Technical Information

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

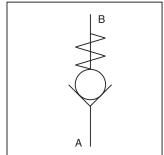
The ball is held on its seat by a spring under zero pressure condition. When flow is increased to the cracking pressure, free flow is allowed from port A to port B. Blocked flow is created when operating pressure and spring on Port B exceed pressure on port A.

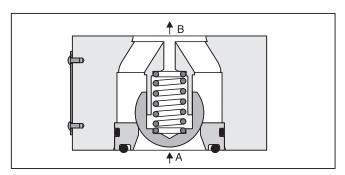
Features

- 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

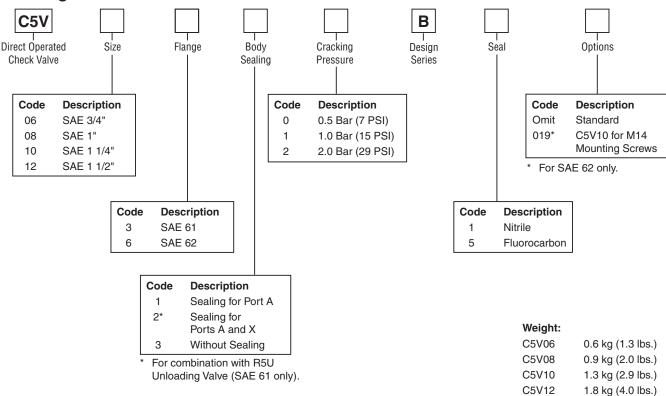


Series C5V (Direct Operated)





Ordering Information



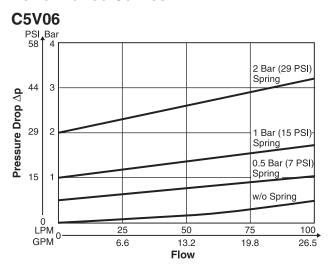
WARNING: This product can expose you to chemicals including Lead, Nickel (Metallic), or 1,3-Butadiene which are known to the State of California to cause cancer, and Lead or 1,3-Butadiene which is known to the State of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

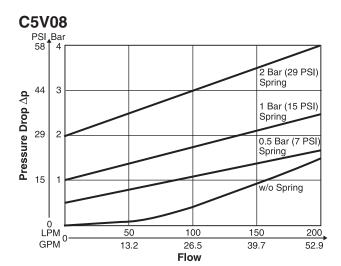


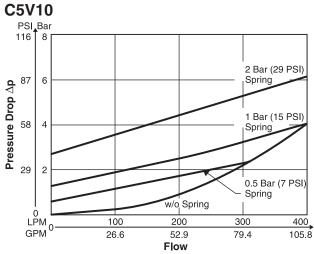
Specifications

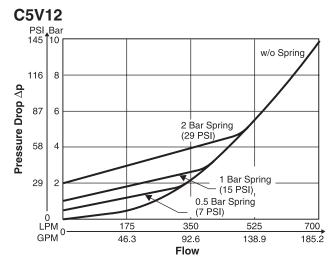
General							
Size	06 (3/4")	08 (1")	10 (1 1/4")	12 (1 1/2")			
Mounting	2-port in-line flange SAE 61 and SAE 62						
Mounting Position	Unrestricted						
Ambient Temprature	-20°C to +50°C (-4°F to +122°F)						
Hydraulic							
Maximum Operating Pressure							
SAE 61 SAE 62	350 Bar (5075 PSI) 420 Bar (6090 PSI)	350 Bar (5075 PSI) 420 Bar (6090 PSI)	280 Bar (4060 PSI) 420 Bar (6090 PSI)	210 Bar (3045 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 5152451525						
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)						
Viscosity Permitted Recommended	10 to 650 cSt / mm²/s (46 to 3013 SSU) 30 cSt / mm²/s (139 SSU)						
Filtration	ISO 4406 (1999) 18/16/13 (acc. NAS 1638:7)						

Performance Curves







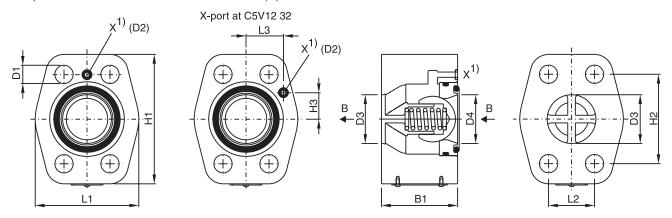




Series C5V (Direct Operated)

Dimensions

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	Nomin	al Size	L1	L2	L3	H1	H2	Н3	B1	D1	D2	D3 + 0.8	D4
C5V06 3/4"	0/411	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)
	3/4	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"	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				

