Series 501P
Wafer Swing Check Valve

PRODUCT ADVANTAGES

- **Low Head Loss**
- **Spring Assisted, Fast Closure**
- **Extremely Light Weight**

DESCRIPTION

Cla-Val Series 501P Wafer Swing Check Valve has a quick, spring-assisted closure that minimizes the possibility of water hammer. The swing check design offers low head loss and a full-flow passageway making it ideal for water or wastewater applications. The short lay length of the valve allows for a space-saving design. It is available in sizes 2" to 24", PN16 rated.

Available in Cast Iron, the Cla-Val Wafer Swing Check Valve uses a standard soft seat. For ease of installation, valves 6" and larger are supplied with a tapped hole to mount an eye bolt for lifting. Materials conform to ASTM specifications, ensuring performance reliability.

SPECIFICATIONS

The wafer swing check valve shall have a torsional, spring-assisted fast closure to minimize possibility of water hammer. The valve shall be constructed of cast iron.

The body shall have a machined dovetail groove to retain a field replaceable EPDM Seat.

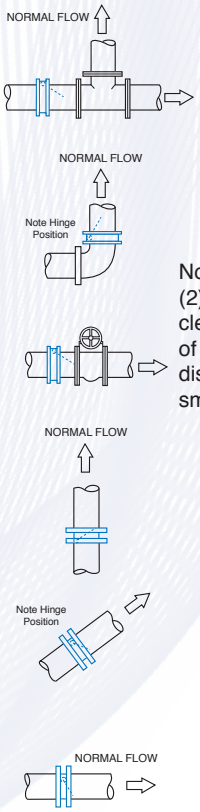
MATERIALS

Valve Body:
Cast Iron ASTM A126B
Disc:
Stainless Steel A351 CF8M
Seat:
EPDM

All materials conform to ASTM specifications, The valve shall be a Cla-Val Series 501P Wafer Swing Check Valve.

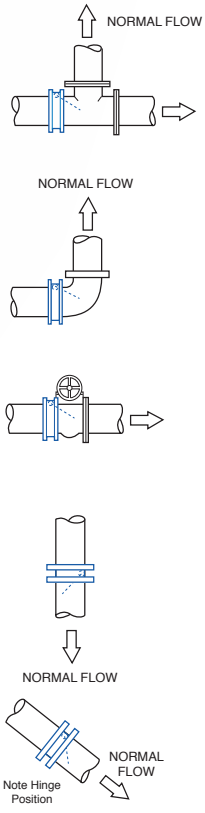
Testing to API 598 specifications.

Typical Applications with Correct Valve Location



Note: Allow minimum (2) pipe diameters clearance downstream of check valve with disc open to promote smooth flow

Avoid These Applications with Incorrect Valve Location



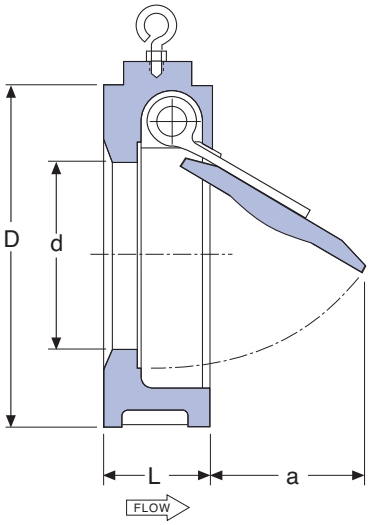
Recommendations for Installation Position

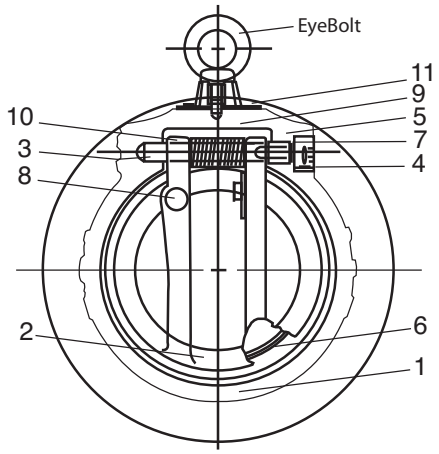
1. Install the valve in horizontal or upward flow for proper valve closure.
2. Caution: Do not use with reciprocating compressors, or in other pulsating services.

Series 501P - Wafer Swing Check Valves (Standard) 2" - 24"

Dimensions (In Inches)

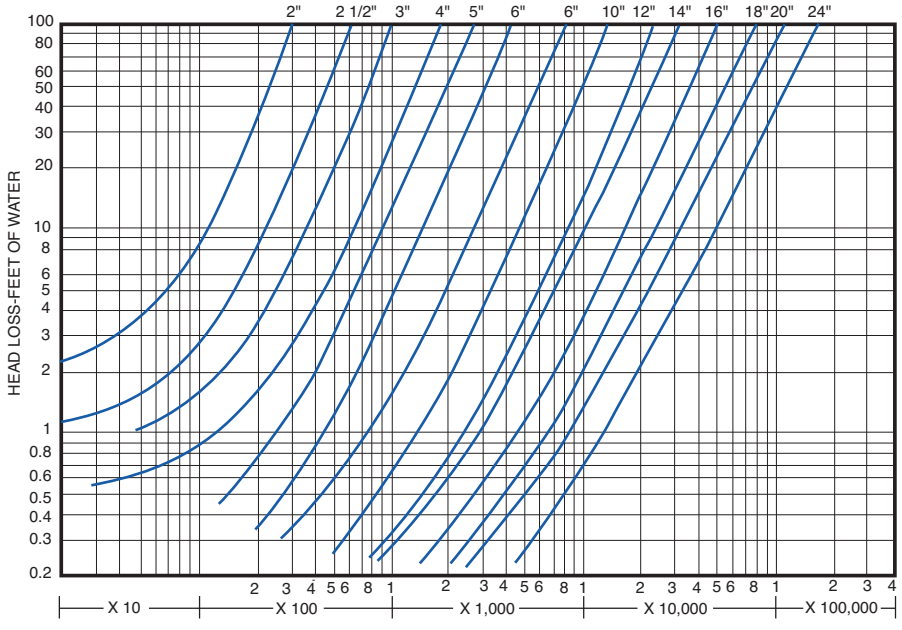
Size		L	D			a	d
DN	NPS		Table D/E	ANSI 125	EN 1092 PN16		
50	2	44.5	98	102	106	29	33
65	2 ½	48	111	121	126	30	47
80	3	51	130	134	141	56	52
100	4	57	162	172	161	75	76
125	5	63.5	194	194	191	95	95
150	6	70	216	220	217	114	121
200	8	73	273	277	272	156	168
250	10	79	337	337	337	187	194
300	12	86	384	407	382	222	241
350	14	108	444	447	446	229	267
400	16	108	495	511	515	248	318
450	18	108	558	546	550	300	356
500	20	140	615	602	610	324	387
600	24	152	723	715	733	387	423





No.	Description	Material	Specifications
1	Body	Cast Iron	ASTM A126B
2	Disc	316 Stainless Steel	ASTM A473 / A743M - CF8M
3	Shaft	316 Stainless Steel	ASTM A276
4	Plug	304 Stainless Steel	ASTM A276
5	Seat (Shaft)	EPDM	-
6	Seat (Body)	EPDM	Commercial
7	Bushing	316 Stainless Steel	ASTM A276
8	Travel Stop	316 Stainless Steel	ASTM A276
9	Tag	Aluminum	-
10	Spring	304 Stainless Steel	-

Series 501P Pressure Loss Curve



FLOW U.S. GALLONS PER MINUTE
MAXIMUM RECOMMENDED VELOCITY: 25 FEET PER SECOND

Technical Data

Pressure Rating: 16 bar
Temperature Range: -5° to 210° F
Disc Cracking Pressure:
All Valves equal approximately 0.5 psi
Fluids: Water, Wastewater, Chemicals and Petroleum

Be Informed:

Check valves are vital components of many systems. Their purpose is simple: to prevent the reversal of flow rather than stopping, starting, or throttling flow. Reverse flow may be merely a nuisance, or it can cause severe damage to equipment contamination of potable water supplies, or potentially hazardous conditions resulting from the uncontrolled mixing of various fluids in pipelines.

When ordering, please specify:

1. Catalog No. 501P
2. Valve Size
3. Seat O-Ring Material
4. Body & Trim Material

Valve Size	Inches	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	610
Cv Factor	Gal/Min	61	116	208	325	551	843	1640	2702	3996	5732	8548	11846	14327	22132
	Liters/Sec	3.85	7.32	13.12	20.5	34.76	53.18	103.47	170.47	252.11	361.63	539.29	747.36	903.89	1396.31