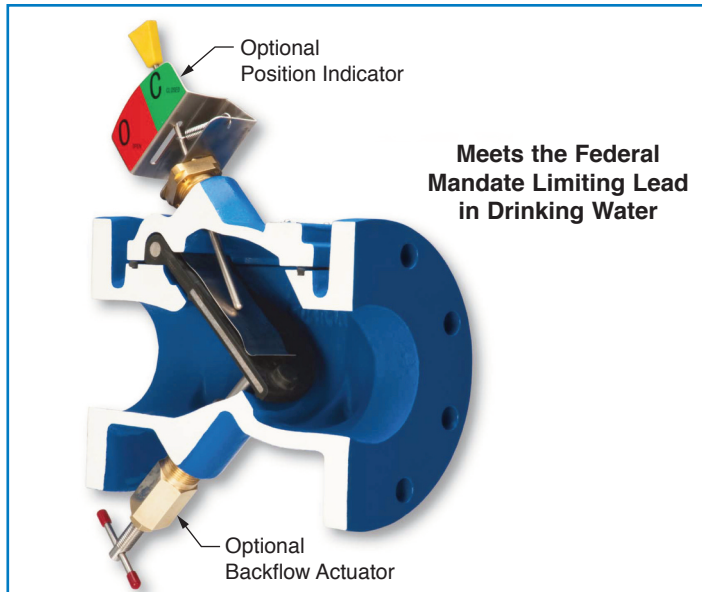




Series 587

Surge Blocker® Check Valve



- **Non-Clog Design**
- **Reinforced Disc for drip tight closure**
- **Short disc stroked ensures non-slam operation**
- **Fusion Bonded Epoxy Coating NSF-61**
- **Optional Mechanical Disc Position Indicator, available upon request**
- **Optional Backflow Actuator, available upon request**
- **Designed and Manufactured to AWWA C508**
- **NSF/ANSI 61 and 372 Certified**

The Cla-Val 587 Surge Blocker Check Valve is designed for long service life and maintenance free operation; and is ideal for pumping applications with high head, surge tanks or installations with multiple pumps.

The Surge Blocker effectively prevents slamming and resulting surge conditions caused by reverse flow. The valve's 35° short disc stroke results in rapid closure as compared to a conventional swing check valve with an 80° to 90° typical stroke distance

The valve is constructed of Ductile Iron to provide greater durability and protection in applications with high stresses and shock loads. The body and cover are fusion bonded NSF-61 epoxy coated in accordance with AWWA C508 for long service life in potable and non-potable systems.

The design and manufacturing process is further enhanced by the utilization of solid modeling and Finite Element Analysis (FEA) to ensure the integrity of the valve material, while the flow and headloss data is confirmed using a variety of flow tests and Computational Fluid Dynamics (CFD).

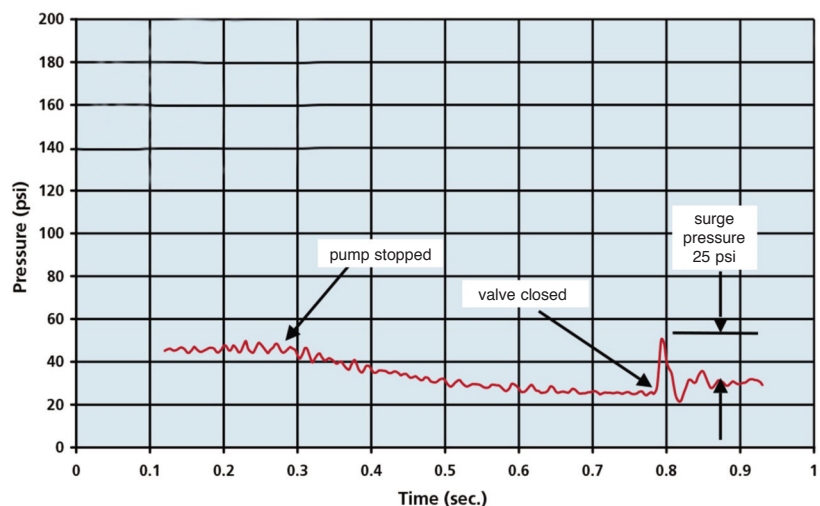
MAXIMUM PRESSURE RATINGS

Size Range inches (mm)	Connection	CWP psig (bar)
2" - 24" (50 - 600 mm)	ANSI Class 125 Ductile Iron	250 (17.2)
30" - 48" (800 - 1200 mm)	ANSI Class 125 Cast Iron	150 (10.3)
30" - 48" (800 - 1200 mm)	ANSI Class 125 Ductile Iron	250 (17.2)

Material Specifications

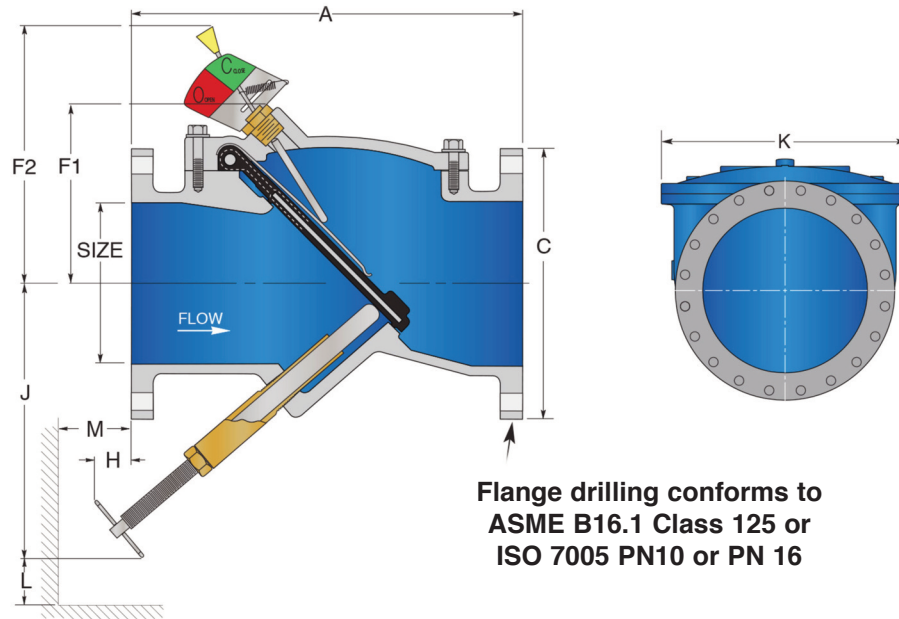
Component	Standard	Optional
Body 2" - 24" (50 - 600 mm)	Ductile Iron ASTM A536 GR 65-45-12	ASTM A 351 CF8M 316 SS 3"-12" (80-300 mm)
Body 30" - 48" (800-1200 mm)	Ductile Iron ASTM A536 GR 65-45-12	Cast Iron ASTM A126, Class B
Disc	Buna-N w/Alloy Steel & Nylon Reinforcement	EPM, Hypalon, Viton
Disc Accelerator	ASTM A666 T302 Stainless Steel	- -
Coatings	Fusion Bonded Epoxy (Int/Ext)	Rubber Lining, Glass Lining
Mechanical Indicator Option	17-4 Stainless Steel, Lead Free Bronze	- -
Backflow Actuator Option		- -

Surge Blocker results showing closure during a surge event, producing a 25 psi surge pressure, 80% less than a conventional air cushioned swing check valve



587 Surge Blocker Check Valve

Dimensions



Dimensions in Inches											
Valve Size (In.)	Valve Size (mm)	CWP (psi)	Base Valve				with Optional Indicator	with Optional Backflow Actuator			
			A	C	F1	K	F2	H	J	L	M
2	50	250	8.00	6.00	3.38	5.18	-	-0.50	6.75	1.50	1.50
2-1/2	60	250	8.50	7.00	3.38	5.18	-	-0.50	7.00	1.50	1.50
3	80	250	9.50	7.50	5.13	7.50	8.88	-0.38	7.50	1.50	1.50
4	100	250	11.50	9.00	5.75	8.25	9.50	3.38	10.75	2.50	2.50
6	150	250	14.00	11.00	6.88	11.13	10.63	1.38	11.38	3.00	3.00
8	200	250	19.50	13.50	8.38	16.00	12.15	2.00	15.75	5.75	5.75
10	250	250	24.50	16.00	10.75	21.00	14.63	0.50	17.00	5.75	5.75
12	300	250	27.50	19.00	12.50	24.00	16.25	3.50	22.50	6.50	6.50
14	350	250	31.00	21.00	13.00	23.25	18.88	4.00	26.25	6.50	6.50
16	400	250	36.00	23.50	14.25	25.25	20.13	4.63	30.00	6.50	6.50
18	450	250	40.00	25.00	15.15	28.25	21.25	5.25	33.75	6.50	6.50
20	500	250	40.00	27.50	16.88	30.63	22.63	5.88	37.50	8.00	8.00
24	600	250	48.00	32.00	19.25	36.00	25.15	1.81	45.00	8.00	8.00
30	800	150	56.00	38.75	23.00	45.88	28.88	-0.63	41.25	8.00	8.00
	800	250									
36	900	150	63.00	46.00	27.38	55.00	32.25	-0.38	49.00	9.75	9.75
	900	250									
42	1000	150	70.00	53.00	36.88	60.18	40.37	-5.50	53.50	9.75	9.75
	1000	250									
48	1000	150	76.00	59.50	40.66	68.00	43.41	-2.90	41.98	10.00	10.00
	1000	250									