

Smart Solutions. Powerful Products.



1CD Check Valve

## Features and Benefits:

The 1CD series Wafer Dual Door Check Valve offers a one piece body constructed per API 594 standards. The body is completely isolated from external leakage. All shafts and plates are internally retained by utilizing an upper and lower retainer. Set screws secure these retainers during transportation and installation. After installation is complete, the flanges prevent the retainers from moving.

Rubber seats are installed using an innovative bonding process assuring seat stability under higher pressure and vacuum service. Metal seats are integral to the valve body. Many alloy seat materials are available as well as several hard-facing options such as Stellite #6 and Stellite #21. All 1CD series valves utilize a seat design that maintains complete seat seal contact with both plates. By lapping the sealing surface of the plates and metal seats, customers can be confident the ABZ 1CD check valve will maintain a positive seal under low and high pressures.

Corrosion resistant torsion springs are used to assist in valve closure. 1CD series torsion springs are designed with extension arms that apply pressure to precise areas of the plates assuring an even sealing against seats.

The 1CD series shaft is heavy duty and corrosion resistant allowing full support of the disc plates under high velocity flow as well as high pressure closure.

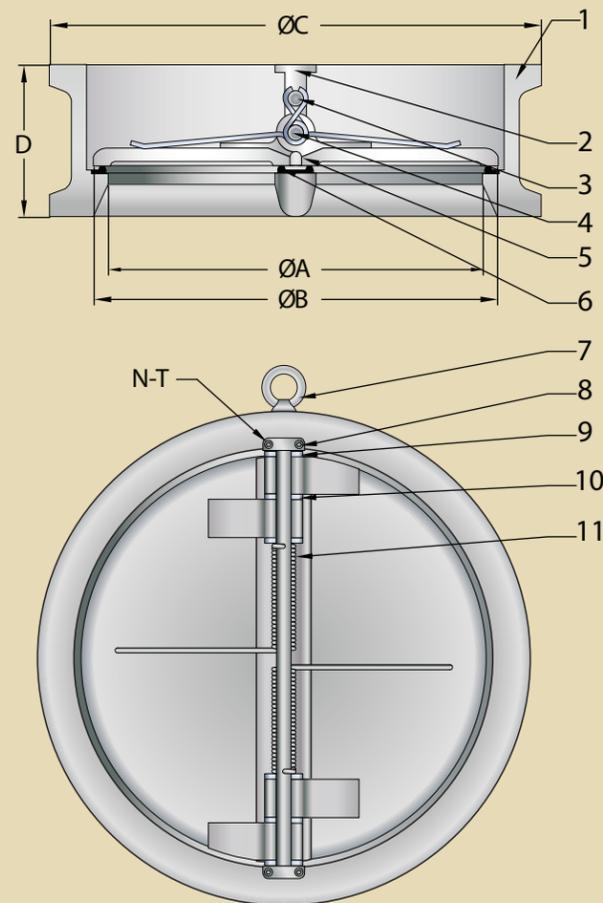
Thrust washers are used between all moving wear points to reduce friction and wear.

The 1CD series valve offers a broad range of materials allowing customers to select a valve construction that best suits the application.

Size range = 2" – 36" ANSI 125, 150 & 300

### Valve Description

Item No.	Part No.
1	Body
2	Pin Insert
3	Upper Stem
4	Lower Stem
5	Disc
6	Seat
7	Hook
8	Hex Screw
9	Body Bearing
10	Disc Bearing
11	Spring



### Class 125

Size		ØA	ØB	ØC	ØD	N-T	
(inch)	(mm)	(inch)	(inch)	(inch)	(inch)	Qty.	Size
2"	50	1.772	2.047	4.134	2.126	4	8-32 UNC
2.5"	65	2.244	2.599	4.882	2.126	4	8-32 UNC
3"	80	2.756	3.150	5.394	2.244	4	8-32 UNC
4"	100	3.622	4.173	6.890	2.520	4	8-32 UNC
5"	125	4.528	5.079	7.756	2.756	4	8-32 UNC
6"	150	5.433	6.063	8.740	2.992	4	8-32 UNC
8"	200	7.323	8.071	10.980	3.740	4	8-32 UNC
10"	250	9.055	10.079	13.386	4.252	4	8-32 UNC
12"	300	10.827	11.811	16.142	5.630	4	8-32 UNC
14"	350	12.756	13.780	17.756	7.244	4	10-24 UNC
16"	400	14.370	15.354	20.236	7.520	4	1/4-20 UNC
18"	450	15.748	16.929	21.614	7.992	4	1/4-20 UNC
20"	500	17.795	18.898	23.858	8.386	4	1/4-20 UNC
24"	600	21.575	23.288	28.268	8.740	4	5/16-18 UNC

### Class 150

Size		ØA	ØB	ØC	ØD	N-T	
(inch)	(mm)	(inch)	(inch)	(inch)	(inch)	Qty.	Size
2"	50	1.772	2.047	4.134	2.362	4	8-32 UNC
2.5"	65	2.244	2.599	4.882	2.638	4	8-32 UNC
3"	80	2.756	3.150	5.394	2.874	4	8-32 UNC
4"	100	3.622	4.173	6.890	2.874	4	8-32 UNC
5"	125	4.528	5.079	7.756	3.386	4	8-32 UNC
6"	150	5.433	6.063	8.740	3.858	4	8-32 UNC
8"	200	7.323	8.071	10.980	5.000	4	8-32 UNC
10"	250	9.055	10.079	13.386	5.748	4	8-32 UNC
12"	300	10.827	11.811	16.142	7.126	4	8-32 UNC
14"	350	12.756	13.780	17.756	7.244	4	10-24 UNC
16"	400	14.370	15.354	20.236	7.520	4	1/4-20 UNC
18"	450	15.748	16.929	21.614	7.992	4	1/4-20 UNC
20"	500	17.795	18.898	23.858	8.622	4	1/4-20 UNC
24"	600	21.575	23.288	28.268	8.740	4	5/16-18 UNC

### Class 300

Size		ØA	ØB	ØC	ØD	N-T	
(inch)	(mm)	(inch)	(inch)	(inch)	(inch)	Qty.	Size
2"	50	1.772	2.047	4.370	2.362	4	8-32 UNC
2.5"	65	2.244	2.599	5.118	2.638	4	8-32 UNC
3"	80	2.756	3.150	5.866	2.874	4	8-32 UNC
4"	100	3.622	4.173	7.126	2.874	4	8-32 UNC
5"	125	4.528	5.079	8.504	3.386	4	8-32 UNC
6"	150	5.433	6.063	9.882	3.858	4	8-32 UNC
8"	200	7.323	8.071	12.126	5.000	4	8-32 UNC
10"	250	9.055	10.079	14.252	5.748	4	8-32 UNC
12"	300	10.827	11.811	16.614	7.126	4	8-32 UNC
14"	350	12.756	13.780	19.134	8.740	4	10-24 UNC
16"	400	14.370	15.354	21.260	9.134	4	1/4-20 UNC
18"	450	15.748	16.929	20.504	10.394	4	1/4-20 UNC
20"	500	17.795	18.898	25.748	11.496	4	1/4-20 UNC
24"	600	21.575	23.288	30.511	12.520	4	5/16-18 UNC

Our goal is to become the leading provider of valves, valve related products and services in terms of customer satisfaction, safety and financial performance.

Our experienced management team and employees are dedicated to solving our customers' problems. We invest in long term relationships and cooperate on product development with our clients, we consider them our partners.

### OUR CORE VALUES

**No one gets hurt:** The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

**Integrity:** In everything we do, in every interaction, both internally and externally, we strive to operate with the upmost integrity and mutual respect.

**Customer focused:** Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

**Good place to work:** We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.



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