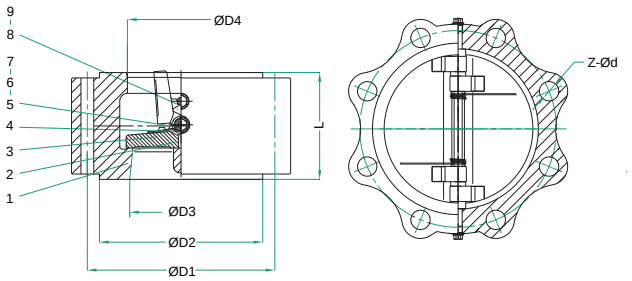
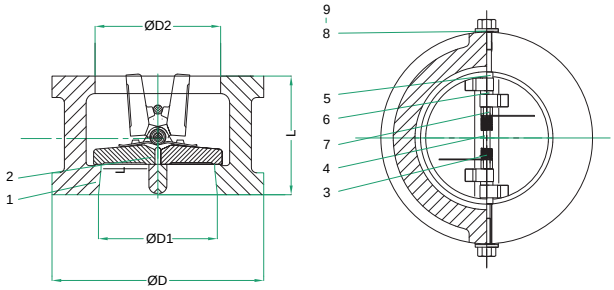
Dual Plate Wafer-Lug Type Check Valve



Dual Plate Wafer Type Check Valve



Features / Design

1.- Dual Plate Wafer Check Valves have been the preferred choice for decades due to their **proven reliability and low pressure drops.**

2.- Design according to API 594 & ASME B16.34.

3.- Investment cast components.

4.- **Low Pressure Drop.** Dual plate wafer check valves have larger open area than other designs, thus reducing pressure drop compared to swing, lift or other check valves.

5.- **Light Weight.** Reduces weight by 80–90% compared to conventional Flanged check valves.

6.- **Lower Cost.** Light weight, compact profiles and the elimination of flanges allows valves to be manufactured more economically than other designs, especially as pipe diameters increase.

7.- **Alleviates Water Hammer.** Our spring activated discs are designed to close our valves quickly. This assures high performance, eliminating chatter and creating dynamic responsiveness in a non-slam design.

8.- **Simple Installation.** Easier to install, remove and replace in both new and existing piping systems.

9.- Small and light quick reaction, vertical and horizontal bubble tight.

10.- No sampling, plates start closing against the flow before the stops.

11.- Seats: NBR / EDPM / VITON / METAL.

12.- Ends: Wafer & Lug (ASME B16.5 & B16.47).

13.- Face to Face according to API 594.

14.- Pressure - Temperature rating acc. to ASME B16.34.

15.- Pressure test according to API 598.

Material List

NO.	PART NAME	MATERIAL
1	BODY	ASTM A216 WCB / A351 CF8M
2	DISC	ASTM A351 CF8M
3	SPRING	INCONEL X750
4	HINGE PIN	ASTM A182 F316
5	END RETAINER RING	ASTM A182 F316
6	MIDDLE RETAINER RING	ASTM A182 F316
7	SPRING RETAINER	ASTM A182 F316
8	WASHER	ASTM A182 F316
9	SCREW	ASTM A182 F316

Dimensions (inches)

LUG TYPE - ASME CLASS 150#

Dual Plate Lug Type Check Valve											
SIZE	L (in)	ØD1 (in)	ØD2 (in)	ØD3 (in)	ØD4 (in)	Z (in)	Ød (in)	W (in)	Weigth (Lb)	CV (USgal/min)	Minimun Opening Pressure (psi)
2”	2.362	4.744	3.622	2.008	2.205	4	0.748	0.079	8.818	74.0	29.00
3”	2.874	6.004	5.000	3.150	3.465	4	0.748	0.079	15.432	201.0	29.00
4”	2.874	7.500	6.181	4.016	4.252	8	0.748	0.079	24.251	338.0	29.00
6”	3.858	9.508	8.504	5.984	6.299	8	0.866	0.079	41.888	878.0	29.00
8”	5.000	11.752	10.630	7.992	8.268	8	0.866	0.079	79.366	1675.0	29.00
10”	5.748	14.252	12.756	10.000	10.472	12	0.984	0.079	134.482	2726.0	29.00
12”	7.126	17.008	15.000	12.008	12.205	12	0.984	0.079	262.350	4301.0	29.00
14”	7.244	18.740	16.260	13.780	13.976	12	1.142	0.079	288.806	6171.0	29.00
16”	7.520	21.260	18.504	15.748	15.945	16	1.142	0.079	396.832	8548.0	29.00
18”	7.992	22.756	20.984	17.717	17.913	16	1.260	0.079	447.539	10818.0	29.00
20”	8.622	25.000	22.992	19.685	19.882	20	1.260	0.079	606.272	13356.0	29.00
24”	8.740	29.508	27.244	23.622	23.819	20	1.378	0.079	692.252	20560.0	29.00

WAFER TYPE - ASME CLASS 150#

Dual Plate Wafer Type Check Valve							
SIZE	L (in)	ØD (in)	ØD1 (in)	ØD2 (in)	Weigth (Lb)	CV (USgal/min)	Minimun Opening Pressure (psi)
2”	2.362	4.055	2.008	2.005	4.409	74	29.00
2 1/2“	2.638	4.803	2.559	2.874	6.614	128	29.00
3”	2.874	5.315	3.150	3.465	8.818	201	29.00
4”	2.874	6.811	4.016	4.252	13.228	338	29.00
5“	3.386	7.677	5.000	5.197	19.842	557	29.00
6”	3.858	8.661	5.984	6.299	28.660	878	29.00
8”	5.000	10.906	7.992	8.268	55.116	1675	29.00
10”	5.748	13.268	10.000	10.472	81.571	2726	29.00
12”	7.126	16.024	12.008	12.205	136.687	4301	29.00
14”	7.244	17.638	13.780	13.976	187.393	6171	29.00
16”	7.520	20.157	15.748	15.945	242.509	8548	29.00
18”	7.992	21.535	17.717	17.913	275.578	10818	29.00
20”	8.622	23.780	19.685	19.882	352.740	13356	29.00
24”	8.740	28.150	23.622	23.819	628.318	20560	29.00
28”	12.008	30.433	27.559	27.559	837.757	27985	29.00
30”	12.008	32.441	29.370	29.528	903.896	32126	29.00
32”	12.008	34.567	31.496	30.512	1124.358	36552	29.00
36”	14.488	38.701	34.409	35.197	1410.960	46261	29.00
40”	17.008	42.913	39.370	39.370	1918.023	57112	29.00
48”	20.630	51.260	47.244	46.063	3086.474	82242	29.00

Dimensions (inches) - Cont.

LUG TYPE - ASME CLASS 300#

Dual Plate Lug Type Check Valve											
SIZE	L (in)	ØD1 (in)	ØD2 (in)	ØD3 (in)	ØD4 (in)	Z (in)	Ød (in)	W (in)	Weigth (Lb)	CV (USgal/min)	Minimun Opening Pressure (psi)
2”	2.362	5.000	3.622	2.008	2.283	8	0.748	0.079	13.228	74.0	29.00
3”	2.874	6.634	5.000	3.150	3.465	8	0.866	0.079	22.046	201.0	29.00
4”	2.874	7.874	6.181	4.016	4.252	8	0.866	0.079	35.274	338.0	29.00
6”	3.858	10.630	8.504	5.984	6.299	12	0.866	0.079	70.548	878.0	29.00
8”	5.000	12.992	10.630	7.992	8.268	12	0.984	0.079	121.254	1675.0	29.00
10”	5.748	15.256	12.756	10.000	10.472	16	1.142	0.079	180.779	2726.0	29.00
12”	7.126	17.756	15.000	12.008	12.205	16	1.260	0.079	286.601	4301.0	29.00
14”	8.740	20.256	16.260	13.780	13.976	20	1.260	0.079	553.361	6171.0	29.00
16”	9.134	22.500	18.504	15.748	15.945	20	1.378	0.079	753.982	8548.0	29.00
18”	10.394	24.744	20.984	17.717	17.913	24	1.378	0.079	862.008	10818.0	29.00
20”	11.496	27.008	22.992	19.685	19.882	24	1.378	0.079	1181.679	13356.0	29.00
24”	12.520	32.008	27.2t44	23.622	23.937	24	1.614	0.079	1836.452	20560.0	29.00

WAFER TYPE - ASME CLASS 300#

Dual Plate Wafer Type Check Valve							
SIZE	L (in)	ØD (in)	ØD1 (in)	ØD2 (in)	Weigth (Lb)	CV (USgal/min)	Minimun Opening Pressure (psi)
2”	2.362	4.331	2.008	2.005	6.614	74	29.00
2 1/2“	2.638	5.039	2.559	2.874	8.818	128	29.00
3”	2.874	5.787	3.150	3.465	13.228	201	29.00
4”	2.874	7.047	4.016	4.252	17.637	338	29.00
5“	3.386	8.425	5.000	5.197	28.660	557	29.00
6”	3.858	9.803	5.984	6.299	39.683	878	29.00
8”	5.000	12.008	7.992	8.268	68.343	1675	29.00
10”	5.748	14.134	10.000	10.472	112.436	2726	29.00
12”	7.126	16.535	12.008	12.205	180.779	4301	29.00
14”	8.740	19.016	13.780	13.976	257.941	6171	29.00
16”	9.134	21.142	15.748	15.945	374.786	8548	29.00
18”	10.394	23.386	17.717	17.913	440.925	10818	29.00
20”	11.496	25.669	19.685	19.882	584.225	13356	29.00
24”	12.520	30.394	23.622	23.937	903.896	20560	29.00
28”	14.488	32.323	27.559	27.559	1278.682	27985	29.00
30”	14.488	34.724	29.370	29.528	1455.052	32126	29.00
32”	14.488	36.850	31.496	30.512	2138.486	36552	29.00
36”	19.016	41.102	34.409	35.197	2248.717	46261	29.00
40”	21.496	45.118	39.370	39.370	2625.708	57112	29.00
48”	24.764	53.740	47.244	46.063	4982.451	82242	29.00

Dimensions (inches) - Cont.

LUG TYPE - ASME CLASS 600#

Dual Plate Lug Type Check Valve											
SIZE	L (in)	ØD1 (in)	ØD2 (in)	ØD3 (in)	ØD4 (in)	Z (in)	Ød (in)	W (in)	Weigth (Lb)	CV (USgal/min)	Minimun Opening Pressure (psi)
2”	2.362	5.000	3.622	2.008	2.283	8	0.748	0.276	13.228	74.0	29.00
3”	2.874	6.634	5.000	3.150	3.543	8	0.866	0.276	22.046	201.0	29.00
4”	3.110	8.504	6.181	4.016	4.331	8	0.984	0.276	46.297	338.0	29.00
6”	5.354	11.496	8.504	5.984	6.378	12	1.142	0.276	121.254	878.0	29.00
8”	6.496	13.740	10.630	7.874	8.346	12	1.260	0.276	207.235	1675.0	29.00
10”	8.386	17.008	12.756	9.843	10.472	16	1.378	0.276	361.558	2726.0	29.00
12”	9.016	19.252	15.000	12.008	12.283	20	1.378	0.276	469.585	4301.0	29.00
14”	10.748	20.748	16.260	13.268	13.780	20	1.496	0.276	756.186	6171.0	29.00
16”	12.008	23.740	18.504	15.236	15.748	20	1.614	0.276	1049.401	8548.0	29.00
18”	14.252	25.748	20.984	17.244	17.717	20	1.732	0.276	1510.168	10818.0	29.00
20”	14.488	28.504	22.992	19.252	19.685	24	1.732	0.276	2001.799	13356.0	29.00
24”	17.244	32.992	27.244	23.268	23.622	24	2.047	0.276	2398.631	20560.0	29.00

WAFER TYPE - ASME CLASS 600#

Dual Plate Wafer Type Check Valve							
SIZE	L (in)	ØD (in)	ØD1 (in)	ØD2 (in)	Weigth (Lb)	CV (USgal/min)	Minimun Opening Pressure (psi)
2”	2.362	4.331	2.008	2.283	6.614	74	29.00
2 1/2“	2.638	5.039	2.559	2.874	11.023	128	29.00
3”	2.874	5.787	3.150	3.465	15.432	201	29.00
4”	3.110	7.520	4.016	4.331	22.046	338	29.00
5“	4.134	9.409	5.000	5.315	44.092	557	29.00
6”	5.354	10.394	5.906	6.378	57.320	878	29.00
8”	6.496	12.520	7.992	8.346	110.231	1675	29.00
10”	8.386	15.669	9.843	10.472	220.462	2726	29.00
12”	9.016	17.913	12.008	12.283	308.647	4301	29.00
14”	10.748	19.291	13.268	13.976	485.017	6171	29.00
16”	12.008	22.126	15.748	15.748	793.665	8548	29.00
18”	14.252	24.016	17.717	17.717	870.827	10818	29.00
20”	14.488	26.772	19.685	19.685	1141.995	13356	29.00
24”	17.244	30.945	23.622	23.622	1843.066	20560	29.00
28”	19.016	32.087	27.165	27.165	2667.596	27985	29.00
30”	19.882	34.449	29.134	29.134	2866.012	32126	29.00
32”	20.984	36.535	30.866	30.866	3240.798	36552	29.00
36”	25.000	41.142	34.646	34.646	4409.249	46261	29.00
40”	/	/	/	/	/	/	/
48”	/	/	/	/	/	/	/

How to Order

BODY DESIGN (SERIES)	DISC DESIGN	MATERIAL			ENDS	CLASS	SIZE[5]
		BODY	TRIM[4]	SEAT			
74D Wafer Check Valve Double Disc Design	NONE Std. Design API 594	20 A216 WCB	10 CF8M/CF8M/CF8M	NONE Metal to Metal	W Wafer	0 ANSI 150#	02 2"
	6D API 6D	21 A216 WCC	50 WCB / A217 CA15 / WCB+13%CR	E EPDM	L Lug	3 ANSI 300#	02.5 2 1/2"
	ND NACE / API 6D	22 A350 LCB[1]	51 A217 C5 / A217 CA15 / WCB+13%CR	B NBR	J Lug RTJ	6 ANSI 600#	03 3"
		23 A352 LC3[1]	52 A217 CA15 / A217 CA15 / WCB+13%CR	V Viton	D Doble Brida RF	9 ANSI 900#	04 4"
		24 A217 WC1	53 A351 CF8 / A352 LCB+304 / A352 LCB+304	N Neoprene	R Doble Brida RTJ	1 ANSI 1500#	05 5"
		25 A217 WC6[2]	54 A352 LCB / A352 LCB+304 / A352 LCB+304		B Buttweld	2 ANSI 2500#	06 6"
		26 A217 WC9[2]	60 CAST IRON				08 8"
		27 A217 C5[2]					10 10"
		28 A217 C12[1]					12 12"
		30 A351 CF8M[3]					14 14"
		31 A351 CF3M[3]					16 16"
		32 A351 CF8[3]					18 18"
		33 A351 CF3[3]					20 20"
		40 Monel					24 24"
		41 Alloy 20					26 26"
		42 Hastelloy					28 28"
		43 A182 Gr321					30 30"
		44 A182 Gr347					36 36"
		45 Duplex					40 40"
		60 CI / DI					42 42"
							48 48"

Example:

Double Disc Check Valve, Body ASTM A216 Gr. WCB, Disc 316SS,
Metal to Metal Seat, Water ANSI Class 300# Size 12".

74D2010W312

NOTES:
(1) Low temperature service.
(2) High temperature service.
(3) Stainless steel.
(4) Seat (If seat is metal seat) / Disc / Hinge Pin.
(5) Please contact us for more available sizes.