

The **DSV Check Valve** is a non-slam spring-assisted check valve designed to prevent flow reversal in industries with strict cleanliness codes. To accommodate various piping arrangements, the DSV Check Valve is available as a “Vertical” or “Horizontal” valve. The Horizontal valve is for Horizontal lines requiring a self-draining valve. The “Vertical” design is for “Vertical” installations and “Horizontal” lines when a self-draining valve is not required. The DSV Check Valve, with a 316L stainless steel body and seat, is fastened with a quick release clamp and elastomeric gasket body seal to permit fast and easy access to the internals. The disc and seat are lapped to provide excellent shutoff.

Horizontal

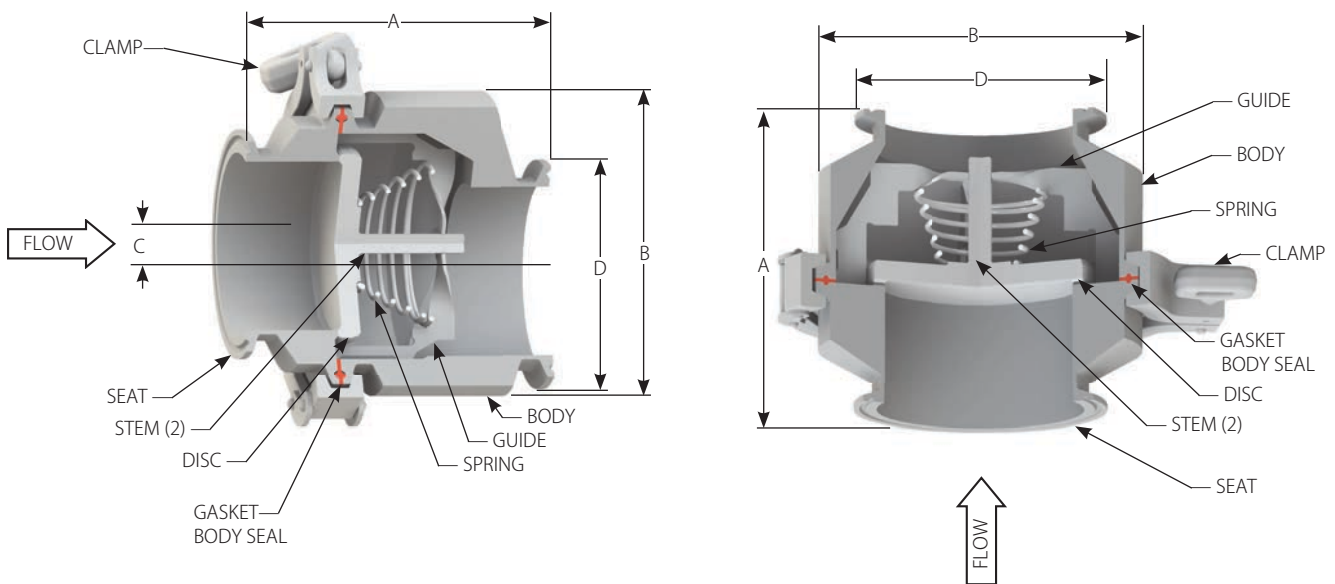


FEATURES:

- Meets 3A Sanitary Standard 58-02
- Spring-assisted silent closing
- Horizontal or vertical installation
- Sizes 1/2" thru 4"
- 150 CWP, 108 ANSI Pressure Class
- 316L body and seat (A351 CF3M)
- 316 disc, spring and guide assembly
- 32 Ra Internal Surface Finish (#4 Ground Finish)
- Edge-guided disc: 1/2" thru 2"
- Edge/center-guided disc: 2 1/2", 3", 4"
- Lapped “metal” seat and disc
- Springs:
 - Low cracking pressures
 - .16 psig to .66 psig
 - Conical design
 - Electropolished finish
- Standard gasket body seal:
 - EPDM (300°F max temperature)
 - Optional gasket body seal:
 - Tuf-Steel[®] (1) (450°F max temperature)
 - Viton[®] (400°F max temperature)
 - CIP (Clean in Place)
 - Clamped ends
 - Seat leakage per MSS SP-61
 - Options:
 - 15 Ra Internal Finish

Horizontal

Vertical



Consult pages 48 and 49 for Pressure/Temperature ratings and soft seat materials.

HORIZONTAL		
1/2"	A	2.50
	B (Dia.)	1.50
	D (Dia.)	0.98
	Weight	1.4
	C	0.44
	Cv	2.4
3/4"	CP	0.29
	A	2.50
	B	1.50
	D (Dia.)	0.98
	Weight	1.4
	C	0.31
1"	Cv	7
	CP	0.29
	A	3.48
	B (Dia.)	3.00
	D (Dia.)	1.98
	Weight	3.7
1 1/2"	C	0.50
	Cv	12
	CP	0.36
	A	3.67
	B (Dia.)	3.12
	D (Dia.)	1.98
2"	Weight	4.0
	C	0.50
	Cv	36
	CP	0.28
	A	4.41
	B (Dia.)	3.62
2 1/2"*	D (Dia.)	2.52
	Weight	5.8
	C	0.50
	Cv	47
	CP	0.23
	A	5.56
3"*	B (Dia.)	4.75
	D (Dia.)	3.05
	Weight	11.2
	C	0.73
	Cv	69
	CP	0.54
4"*	A	4.88
	B (Dia.)	4.75
	D (Dia.)	3.58
	Weight	9.9
	C	0.48
	Cv	90
4"*	CP	0.54
	A	6.25
	B (Dia.)	7.00
	D (Dia.)	4.68
	Weight	22.2
	C	0.97
4"*	Cv	137
	CP	0.50

VERTICAL		
1/2"	A	2.50
	B (Dia.)	1.5
	D (Dia.)	0.98
	Weight	1.4
	Cv	2.4
	Flow Down	0.26
3/4"	CP	0.33
	A	2.25
	B (Dia.)	1.5
	D (Dia.)	0.98
	Weight	1.3
	Cv	7
1"	CP	0.26
	Flow Up	0.33
	A	2.92
	B (Dia.)	2.00
	D (Dia.)	1.98
	Weight	2.3
1 1/2"	Cv	18
	CP	0.31
	Flow Down	0.41
	A	3.29
	B (Dia.)	2.50
	D (Dia.)	1.98
2"	Weight	2.8
	Cv	38
	CP	0.23
	Flow Down	0.33
	Flow Up	0.33
	A	4.03
2 1/2"*	B (Dia.)	3.00
	D (Dia.)	2.52
	Weight	3.9
	Cv	53
	CP	0.16
	Flow Down	0.31
3"*	Flow Up	0.31
	A	5.6
	B (Dia.)	4.75
	D (Dia.)	3.05
	Weight	9.9
	Cv	81
3"*	CP	0.42
	Flow Down	0.66
	Flow Up	0.66
	A	4.38
	B (Dia.)	4.00
	D (Dia.)	3.58
4"*	Weight	6.1
	Cv	109
	CP	0.42
	Flow Down	0.66
	Flow Up	0.66
	A	5.50
4"*	B (Dia.)	6.00
	D (Dia.)	4.68
	Weight	14.9
	Cv	174
	CP	0.40
	Flow Down	0.60
4"*	Flow Up	0.60

MATERIALS OF CONSTRUCTION

COMPONENT	
Body	A351 CF3M
Seat	A351 CF3M
Disc	316 SS
Spring	316 SS
	(electropolished)
Guide Assembly	316 SS
Gasket Body Seal	EPDM**
	(-75°F to 300°F)
Clamp	304 SS

** Other gasket body seal materials available upon request

PRESSURE/TEMPERATURE RATING

Temp. (°F)	Pressure	Material Temp. Limit
100	150	
200	125	
300	115	EPDM
400	105	Viton [®]
450	90	Tuf-Steel [®] (1)

- Notes:**
- Blend of non-pigmented PTFE and 316L passivated and atomized Stainless Steel. Good for steam applications. Meets USDA, FDA and 3A Sanitary Standards and U.S. Pharmacopeia Class VI Certification.
 - Sizes 2 1/2", 3", 4"
- * Edge/Center Guided Disc

All dimensions are in inches. Weights are in pounds. For metric measurements, visit www.dft-valves.com. CP: Cracking Pressure (psig)