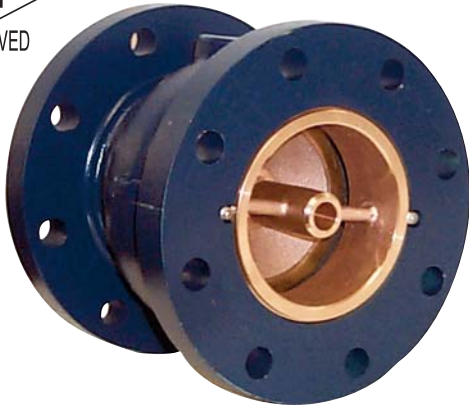




# Series 581

## Silent Globe Check Valve



- Operates Horizontally or Vertically
- Watertight Seating
- Field Replaceable Parts
- Factory Mutual Approved – Various Sizes
- Optional Resilient Seat

The Cla-Val Series 581 Silent Globe Check Valve has a spring-loaded poppet that allows the valve to close before flow reversal occurs, resulting in a silent, non-slam closure. It is a truly silent check valve. For ease of installation, the valve can be installed in vertical or horizontal positions with flow up or flow down. Silent Globe Check Valves are available in 2 1/2" to 42" sizes, with either a 125 lb. or 250 lb. pressure class rating. Silent Globe Check Valves in 3" to 10" sizes have enough outlet clearance to allow them to be bolted directly to wafer style butterfly valves.

### SPECIFICATIONS

The silent globe check valve shall consist of a heavy cast iron body, bronze seat, bronze disc, and stainless steel spring. The valve disc shall be center guided at both ends with an integral shaft and shall be spring loaded for silent operation. The spring shall be helical or conical and stone tumbled to achieve a micro-finish to resist mineral deposits. For ease of maintenance, the seat and disc shall be replaceable in the field.

Check valve shall be capable of silent operation when installed in vertical or horizontal positions with either flow up or flow down. The flow area through the body shall be equal to or greater than the cross-section area of the equivalent pipe size. Sizes 2 1/2" to 10" shall allow bolting a wafer style butterfly valve directly to the outlet flange without a spool piece.

All materials of construction shall conform to ASTM specifications as follows:

- Valve Body:** Cast Iron ASTM A126 Class B
- Disc & Seat:** Bronze ASTM B584
- Spring:** Stainless Steel ASTM A313.5  
Stone Tumbled & Stress Relieved.

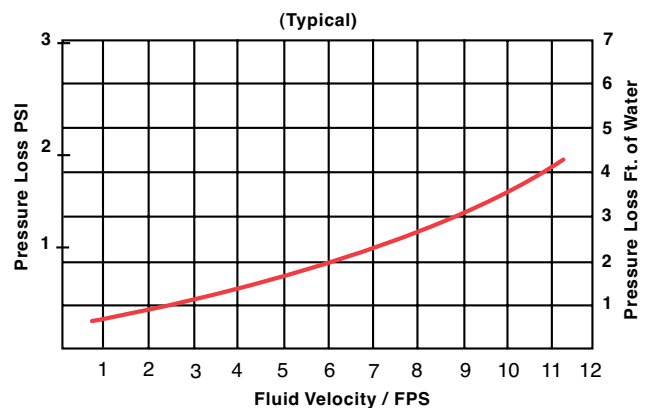
**Sizes:** 3" thru 10" shall accept a direct connected Butterfly Valve for isolation use and space saving in the pump station.

The valve shall be a Cla-Val Series 581 Silent Globe Check Valve.

**Note:** Cla-Val Series 581 Silent Globe Check Valve available in all 316 Stainless Steel Material.

Constructed of a cast iron body with bronze trim, the Cla-Val Silent Globe Check Valve offers watertight shutoff with metal-to-metal seating. For special applications, stainless steel trim is available and Buna-N® resilient seats are available as options. All materials conform to ASTM specifications, ensuring long lasting reliable performance. As a confirmation of Cla-Val's commitment to quality, 2 1/2" to 12" 125 lb. class Series 581 valves are Factory Mutual approved except those supplied with Buna-N® resilient seats.

Series 581 Pressure Loss Curve



MAXIMUM NON-SHOCK WATER SERVICE PRESSURE

TEMP DEG F.	MAXIMUM NON-SHOCK WATER SERVICE PRESSURE							
	GRAY IRON 125 LB. CLASS		DUCTILE IRON 150 LB. CLASS		GRAY IRON 250 LB. CLASS		DUCTILE IRON 300 LB. CLASS	
	2" - 12"	14" - 42"	2" - 12"	14" - 42"	2" - 12"	14" - 42"	2" - 12"	14" - 42"
0 - 150°	200	150	300	250	400	300	500	400
200°	190	135	280	230	370	280	460	370
250°	*	*	270	220	*	*	440	355
TEST PRES.	300	230	450	375	600	450	750	600

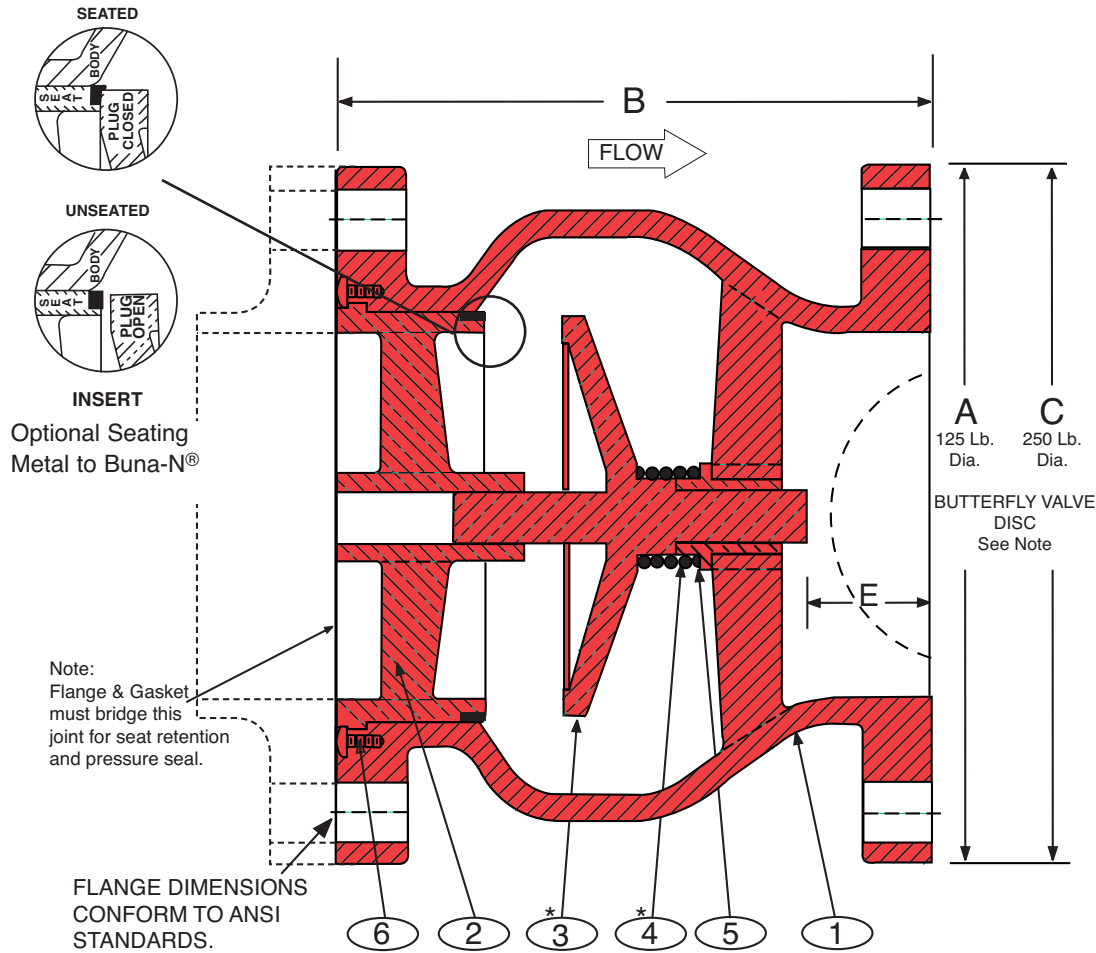
\* Ductile Iron Recommended For Hot Water Service Above 200° F.





\* APPROVED

# Silent Globe Check Valve SERIES 581



Note: Plug 3 & spring 4 compressed are shown in Open Position.

## Dimensions (In Inches)

		ANSI CLASS 125 and 250					
Model	Size	Weight Lbs		A	B	C	E
		125	250	125 Dia.		250 Dia.	
581	2 1/2	24	30	7	5 1/2	7 1/2	1
581	3*	29	36	7 1/2	6	8 1/4	1 3/8
581	4*	42	59	9	7 1/4	10	1 3/4
581	5*	52	78	10	8 1/2	11	2
581	6*	73	103	11	9 3/4	12 1/2	2 1/2
581	8*	126	179	13 1/2	12 1/2	15	3 1/4
581	10*	205	253	16	15 1/2	17 1/2	4 1/4
581	12*	306	401	19	14 1/4	20 1/2	Spool Piece is Needed
581	14	380	511	21	15 3/4	23	
581	16	501	697	23 1/2	17 5/8	29 1/2	
581	18	724	959	25	18 3/4	28	
581	20	890	1180	27 1/2	20 5/8	30 1/2	
581	24	1220	1680	32	24	36	
581	30	2000	2375	38 3/4	29 1/4	43	
581	36	4421	5511	46	45	50	
581	42	7203	8663	53	50	57	

Detail No.	Name	Material Description
1	Body	Cast Iron ASTM A126, Class B
2	Seat	Bronze ASTM B584**
3	Plug	Bronze ASTM B584
4	Spring	Stainless Steel T302 ASTM A313.5
5	Bushing	Bronze ASTM B584
6	Screw	Stainless Steel T316 ASTM A276

\*\*Optional Resilient Seat Available However Valve is not FM Approved

Temp. Rating	MAXIMUM SERVICE PRESSURE			
	ANSI B16.1 FLG. RATINGS			
	125 LB. CLASS		250 LB. CLASS	
	2" - 12"	14" - 42"	2" - 12"	14" - 42"
0-150° F	200	150	400	300
200° F	190	135	370	280
Test Pressure	300	230	600	450

**NOTE:** Butterfly Valve Disc sizes 3" to 10" designed to allow bolting a wafer style butterfly valve directly to the outlet flange without a spool piece.

\* FM Approved