

Howell Wafer Check Valve

SPECIFICATIONS:

- Compact one piece design for use between ANSI 125/150lb flanges.
- Standard cast iron body. Optional ductile iron body available upon request.
- Cost effective and weighs less than traditional flanged swing check valves.
- Spring loaded dual discs helps prevent slamming. As the flow of the media decreases the discs close without the need of reverse flow.
- Low cracking opening pressure of only 3 psi.
- Standard resilient Buna seat for bubble tight seal. Optional EPDM available.
- Corrosion resistant disc, stem and springs.
- For correct positioning the valve body is marked with a flow direction arrow.
- Constructed with Lead Free materials
- Size Range: 2" to 24"



STANDARDS:

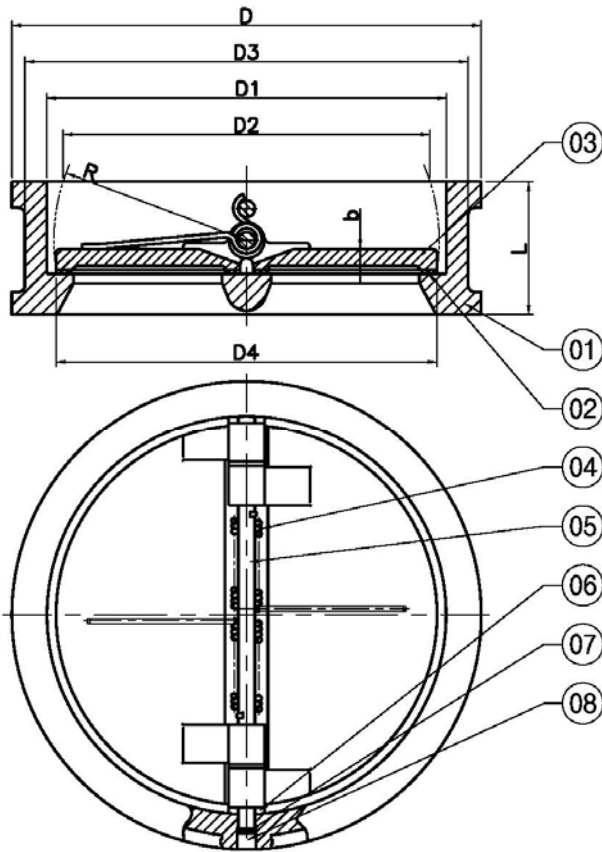
Valve Design - API 594

Flange Dimensions – ASME/ANSI B16.5

Pressure / Temperature Rating – ASME/ANSI B16.34

Valve Inspection & Pressure Testing – API 598 and MSS-SP-61

ST WAFER CHECK



MATERIALS LIST:

Item	Part	Material	Quantity
1	Body	Cast Iron ASTM A126 *	1
		Ductile Iron ASTM A536	
2	Seat	BUNA-N (NBR) *	1
		-12-82°C / -10-180°F max EPDM -30-110°C / -22-230°F	
3	Disc	ASTM A351 CF8M	2
4	Spring	ASTM A276 316 SS	2
5	Stem	ASTM A582 416 SS	2
6	Washer	PTFE	2
7	Stem Seal	BUNA-N (NBR)	2
8	Bolts	Carbon Steel	1

* Standard

VALVE WEIGHTS

SIZE	(KG)	(LB)
2"	1.6	3.5
2-1/2"	2.4	5.3
3"	3.7	8.0
4"	4.6	10.0
5"	7.3	16.1
6"	9.5	20.8
8"	10.7	23.6

SIZE	(KG)	(LB)
10"	25.8	56.8
12"	37.6	82.9
14"	55.0	121.3
16"	104.0	229.2
18"	107.0	235.9
20"	112.4	247.8
24"	175.6	387.0

DIMENSIONS & CV VALUES:

SIZE	D		D1		D2		D3		D4		L		R		b		Cv Values U.S. GPM
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
2"	4.0	102	2.6	65	1.7	43	3.6	91	2.2	55	2.1	54	1.1	29	0.2	5	48
2-1/2"	4.8	121	3.1	80	2.4	60	4.2	106	2.8	70	2.4	60	1.4	36	0.2	6	150
3"	5.3	134	3.7	94	2.6	66	4.7	120	3.3	84	2.6	67	1.7	43	0.3	7	150
4"	6.8	172	4.6	117	3.6	91	5.6	143	4.2	106	2.6	67	2.1	53	0.4	9	394
5"	7.6	194	5.7	145	4.6	117	6.7	171	5.2	132	3.3	83	2.6	66	0.4	9	900
6"	8.7	220	6.7	170	5.7	145	7.9	200	6.1	154	3.7	95	3.1	79	0.4	11	900
8"	10.9	277	8.8	224	7.8	198	10.0	254	8.1	205	5.0	127	4.1	104	0.6	14	1,589
10"	13.3	337	10.4	265	9.2	234	11.7	297	9.9	252	5.5	140	5.0	127	0.6	15	3,300
12"	16.0	407	12.2	310	11.0	279	13.8	350	11.5	292	7.1	181	5.7	146	0.7	17	3,926
14"	17.6	448	14.2	360	12.9	328	16.1	408	13.4	340	7.2	184	6.7	170	0.7	19	5,418
16"	20.2	512	16.1	410	14.8	376	18.1	460	15.4	390	7.5	191	7.7	195	0.9	22	8,256
18"	21.5	547	17.7	450	16.3	414	20.0	508	16.9	430	8.0	203	8.5	215	1.0	26	10,452
20"	23.8	604	19.9	505	18.4	468	22.1	561	19.0	482	8.4	213	9.5	241	1.0	26	14,251
24"	27.6	700	24.6	624	22.4	570	26.8	680	23.1	588	8.7	222	11.6	294	1.0	26	26,511

➤ The stem shaft should be in the vertical position for horizontal flow application