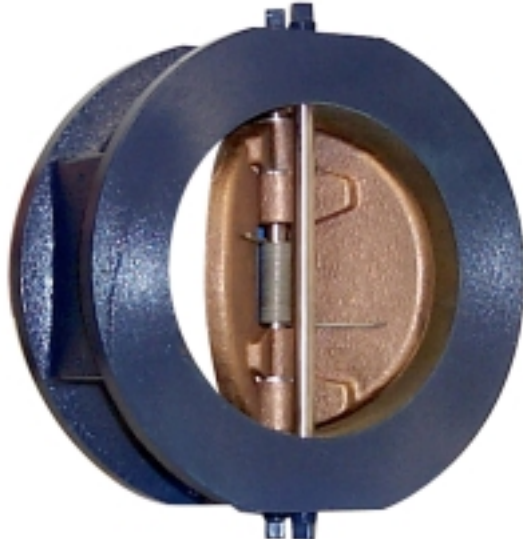


Two-Door Wafer Check Valve



SPECIFICATIONS

The two-door wafer check valve shall be compact wafer design, to fit between ANSI flanges. The check valve doors shall be spring-loaded closed, by means of one or more heavy-duty stainless steel torsion springs. Flow shall cause the doors to open and upon pump shut down, the torsion spring will shut the doors before reverse flow starts for non-slam closure.

Seating shall be resilient and watertight. The sealing element shall be Nitrile rubber molded to the body. Valves 6" and larger shall be fitted with a tapped hole to mount an eye bolt for lifting. The valve shall be a Cla-Val Series 582 Two-Door Wafer Check Valve..

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

Valve Body:	Ductile Iron	ASTM A536
	Cast Iron	ASTM A126, Class B
Doors:	2" - 12" Bronze	ASTM B584
	14" - 48" Aluminum Bronze	ASTM B148
Sealing Element:	Buna-N®	
Torsion Spring:	316 Stainless Steel	
Hinge:	316 Stainless Steel	
Stop:	316 Stainless Steel	
Sizes:	2" to 48"	

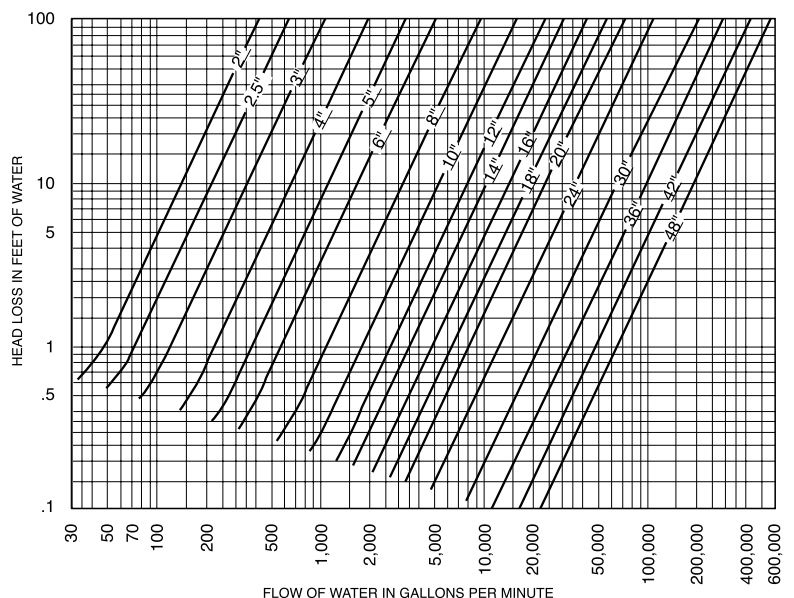
Other materials also available

- Low Head Loss
- Resilient Seat
- Non-Slam Closure
- Stabilizer Spheres Prevent Vibration Wear
- Factory Mutual Approved – Various Sizes

The Cla-Val Series 582 Two-Door Wafer Check Valve has torsion springs that force the two doors to shut with minimal flow reversal, reducing the water hammer potential that normally occurs with single-door swing check valves. To help reduce water hammer, the two-door design also reduces the travel distance from open to shutoff for a quicker response. Extremely short in lay length, the valve is both a compact and an economical solution. Two-Door Wafer Check Valves are available in sizes 2" to 48" with either a 125 lb. or 250 lb. pressure class rating.

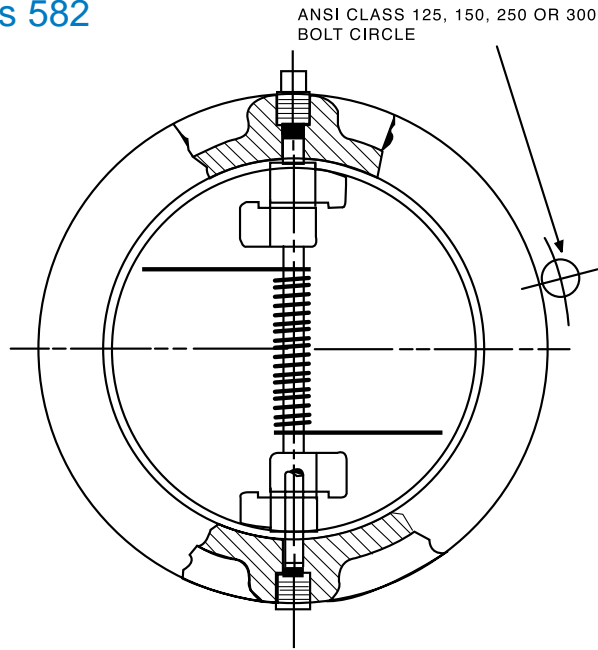
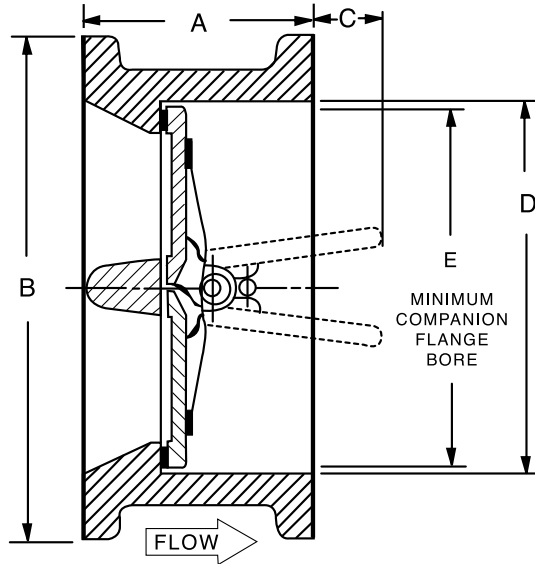
Although lighter in weight than globe style swing check valves, Cla-Val Two-Door Wafer Check Valves are designed for heavy-duty applications. For ease of installation, valves 6" and larger are supplied with a tapped hole to mount an eye bolt for lifting. All materials conform to ASTM specifications, ensuring long lasting reliable performance. As a confirmation of Cla-Val's commitment to quality, 2" to 12" 125 lb. class Series 582 valves are Factory Mutual approved.

Series 582 Pressure Loss Curve



Two-Door Wafer Check Valve

Series 582



Cla-Val Two-Door Wafer Check Valve conforms to following standards:
API 594,
ANSI B16.1
ANSI B16.5

Dimensions (In Inches)

Valve Size	MAX. Flow GPM	ANSI Class	A FACE TO FACE	B OUTSIDE DIAMETER	C	D	E	Wt. lbs.
2 *	125	125	2 1/8	4 1/8	3/16	2 9/16	1 5/16	5
		250	2 1/8	4 3/8	3/16	2 9/16	1 5/16	8
2 1/2 *	190	125	2 3/8	4 7/8	5/16	3 1/16	2 5/16	7
		250	2 3/8	5 1/8	5/16	3 1/16	2 5/16	10
3 *	290	125	2 5/8	5 3/8	1/2	3 11/16	2 7/8	9
		250	2 5/8	5 7/8	1/2	3 11/16	2 7/8	11
4 *	490	125	2 5/8	6 7/8	1	4 5/8	3 7/8	13
		250	2 5/8	7 1/8	1	4 5/8	3 7/8	16
5 *	720	125	3 1/4	7 3/4	1 1/8	5 11/16	4 13/16	19
		250	3 1/4	8 1/2	1 1/8	5 11/16	4 13/16	25
6 *	1200	125	3 3/4	8 3/4	1 1/4	6 3/4	5 3/4	26
		250	3 3/4	9 7/8	1 1/4	6 3/4	5 3/4	35
8 *	1900	125	5	11	1 5/8	8 3/4	7 5/8	49
		250	5	12 1/8	1 5/8	8 3/4	7 5/8	65

* FM Approved

INSTALLATION

Install the Cla-Val Series 582 Two-Door Wafer Check Valve between standard flanges in the horizontal or in the vertical flow up position.

NOTE: For horizontal flow this valve **MUST BE** installed with disc hinge pin in the **VERTICAL** position for proper operation.

Valve Size	MAX. Flow GPM	ANSI Class	A FACE TO FACE	B OUTSIDE DIAMETER	C	D	E	Wt. lbs.
10 *	3,000	125	5 1/2	13 3/8	2 1/2	10 7/8	9 9/16	85
		250	5 1/2	14 1/4	2 1/2	10 7/8	9 9/16	100
12 *	4,400	125	7 1/8	16 1/8	2 3/8	12 7/8	11 3/8	139
		250	7 1/8	16 5/8	3 1/8	12 7/8	11 3/8	167
14	6,500	125	7 1/4	17 3/4	3 1/4	14 3/8	12 1/2	185
		250	8 3/4	19 1/8	2 3/4	14 3/8	12 1/2	265
16	7,400	125	7 1/2	20 1/4	4 1/2	16 3/8	15	262
		250	9 1/8	21 1/4	3 3/4	16 3/8	14 5/16	359
18	9,000	125	8	21 5/8	5 3/8	18 3/8	17	316
		250	10 3/8	23 1/2	4 1/2	18 3/8	16 1/8	489
20	12,000	125	8 3/8	23 7/8	6 3/8	20 1/4	19	424
		250	11 1/2	25 3/4	5 1/8	20 1/4	17 15/16	650
24	26,000	125	8 3/4	28 1/4	8 1/2	24 1/4	23	589
		250	12	30 1/2	6 1/2	24 1/4	21 9/16	971
30	23,000	125	12	34 3/4	9 1/2	30	28 1/2	1112
		250	14 1/2	37 1/2	8 3/4	30	27 1/2	1522
36	48,000	125	14 1/2	41 1/4	12	36	34 1/2	1864
		250	18 7/8	44	11 1/4	36	33 1/4	2989
42	50,000	125	17	48	13 3/4	42	40 1/2	2889
		250	22 3/8	50 3/4	12 1/2	42	39	4676
48	65,000	125	20 5/8	54 1/2	17	48	46 1/2	4382
		250	24 3/4	58 3/4	14 1/2	48	44 1/2	6865



CLA-VAL

PO Box 1325 Newport Beach CA 92659-0325
Phone: 949-722-4800 • Fax: 949-548-5441

CLA-VAL CANADA, LTD.

4687 Christie Drive
Beamsville, Ontario
Canada LOR 1B4
Phone: 905-563-4963
Fax: 905-563-4040

CLA-VAL SA

Chemin des Mesanges 1
CH-1032 Romanel/
Lausanne, Switzerland
Phone: 41-21-643-15-55
Fax: 41-21-643-15-50

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