



Series 580PH

Silent Wafer Check Valve

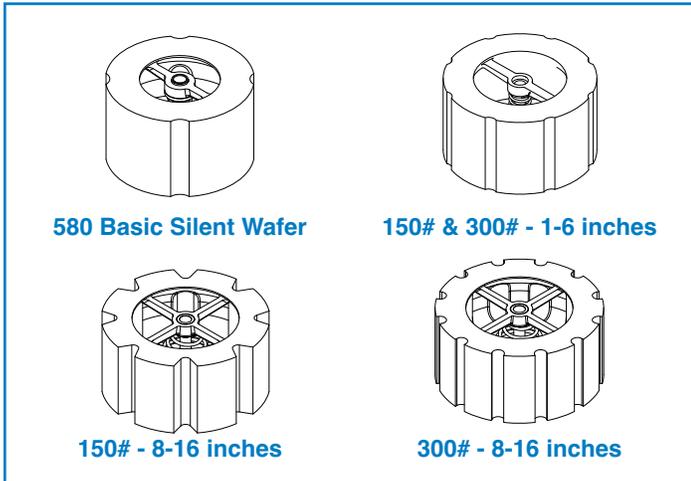


Product Advantages

- Operates Horizontally or Vertically
- Watertight Metal-to-Metal Seating
- Field Replaceable Parts

The Cla-Val Series 580 Silent Wafer 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. The short lay length of the valve allows for a space-saving design. Silent Wafer Check Valves are available in sizes 2" to 16", with 300# pressure class rating.

Constructed of an epoxy coated Ductile Iron body with stainless steel trim, the Cla-Val Silent Wafer Check Valve offers watertight shutoff with metal-to-metal seating. For special applications, Buna-N® resilient seats are available as options. All materials conform to applicable industry specifications, ensuring long lasting reliable performance.



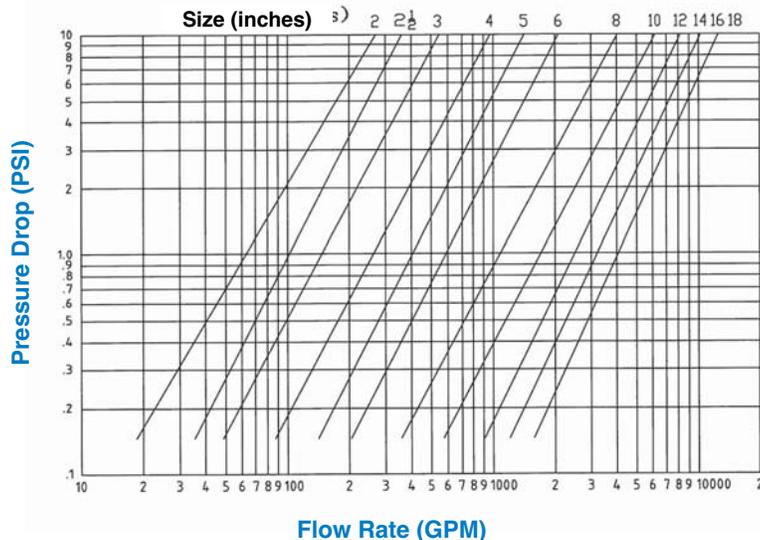
580 Basic Silent Wafer

150# & 300# - 1-6 inches

150# - 8-16 inches

300# - 8-16 inches

Silent Check Valve Pressure Drop Chart



Materials

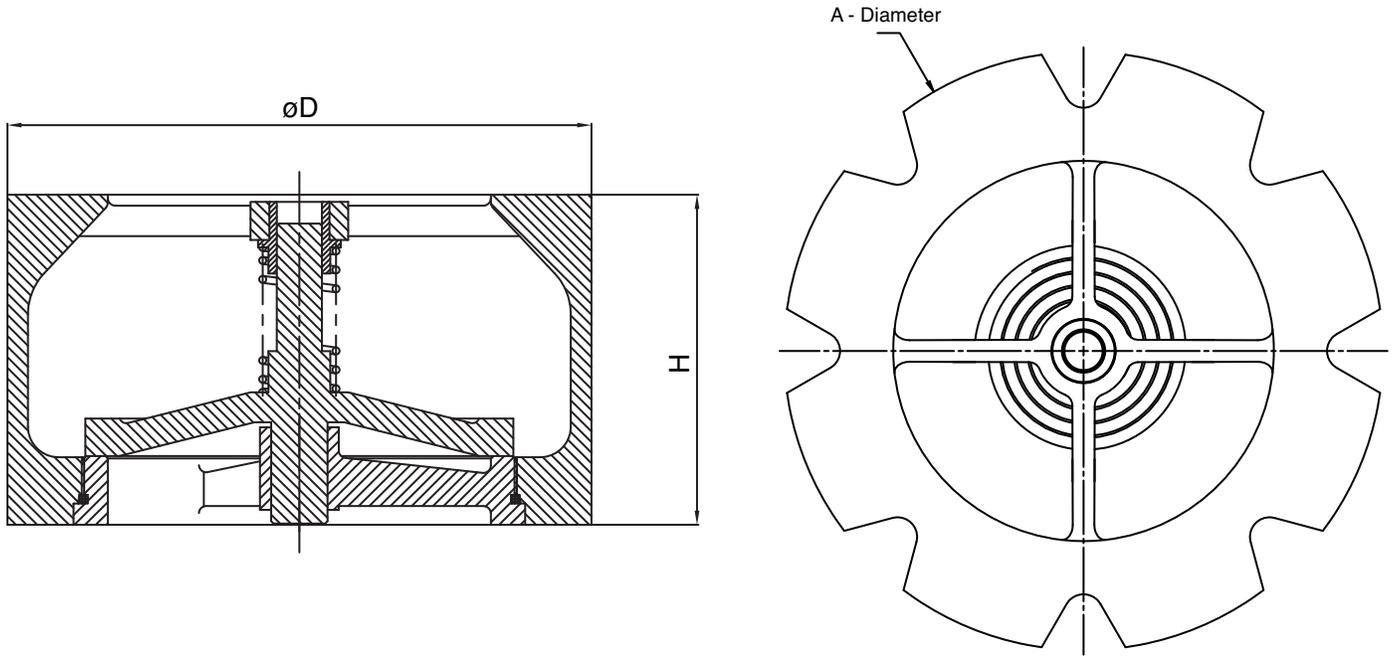
Valve Body:
Ductile Iron

Disc & Seat:
304 Stainless Steel
316 Stainless Steel

Spring:
SST316 Stainless Steel

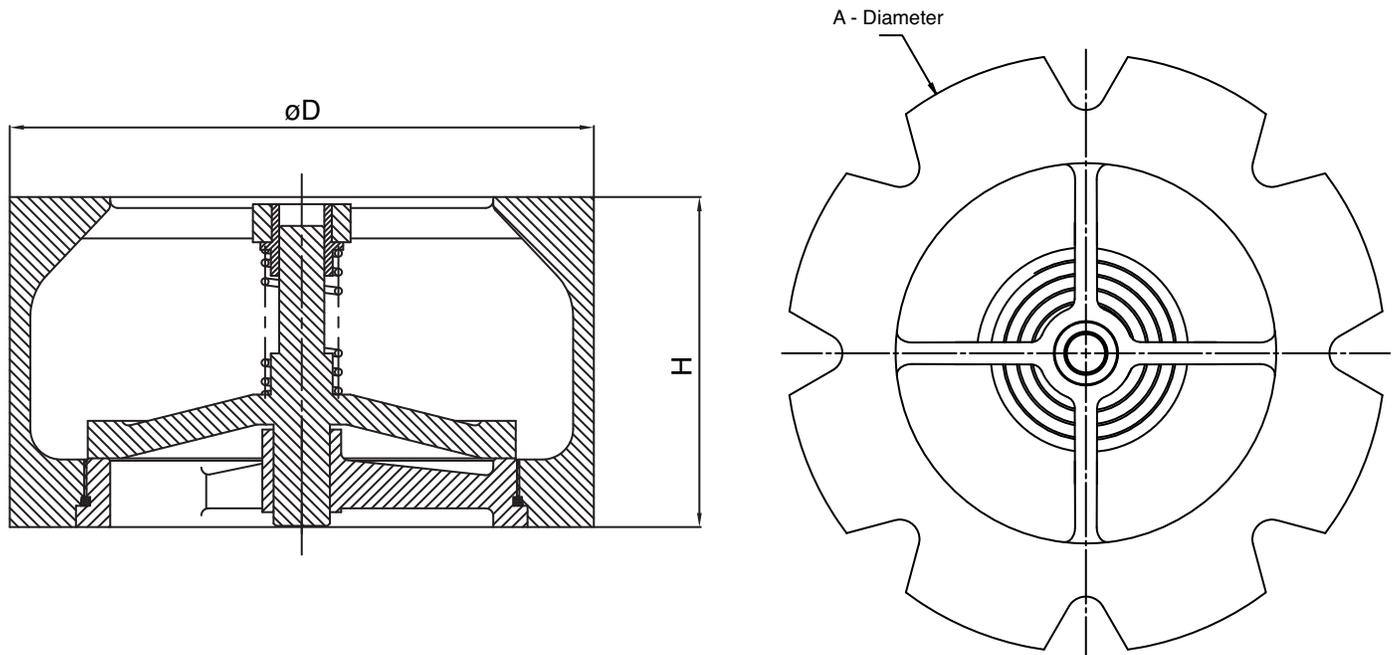
Note:
Standard offering is one-part epoxy coating interior and exterior WRAS Approved.

300 Class Silent Wafer Check Valve: 2 thru 6-inches/50 - 150mm



Valve Size (mm)	D	H
50	120	66.7
65	149	73.0
80	168	79.4
100	200	101.6
125	235	117.5
150	269	139.7

300 Class Silent Wafer Check Valve: 8 - 16-inches/200 - 400mm



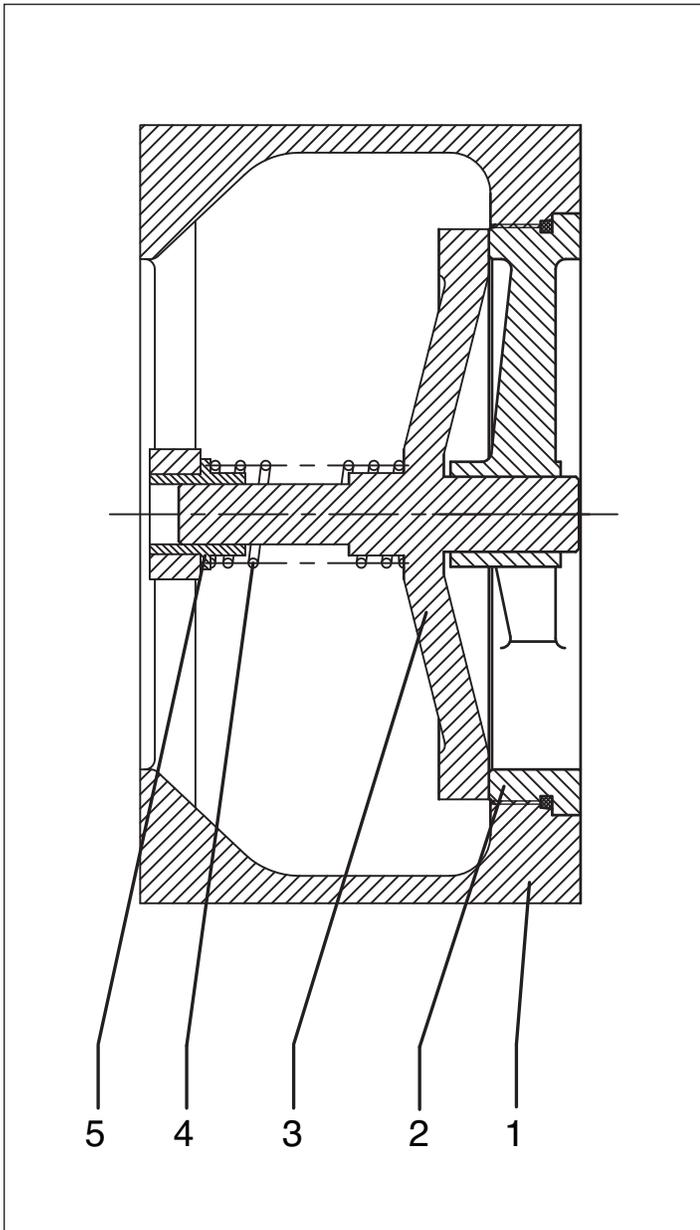
Valve Size (mm)	D	H	C	D
200	339.7	165.1	215.9	47.6
250	387	209.6	266.7	30.2
300	CF	CF	CF	CF
350	CF	CF	CF	CF
400	CF	CF	CF	CF

Specifications

The silent wafer check valve shall consist of a Ductile Iron body, stainless steel seat, 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.

580PH Series Silent Wafer Check Valve Technical Data



Item	Description	Qty	Material Description
1	Body	1	Ductile Iron ASTM A126 GR. B
2	Seat	1	SS ASTM A276 T304
3	Disc	1	SS ASTM A276 T304
4	Spring	1	SST 316
5	Bushing	1	SS ASTM A276 T304

Maximum Non-Shock Service Pressure Reference Chart (PSI/kPa)

Temp °F °C	Cast Iron ASTM A126 GR.B						Ductile Iron ASTM A536	
	Class 125#			Class 250#			Pressure Class	
	1-12" 25-300	14-24" 350-600	30" ≥ 750 ≥	1-12" 25-300	14-24" 350-600	30" ≥ 750 ≥	150	300
0-150 -18-66	—	—	—	—	—	—	—	—
-20-100 -29-38	—	—	—	—	—	—	250	640
							1724	4413
-20-150 -29-66	200 1379	150 1034	150 1034	500 3447	300 2068	300 2068	242 1669	620 4275
200 93	190 1310	135 931	115 793	460 3172	280 1931	250 1724	235 1620	600 4137
250 121	175 1207	125 862	85 586	415 2861	260 1793	200 1379	235 1620	582 4013
300 149	165 1138	110 758	50 345	375 2586	240 1655	150 1034	215 1482	565 3896
Seat Test PSI kPa	200 1379	150 1034	150 1034	500 3447	300 2068	300 2068	275 1896	720 4964
Shell Test PSI kPa	300 2068	230 1586	230 1586	750 5171	450 3103	450 3103	400 2758	975 6722

Typical Applications

Cla-Val 580PH Series Silent Wafer Check Valves are used anywhere a quick, quiet closure is desired and in the majority of pump applications, including the following;

- Fire Pump Applications
- Vertical Turbine Pumps
- Booster Pump Stations in High Rise Buildings
- House Pump Applications

°F PSI Inch
°C kPa Millimeter

• Sizes in shaded areas not available.
• 250/300# Pressure Classes not available.