General Description

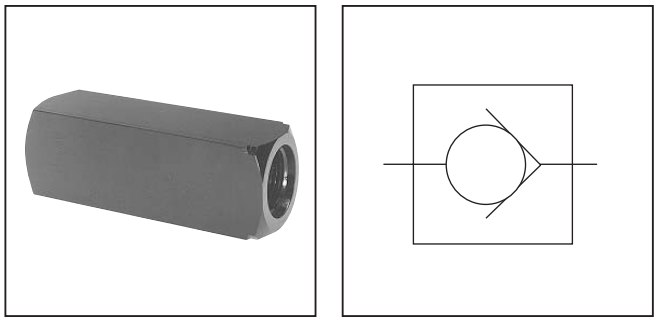
Series 6C check valves provide free flow in one direction and dependable shut-off in the reverse direction.

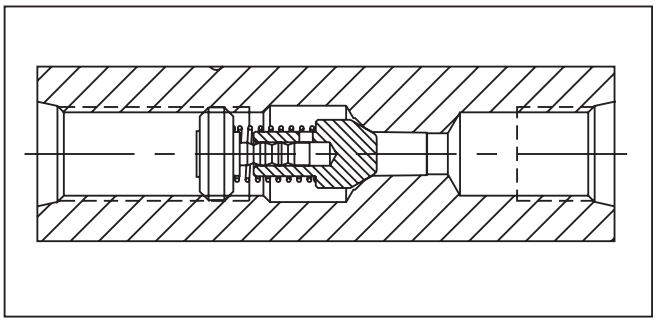
Operation

When pressure going through the valve is increased to the cracking level, the valve opens. When the pressure is reduced to below the cracking level, the valve closes.

Features

- Meets ISO 6149 standards
- Hard metric dimensions.
- Reliable leak-free performance — straight thread port with o-ring sealing.
- Global interchangeablility.



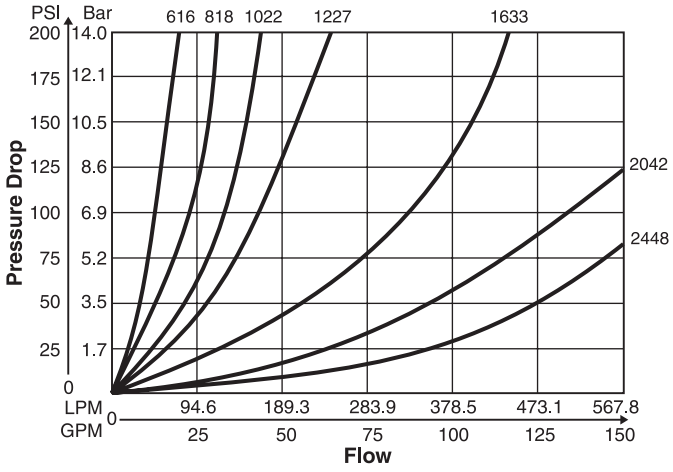


Specifications

Maximum Operating Pressure	345 Bar (5000 PSI)
Maximum Flow	M16 x 1.5 19 LPM (5 GPM) M18 x 1.5 30 LPM (8 GPM) M22 x 1.5 57 LPM (15 GPM) M27 x 2.0 95 LPM (25 GPM) M33 x 2.0 151 LPM (40 GPM) M42 x 2.0 265 LPM (70 GPM) M48 x 2.0 379 LPM (100 GPM)
Cracking Pressure	Standard: 0.3 Bar (5 PSI) Optional: 4.5 Bar (65 PSI)
Material	Body ASTM 12L14 Carbon Steel Poppet ASTM 416 Stainless Steel Retainer ASTM 416 Stainless Steel Spring ASTM 316 Stainless Steel
Temperature Range of Seal Compound	-40°C to +121°C (-40°F to +250°F) Nitrile (Standard) -26°C to +205°C (-15°F to +400°F)Fluorocarbon

Performance Curves

Controlled Flow vs. Pressure Drop
Free Flow 0.3 Bar (5 PSI) Cracking
100 SSU, Hydraulic Oil



Ordering Information

6	C		S	
Ports	Style	Size	Material	Design Series

NOTE: Not required when ordering.

Code	Description
6	ISO 6149 ports

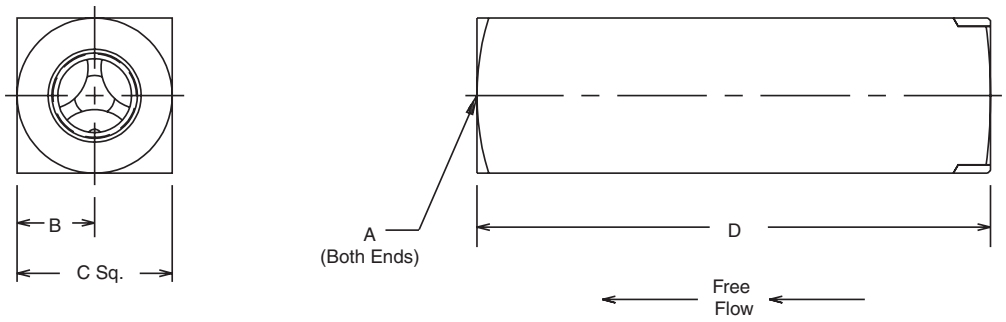
Code	Description
C	Check Valve

Code	Ratio
616	M16 x 1.5
818	M18 x 1.5
1022	M22 x 1.5
1227	M27 x 2.0
1633	M33 x 2.0
2042	M42 x 2.0
2448	M48 x 2.0

Code	Description
S	Steel

Dimensions

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



Model Number	Weight kg (lbs.)	A	B	C	D
6C616	0.2 (0.5)	M16 x 1.5	12.7 (0.50)	25.4 (1.00)	79.2 (3.12)
6C818	0.3 (0.7)	M18 x 1.5	14.2 (0.56)	28.4 (1.12)	88.9 (3.50)
6C1022	0.6 (1.3)	M22 x 1.5	15.7 (0.62)	31.8 (1.25)	101.6 (4.00)
6C1227	0.9 (2.0)	M27 x 2.0	19.1 (0.75)	38.1 (1.50)	117.3 (4.62)
6C1633	1.5 (3.3)	M33 x 2.0	22.4 (0.88)	44.5 (1.75)	127.0 (5.00)
6C2042	2.8 (6.2)	M42 x 2.0	28.7 (1.13)	57.2 (2.25)	132.8 (5.23)
6C2448	3.8 (8.4)	M48 x 2.0	35.1 (1.38)	69.9 (2.75)	143.0 (5.63)