

High Pressure Check Valves

C15, C15B Series, 15,000 psi (1034 bar)

C20, C20B Series, 20,000 psi (1379 bar)

C60, C60B Series, 60,000 psi (4137 bar)



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C15 Series

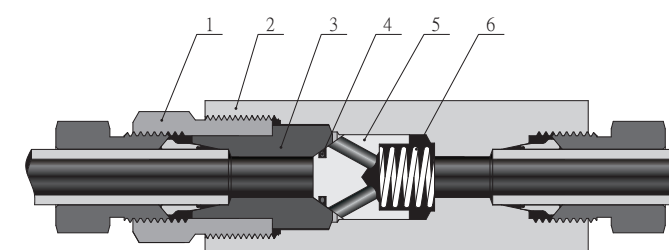
15,000 psi (1034 bar)

O-Ring Check Valves

Features

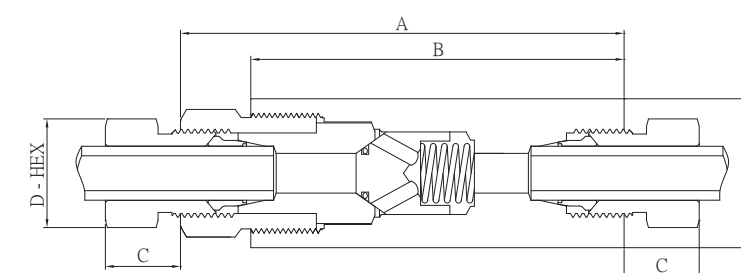
- ☆ Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure, valves shuts off (Not for use as relief valve).
- ☆ Tubing sizes available for 1/4", 3/8", 1/2".
- ☆ Resilient O-ring seat design for noise-free closing leakage-free.
- ☆ Maximum working pressure: 15,000 psig (1034 bar).
- ☆ Working temperature: 0°F (-17.8°C) to 400°F (204°C).
- ☆ Cracking pressure: 14 psig ~ 26 psig (0.966 bar ~ 1.794 bar).

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	O-Ring	Fluorocarbon FKM
5	Poppet	316 SS/A479
6	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



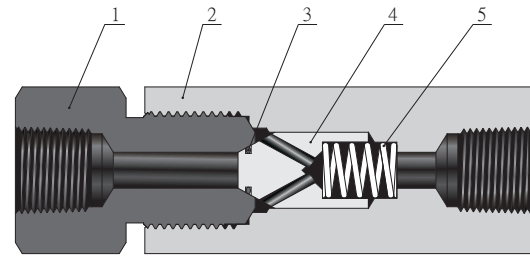
Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
				in. (mm)					
SS-C15-S4	15S4	0.188 (4.78)	0.63	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (16.00)	0.81 (20.57)	15,000 (1034)
SS-C15-S6	15S6	0.250 (6.35)	1.70	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	15,000 (1034)
SS-C15-S8	15S8	0.375 (9.53)	3.40	4.18 (106.17)	3.50 (88.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)	15,000 (1034)

Pipe O-Ring Check Valves

Features

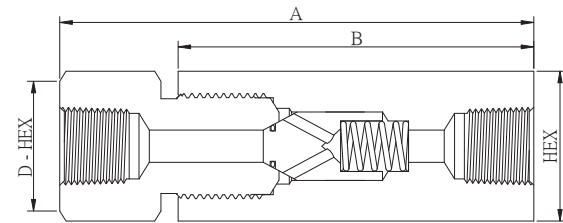
- ☆ Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure, valves shuts off (Not for use as relief valve).
- ☆ Resilient O-ring seat design for noise-free closing leakage-free.
- ☆ Maximum working pressure: 15,000 psig (1034 bar).
- ☆ Working temperature: 0°F (-17.8°C) to 400°F (204°C).
- ☆ Cracking pressure: 14 psig ~ 26 psig (0.966 bar~1.794 bar).

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	O-Ring	Fluorocarbon FKM
4	Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	A	B	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
				in. (mm)				
SS-C15-FNT4	FNT4	0.12 (3.05)	0.28	3.37 (85.60)	2.38 (60.33)	0.94 (23.81)	0.94 (23.81)	15,000 (1034)
SS-C15-FNT6	FNT6	0.22 (5.59)	0.84	3.95 (100.33)	2.88 (73.15)	1.13 (28.58)	1.13 (28.58)	15,000 (1034)
SS-C15-FNT8	FNT8	0.34 (8.70)	2.30	4.63 (117.50)	3.5 (88.90)	1.38 (34.93)	1.38 (34.93)	15,000 (1034)

C15B Series

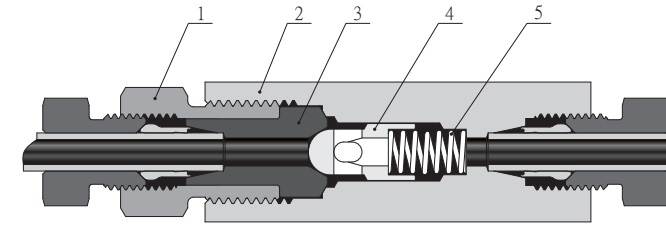
15,000 psi (1034 bar)

Ball Check Valves

Features

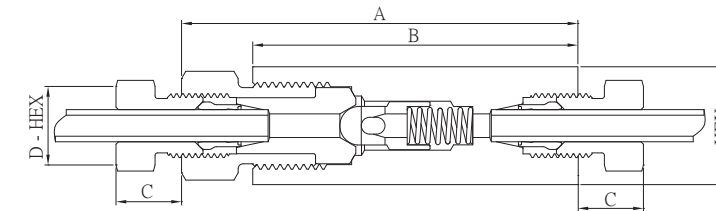
- ☆ Prevents reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valves closes (Not for use as relief valve).
- ☆ Tubing sizes available for 1/4", 3/8", 1/2".
- ☆ Maximum working pressure:15,000 psig (1034 bar).
- ☆ Working temperature: -325°F (-198°C) to 800°F (427°C).
- ☆ Ball and poppet are an integral design to assure positive, in-line seating without "chatter". poppet is designed essentially for axial flow with minimum pressure drop.

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	Ball Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



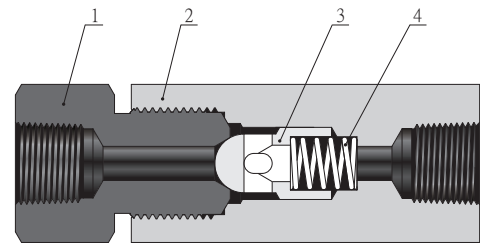
Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
				in. (mm)					
SS-C15B-S4	15S4	0.188 (4.78)	0.63	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (16.00)	0.81 (20.57)	15,000 (1034)
SS-C15B-S6	15S6	0.250 (6.35)	1.70	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	15,000 (1034)
SS-C15B-S8	15S8	0.375 (9.53)	3.40	4.18 (106.17)	3.50 (88.90)	0.53 (13.46)	0.93 (23.62)	1.38 (35.05)	15,000 (1034)

Pipe Ball Check Valves

Features

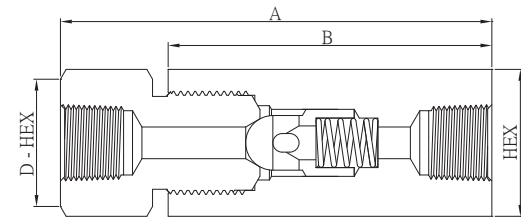
- ☆ Prevents reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valves closes (Not for use as relief valve).
- ☆ Maximum working pressure: 15,000 psig (1034 bar).
- ☆ Working temperature: -325°F (-198°C) to 400°F (204°C).
- ☆ Ball and poppet are an integral design to assure positive, in-line seating without "chatter". poppet is designed essentially for axial flow with minimum pressure drop.

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Ball Poppet	316 SS/A479
4	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	A	B	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
				in. (mm)				
SS-C15B-FNT4	FNT4	0.12 (3.05)	0.28	3.37 (85.60)	2.38 (60.33)	0.94 (23.81)	0.94 (23.81)	15,000 (1034)
SS-C15B-FNT6	FNT6	0.22 (5.59)	0.84	3.95 (100.33)	2.88 (73.15)	1.13 (28.58)	1.13 (28.58)	15,000 (1034)
SS-C15B-FNT8	FNT8	0.36 (9.12)	2.30	5.36 (136.14)	3.88 (98.55)	1.38 (34.93)	1.38 (34.93)	15,000 (1034)

C20 Series

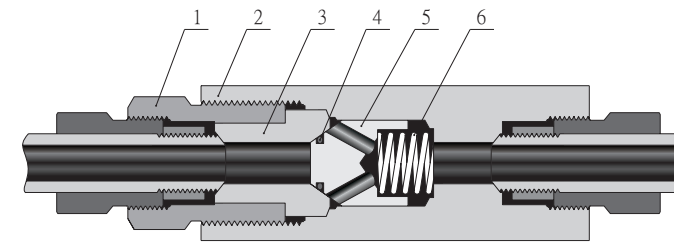
20,000 psi (1379 bar)

O-Ring Check Valves

Features

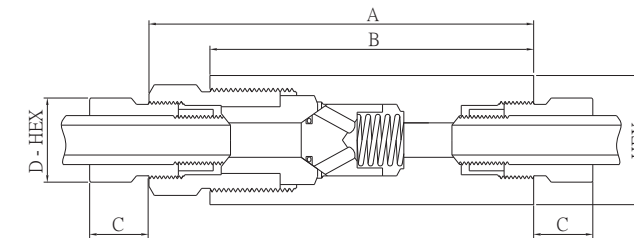
- ☆ Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure, valves shuts off (Not for use as relief valve).
- ☆ Tubing sizes available for 1/4" to 1".
- ☆ Resilient O-ring seat design for noise-free closing leakage-free.
- ☆ Maximum working pressure: 20,000 psig (1379 bar).
- ☆ Working temperature: 0°F (-17.8°C) to 400°F (204°C).
- ☆ Cracking pressure: 14 psig ~ 26 psig (0.966 bar~1.794 bar).

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	O-Ring	Fluorocarbon FKM
5	Poppet	316 SS/A479
6	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
				in. (mm)					
SS-C20-S4	20S4	0.125 (3.18)	0.28	2.94 (74.68)	2.50 (63.50)	0.38 (9.65)	0.50 (12.70)	0.81 (20.57)	20,000 (1379)
SS-C20-S6	20S6	0.218 (5.54)	0.84	3.12 (79.25)	2.62 (66.55)	0.47 (11.94)	0.62 (15.75)	1.00 (25.40)	20,000 (1379)
SS-C20-S9	20S9	0.359 (9.12)	2.30	4.18 (106.17)	3.50 (88.90)	0.53 (13.46)	0.94 (23.88)	1.38 (35.05)	20,000 (1379)
SS-C20-S12	20S12	0.516(13.11)	4.70	5.50 (139.70)	4.75 (120.65)	0.62 (15.75)	1.19 (30.23)	1.75 (44.45)	20,000 (1379)
SS-C20-S16	20S16	0.688(17.48)	7.40	6.63 (168.40)	5.75 (146.05)	0.72 (18.29)	1.38 (35.05)	2.12 (53.85)	20,000 (1379)

C20B Series

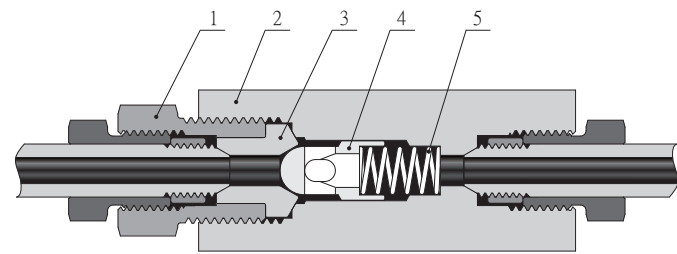
20,000 psi (1379 bar)

Ball Check Valves

Features

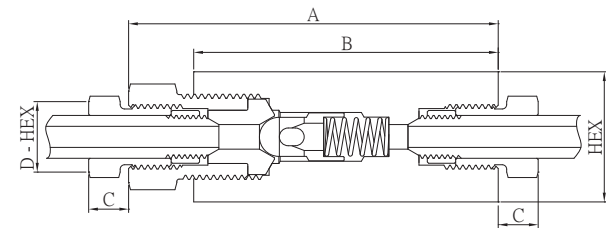
- ☆ Prevents reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valves closes. (Not for use as relief valve)
- ☆ Tubing sizes available for 1/4" to 1".
- ☆ Maximum working pressure: 20,000 psig (1379 bar).
- ☆ Working temperature: -423°F (-252°C) to 1200°F (649°C).
- ☆ Ball and poppet are an integral design to assure positive, in-line seating without "chatter". poppet is designed essentially for axial flow with minimum pressure drop.

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	Ball Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	in. (mm)					Pressure/Temperature Rating psig (bar) @ Room Temperature
				A	B	C	D - HEX	HEX	
SS-C20B-S4	20S4	0.125 (3.18)	0.28	2.94 (74.68)	2.50 (63.50)	0.38 (9.65)	0.50 (12.70)	0.81 (20.57)	20,000 (1379)
SS-C20B-S6	20S6	0.218 (5.54)	0.84	3.12 (79.25)	2.62 (66.55)	0.47 (11.94)	0.62 (15.75)	1.00 (25.40)	20,000 (1379)
SS-C20B-S9	20S9	0.359 (9.12)	2.30	4.18 (106.17)	3.50 (88.90)	0.53 (13.46)	0.94 (23.88)	1.38 (35.05)	20,000 (1379)
SS-C20B-S12	20S12	0.516(13.11)	4.70	5.50 (139.70)	4.75 (120.65)	0.62 (15.75)	1.19 (30.23)	1.75 (44.45)	20,000 (1379)
SS-C20B-S16	20S16	0.688(17.48)	7.40	6.63 (168.40)	5.75 (146.05)	0.72 (18.29)	1.38 (35.05)	2.12 (53.85)	20,000 (1379)

C60 Series

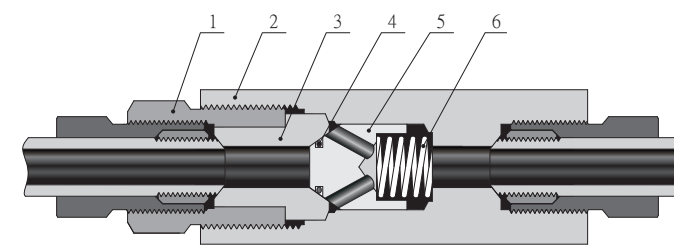
60,000 psi (4137 bar)

O-Ring Check Valves

Features

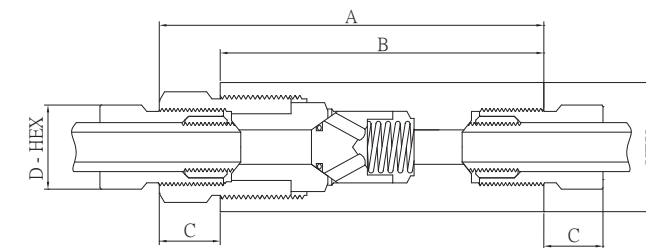
- ☆ Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure, valves shuts off (Not for use as relief valve).
- ☆ Tubing sizes available for 1/4" to 9/16".
- ☆ Resilient O-ring seat design for noise-free closing leakage-free.
- ☆ Maximum working pressure: 60,000 psig (4137 bar).
- ☆ Working temperature: 0°F (-17.8°C) to 400°F (204°C).
- ☆ Cracking pressure: 14 psig ~ 26 psig (0.966 bar~1.794 bar).

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	O-Ring	Fluorocarbon FKM
5	Poppet	316 SS/A479
6	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	in (mm)					Pressure/Temperature Rating psig (bar) @ Room Temperature
				A	B	C	D - HEX	HEX	
SS-C60-S4	60S4	0.094(2.39)	0.15	3.38 (85.85)	2.50 (63.50)	0.50 (12.70)	0.63 (16.00)	1.18 (29.97)	60,000 (4137)
SS-C60-S6	60S6	0.125(3.18)	0.28	3.75 (95.25)	2.62 (66.55)	0.53 (13.46)	0.75 (19.05)	1.18 (29.97)	60,000 (4137)
SS-C60-S9	60S9	0.187(4.75)	0.63	4.62 (117.35)	3.38 (85.85)	0.81 (20.57)	1.12 (28.45)	1.50 (38.10)	60,000 (4137)

C60B Series

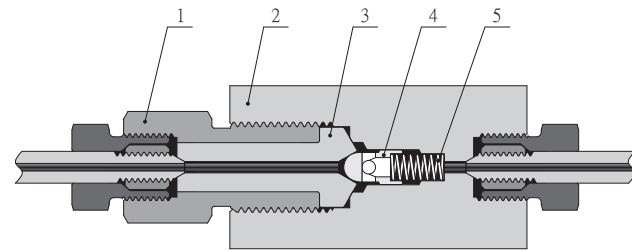
60,000 psi (4137 bar)

Ball Check Valves

Features

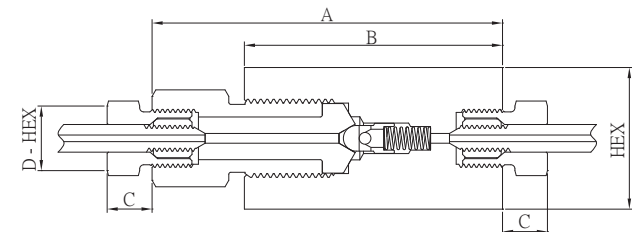
- ☆ Prevents reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valves closes. (Not for use as relief valve)
- ☆ Tubing sizes available for 1/4" to 9/16".
- ☆ Maximum working pressure: 60,000 psig (4137 bar).
- ☆ Working temperature: -423°F (-252°C) to 1200°F (649°C).
- ☆ Ball is cradled in floating poppet to assure positive, in-line seating without "chatter". poppet is designed essentially for axial flow with minimum pressure drop.

Standard Materials



Item	Component	Valve Material
1	Cover Gland	316 SS/A479
2	Valve Body	316 SS/A479
3	Cover	316 SS/A479
4	Ball Poppet	316 SS/A479
5	Spring	300 Series Stainless Steel
	Lubricant	Molybdenum disulfide

Technical Data and Dimensions



Ordering Number	Connection Type	Orifice in.(mm)	Rated Cv	A	B	C	D - HEX	HEX	Pressure/Temperature Rating psig (bar) @ Room Temperature
				in. (mm)					
SS-C60B-S4	60S4	0.094 (2.39)	0.15	3.38 (85.85)	2.50 (63.50)	0.50 (12.70)	0.63 (16.00)	1.18 (29.97)	60,000 (4137)
SS-C60B-S6	60S6	0.125 (3.18)	0.28	3.75 (95.25)	2.62 (66.55)	0.53 (13.46)	0.75 (19.05)	1.18 (29.97)	60,000 (4137)
SS-C60B-S9	60S9	0.187(4.75)	0.63	4.62 (117.35)	3.38 (85.85)	0.81 (20.57)	1.12 (28.45)	1.50 (38.10)	60,000 (4137)

NOTE:

All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or FINELOK.

Ordering Information

