

General Description

Series C5V direct operated check valves provide free flow in one direction and block the flow in the counter direction.

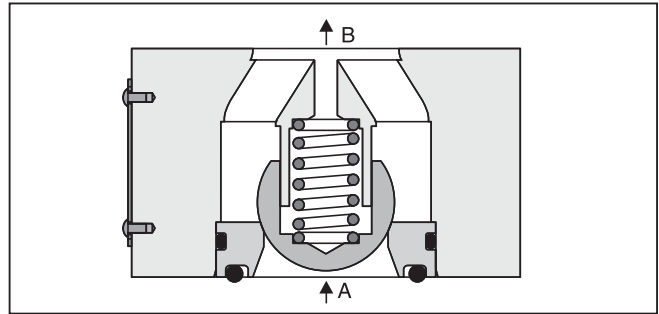
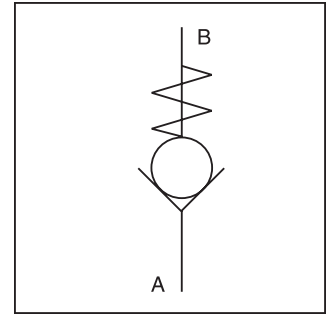
The SAE flanges allow to mount the C5V directly on the pressure port of pumps for protection against pressure shocks from the system.

Operation

The ball is held on its seat by a spring under zero pressure condition. When flow is increased to the cracking pressure, free flow is allowed from port A to port B. Blocked flow is created when operating pressure and spring on Port B exceed pressure on port A.

Features

- Direct operated check valve.
- SAE 61 and SAE 62 flanges.
- 4 sizes (SAE 3/4", 1", 1 1/4", 1 1/2").
- 3 springs.
- 2 different seal configurations.



Ordering Information

C5V Direct Operated Check Valve	<input type="checkbox"/> Size	<input type="checkbox"/> Flange	<input type="checkbox"/> Body Sealing	<input type="checkbox"/> Cracking Pressure	<input type="checkbox"/> Design Series	<input type="checkbox"/> Seal	<input type="checkbox"/> Options
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Code	Description
06	SAE 3/4"
08	SAE 1"
10	SAE 1 1/4"
12	SAE 1 1/2"

Code	Description
3	SAE 61
6	SAE 62

Code	Description
1	Sealing for Port A
2*	Sealing for Ports A and X
3	Without Sealing

Code	Description
0	0.5 Bar (7 PSI)
1	1.0 Bar (15 PSI)
2	2.0 Bar (29 PSI)

Code	Description
1	Nitrile
5	Fluorocarbon

Code	Description
Omit	Standard
019*	C5V10 for M14 Mounting Screws

* For combination with R5U Unloading Valve (SAE 61 only).

Weight:

C5V06	0.6 kg (1.3 lbs.)
C5V08	0.9 kg (2.0 lbs.)
C5V10	1.3 kg (2.9 lbs.)
C5V12	1.8 kg (4.0 lbs.)

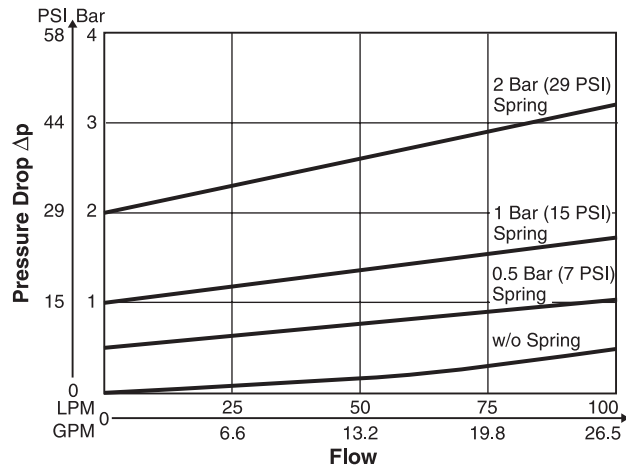
Specifications

General					
Size	06 (3/4")	08 (1")	10 (1 1/4")	12 (1 1/2")	
Mounting	2-port in-line flange SAE 61 and SAE 62				
Mounting Position	Unrestricted				
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)				
Hydraulic					
Maximum Operating Pressure	SAE 61	350 Bar (5075 PSI)	350 Bar (5075 PSI)	280 Bar (4060 PSI)	210 Bar (3045 PSI)
	SAE 62	420 Bar (6090 PSI)	420 Bar (6090 PSI)	420 Bar (6090 PSI)	420 Bar (6090 PSI)
Nominal Flow	100 LPM (26.5 GPM)	200 LPM (52.9 GPM)	400 LPM (105.8 GPM)	750 LPM (198.4 GPM)	
Fluid	Hydraulic oil in accordance with DIN 51524...51525				
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)				
Viscosity	Permitted Recommended	10 to 650 cSt / mm ² /s (46 to 3013 SSU)			
		30 cSt / mm ² /s (139 SSU)			
Filtration	ISO 4406 (1999) 18/16/13 (acc. NAS 1638:7)				

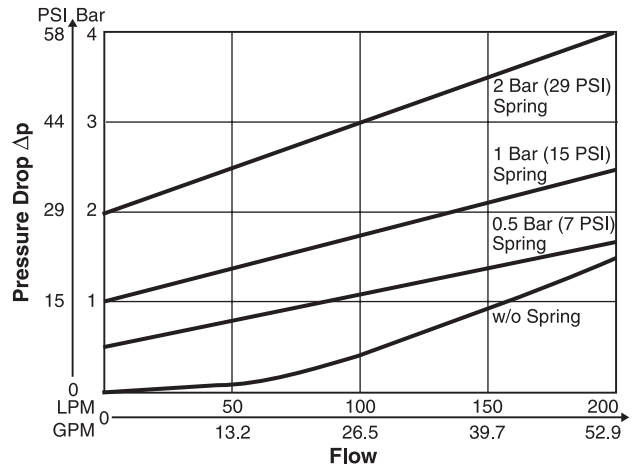


Performance Curves

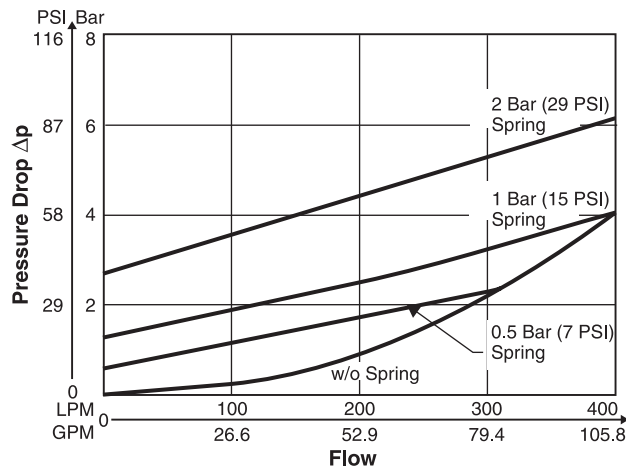
C5V06



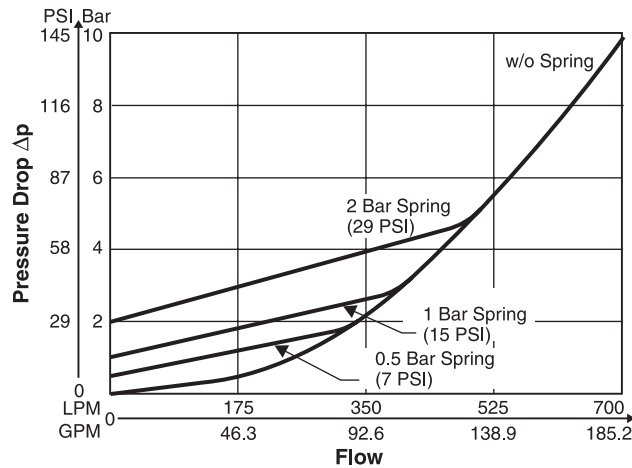
C5V08



C5V10



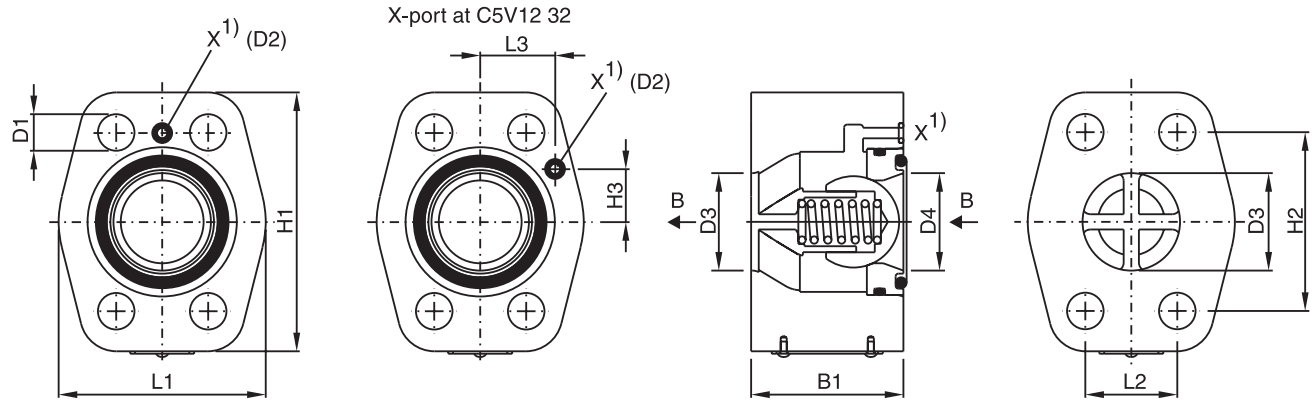
C5V12



C5V.indd, dd



Inch equivalents for millimeter dimensions are shown in (**)



Position of O-ring seal according to ordering information

¹⁾ X1 port for C5V*32* (for use with Unloading Valve R5U)

Series	Nominal Size		L1	L2	L3	H1	H2	H3	B1	D1	D2	D3 + 0.8	D4
C5V06	3/4"	SAE 61	48.0 (1.89)	22.2 (0.87)	27.2 (1.07)	64.0 (2.52)	47.6 (1.87)	22.4 (0.88)	45.0 (1.77)	10.5 (0.41)	Ø3.0 (0.12)	19.0 (0.75)	19.0 (0.75)
		SAE 62	48.0 (1.89)	23.8 (0.94)	27.2 (1.07)	64.0 (2.52)	50.8 (2.00)	22.4 (0.88)	45.0 (1.77)	10.5 (0.41)	-	19.0 (0.75)	19.0 (0.75)
C5V08	1"	SAE 61	60.0 (2.36)	26.2 (1.03)	27.2 (1.07)	74.0 (2.91)	52.4 (2.06)	22.4 (0.88)	45.0 (1.77)	10.5 (0.41)	Ø3.0 (0.12)	25.0 (0.98)	25.0 (0.98)
		SAE 62	60.0 (2.36)	27.8 (1.09)	27.2 (1.07)	74.0 (2.91)	57.2 (2.25)	22.4 (0.88)	45.0 (1.77)	12.5 (0.49)	-	25.0 (0.98)	25.0 (0.98)
C5V10	1 1/4"	SAE 61	68.0 (2.68)	30.2 (1.19)	27.2 (1.07)	85.0 (3.35)	58.7 (2.31)	22.4 (0.88)	50.0 (1.97)	12.5 (0.49)	Ø3.0 (0.12)	32.0 (1.26)	32.0 (1.26)
		SAE 62	68.0 (2.68)	31.8 (1.25)	27.2 (1.07)	85.0 (3.35)	66.7 (2.63)	22.4 (0.88)	50.0 (1.97)	13.5* (0.53)	-	32.0 (1.26)	32.0 (1.26)
C5V12	1 1/2"	SAE 61	80.0 (3.15)	35.7 (1.41)	27.2 (1.07)	104.0 (4.09)	69.8 (2.75)	22.4 (0.88)	50.0 (1.97)	13.5 (0.53)	Ø3.0 (0.12)	42.0 (1.65)	38.0 (1.50)
		SAE 62	80.0 (3.15)	36.5 (1.44)	27.2 (1.07)	104.0 (4.09)	79.4 (3.13)	22.4 (0.88)	50.0 (1.97)	17.0 (0.67)	-	42.0 (1.65)	38.0 (1.50)

* D1 = 15 (0.59) at option code 019 for M14 mounting screws.

Seal Kits		
NG	Nitrile	Fluorocarbon
3	S26-75409-0	S26-75409-5
6	S26-75410-0	S26-75410-5
10	S26-75411-0	S26-75411-5
12	S26-75412-0	S26-75412-5