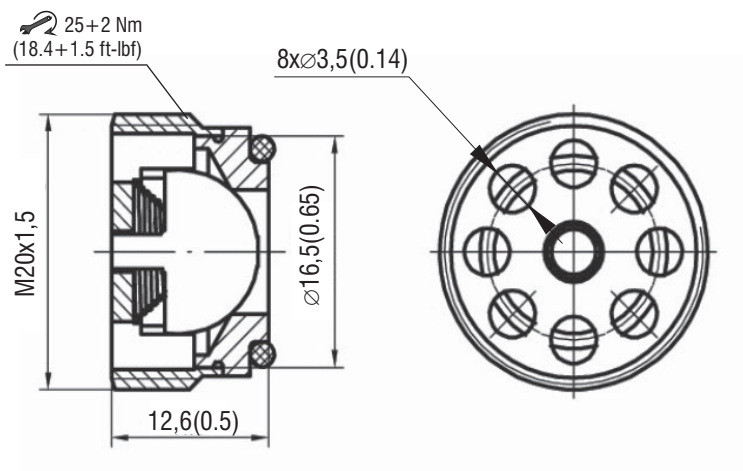
	Datasheet	Type
General information	GI_0060	Products and operating conditions
Spare parts	SP_8010	

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

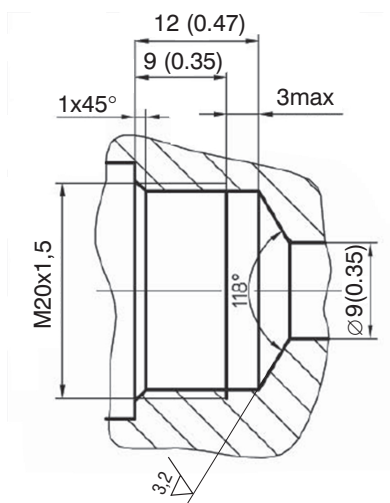
Pressure drop related to flow rate



Dimensions in millimeters (inches)



Cavity in millimeters (inches)



Ordering Code

	VJO1-10 / S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check Valve, ball-type					
Valve size				No designation V	Seals NBR FPM (Viton)
Screw-in					
Thread M20x1.5		M		005	Cracking pressure 0.5 bar (7.30 PSI)