



YDF VALVE INTERNATIONAL, INC.



Gate, Globe, & Check Valves

Company Overview & Engineering Specifications



PREMIER QUALITY. PREMIER PERFORMANCE.

Growing Legacy.

Already one of China's leading legacy valve manufacturers, Jiangsu YDF Valve Co. Ltd. continues its commitment to deliver superior quality industrial products to the Western Hemisphere with its new growth venture, YDF Valve International (YVI). Headquartered in Houston, Texas, YVI brings more than two centuries of collected experience and unrivaled passion to an industry thirsting for a fearlessly innovative and ultimately reliable valve manufacturing solution able to take on the ever-evolving global requirements while also providing a competitive advantage and world-class lead times to its customers. Confident in its unique capabilities and evolving strengths, YVI's goal is to be recognized as a preferred global manufacturer of cast valves.

Integrated Manufacturing & Design.

YVI utilizes an integrated manufacturing process through Jiangsu YDF Valve Co., Ltd, to produce its full product range. This integrated manufacturing process consists of two professional casting foundries and three specialized machining, assembly, and testing plants for gate, globe and check products, as well as one ball valve manufacturing plant totaling 180,000 (1.91M ft²) of manufacturing expertise. Placing top priority on quality to ensure every YVI valve meets the strictest requirements and environmentally conscientious practices, its process utilizes in-house testing centers specialized in high pressure gas, hydrostatic, cryogenic, high temperature, fire, fugitive emissions, and other cutting edge testing capabilities – including every type of non-destructive testing to ensure YVI valves meet each varying industry standard and specification. Drawing on skills honed from hours of dedicated labor and knowledge obtained through the carefully orchestrated interplay of forging concept to life, there's no wonder YVI is known for its crafted reputation.

Quality Guaranteed.

YVI tests every valve for 100% compliance to the API598 standard. Having undergone the most rigorous quality compliance measures and strenuous testing procedures, YVI guarantees its valves will conform to the applicable API 600, API 603, API 623, ASME B16.34, API 594, API 624, API 6D, ISO15848-1, CE/PED standards. Demanding a level of reliability and craftsmanship unrivaled in the industry, it is YVI's goal not only to meet but always exceed the need of its customer.

Out of this commitment and drive to be recognized as the world's next premier valve manufacturer is YVI born.



1. ISO 9001:2015
2. ISO 14001:2015
3. OSHAS 18001:2007
4. CE / PED
5. UKCA
6. BV
7. ABS
8. CRN
9. ISO 15848-1, -2
10. API 624
11. API 594
12. API 600
13. API Q1
14. API 6D

Certified Performance.

Jiangsu YDF Valve Co. Ltd. places the greatest emphasis on the achievement and retention of certification from many leading global agencies governing the manufacturing of cast industrial valves. These certificates are part of the bedrock and promise of YVI Valve to remain in full compliance with the latest editions of global industry standards. This commitment begins with the Li family ownership and is carried out by its valued employees, every day.

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Molding the Future: Our Foundries.

Beginning in 1978 with Mr. Li's ambitious vision to create the next premier valve manufacturer, Jiangsu YDF Valve Co. Ltd., soon expanded into two world-class foundries totaling 670,000 ft² (63,000 m²) capable of outputting over 30,000 tons of annual capacity to meet the growing global demand for quality industrial valves. Cast solely from the highest-grade metals under the strictest chemical controls and pouring practices, YVI valves are perfectly molded to meet the most rigorous requirements of the future.



Building Beyond the Past: Our Factories.

Mr. Li began YDF Valve with one simple philosophy: build a valve of unrivaled artisanship and performance. At each step of the manufacturing process spanning four state-of-the-art factories covering over 1.3M ft² (129,000 m²) of advanced machining, assembly, and testing capabilities, YVI demands a level of precise craftsmanship discoverable in every part, detail, and finish. Drawing upon the talents of its meticulous engineers and dedicated craftspeople with a tireless attention to quality and reliability, YVI uses an integrated manufacturing process through Jiangsu YDF Valve Co. Ltd. to produce its full product range of premier valves. Honoring the work begun by his father, Mr. Harvey Li builds upon the legacy of the past to create the next evolution in manufacturing world-class valves: YDF Valve International (YVI).



YVI VALVE - CAST STEEL **GATE, GLOBE, & CHECK VALVES**

YVI Cast Steel Gate, Globe, and Check Valves are designed, manufactured, and tested in accordance with ASME B16.34, API 600, API 594, API 623, and API 598. Items have been examined in accordance with API RP-591 and are Low Emissions Certified to API 624, ISO 15848-1, and TA Luft. YVI offers sizes ranging from 2" through 60" diameters in pressure classes 150# through 2500# with end configurations in either RFFE, RTJ, and Butt weld. YVI also has the capabilities to automate valves in-house using pneumatic, hydraulic, or electric actuation. Common materials of construction such as WCB, LCB, LCC, WC6, WC9, and C5 are all available along with other materials upon request. To ensure casting quality, all pressure-containing castings are produced in-house.



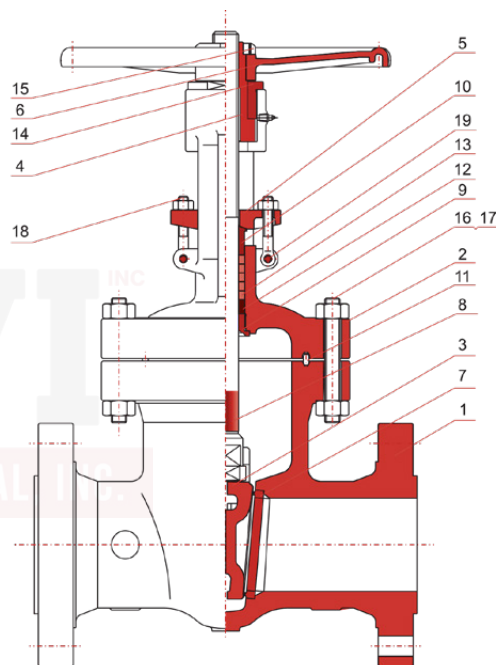
YVI Valve - Cast Steel Gate Valve

Design Features

- API 624 / ISO 15848-1 Low Fugitive Emission Compliant
- Flexible Wedge (NPS 2.5 and Larger)
- Seal Welded Seat Rings
- Gland Eye Bolt Pins are Welded on Both Ends
- 26" and Larger Items have Hard-faced Wedge Guides

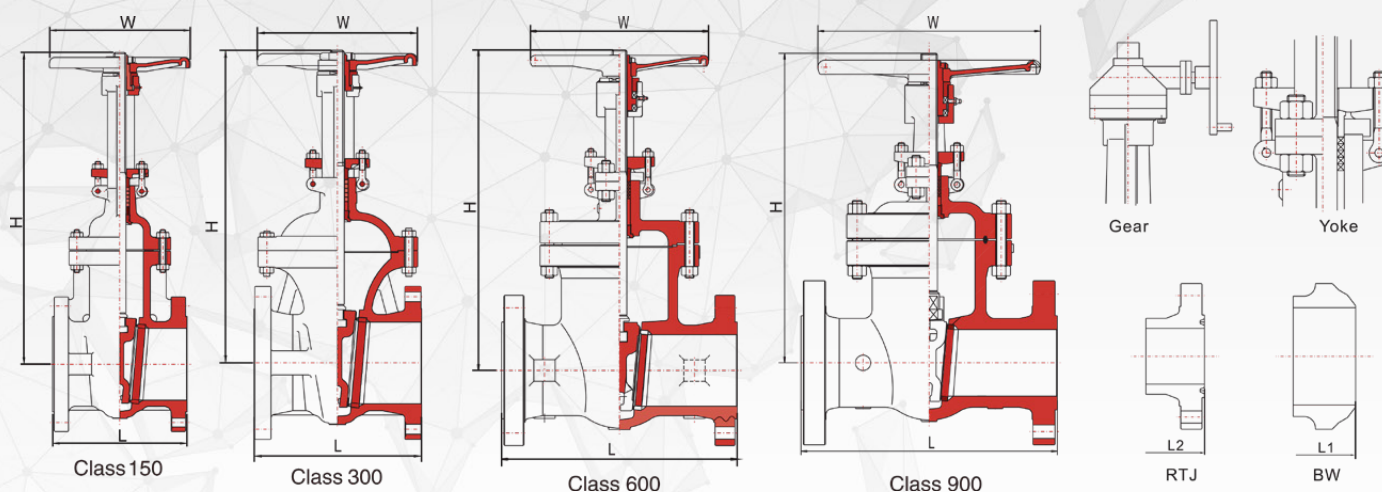
Available Optional Features Include:

- Optional Stem Extension
- Optional Double Packing with Lantern Ring
- Optional Live Loaded Gland Flange
- Optional Bellow Seal
-



No.	Part	Carbon Steel	Stainless Steel	Low Temperature	High Temperature	NACE Service
1	Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
2	Bonnet	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
3	Wedge	ASTM A216 WCB+CR13	ASTM A351 CF8M	ASTM A352 LCC + 316	ASTM A217 WC9+HF	ASTM A216 WCB+CR13
4	Stem Nut	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2
5	Gland Flange	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
6	Handwheel	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
7	Seat Ring	ASTM A105N+HF	ASTM A182 F316+HF	ASTM A350 LF2+HF	ASTM A182 F22+HF	ASTM A105N+HF
8	Stem	ASTM A182 F6A	ASTM A182 F316	ASTM A182 F316	ASTM A 182 F6A	ASTM A182 F6A (NACE)
9	Back Seat	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410 (NACE)
10	Gland	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410 (NACE)
11	Gasket	SPW SS+GRAPHITE RTJ.SS	SPW SS+GRAPHITE RTJ.SS	SPW SS+GRAPHITE RTJ.SS	SPW SS+GRAPHITE RTJ.SS	SPW SS+GRAPHITE RTJ.SS
12	Spacer Ring	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410 (NACE)
13	Packing	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
14	Retaining Nut	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
15	Handwheel Nut	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
16	Bonnet Stud	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A 193 B7M
17	Bonnet Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
18	Eye Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
19	Eye Bolt Pin	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	CARBON STEEL

Material list, other materials available/provided.



YVI Valve - Engineering Data

Gate Valve Engineering Specifications

*Gear Operator

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"	52"	54"	60"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	1302	1400	1550
L(RF)	in	7	7.5	8	9	10	10.5	11.5	13	14	15	16	17	18	20	22	24	24	26	28	30	31	34	39	40	42
	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	559	610	610	660	711	762	787.4	863.6	991	1016	1067
L1(BW)	in	8.5	9.5	11.1	12	15	15.9	16.5	18	19.8	22.5	24	26	28	32	34	36	36	38	40	42	43	46	-	-	-
	mm	216	241	282	305	381	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1092	1168	-	-	-
W	in	7.9	7.9	9.8	9.8	13.8	11.8	13.8	15.7	17.7	19.7	22	25.2	26.8	28.3	24	24	24	*24	*43	*31.9	*31.9	*31.9	*39.4	*39.4	*39.4
	mm	200	200	250	250	350	300	350	400	450	503	560	640	680	720	610	610	610	*610	*810	*810	*810	*810	*1000	*1000	*1000
H	in	12.4	14.5	14.3	17.3	22.2	22.4	29.6	35	42	45.8	51.7	56.7	63.5	73.7	110.4	120.5	125.3	140.7	108.5	169.7	178.2	197.2	215	218.5	237.7
	mm	318	368	364	440	565	582	751	890	1067	1163	1313	1441	1612	1872	2806	3060	3182	3574	3757	4311	4527	5010	5462	5550	6038
WT(RF)	kg	19	26	35	49	64	81	127	204	291	400	486	610	788	1446	1570	1900	2540	2958	3380	4815	5300	7110	9545	13000	14500
WT(BW)	kg	15	18	26	41	58	69	108	156	248	365	482	587	752	1405	1521	1838	2261	2490	3310	4840	5275	7050	9545	-	14500

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	203	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1 (RF-BW)	in	8.5	9.5	11.1	12	15	15.9	18.5	18	19.8	30	33	36	39	45	49	53	55	60	68	76	78	88
	mm	216	241	282	305	381	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	1930	1981	2235
W	in	7.9	9.8	9.8	9.8	13.8	13.8	15.7	17.7	19.7	22	25.2	26.8	29.9	29.9	*24	*24	*31.9	*31.9	*31.9	*39.4	*39.4	*39.4
	mm	200	250	250	250	350	350	400	450	500	560	640	680	760	760	*610	*610	*810	*810	*810	*1000	*1000	*1000
H	in	12.6	17.1	14.6	17.5	24.7	30.4	31.5	36.9	44.1	47.2	53.3	59.5	65	76.8	117.6	122.8	132.3	145.4	152.7	179	186.6	211.5
	mm	319	435	371	445	628	772	800	936	1120	1200	1355	1512	1650	1950	2986	3120	3361	3692	3879	4547	4739	5373
WT(RF)	kg	26	35	57	74	109	147	235	350	522	683	905	1145	1634	2660	3090	3312	3597	4850	6850	8460	9500	12400
WT(BW)	kg	17	26	48	65	90	113	164	344	475	565	805	1058	1412	2304	2540	2725	3057	4122	4990	6160	6800	9000

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1 (RF-BW)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	61	65	70	82	90	96	100
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	2083	2286	2438	2540
L2 (RTJ)	in	11.6	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1	43.1	47.3	55.4	57.5	61.5	65.5	70.6	82.6	-	-	-
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1409	1461	1562	1664	1794	2098	-	-	-
W	in	9.8	9.8	11.8	13.8	15.7	17.7	19.7	25.2	26.8	28.3	29.9	35	42.9	42.9	*31.9	*39.4	*39.4	*39.4	*39.4	*472	*472	*472
	mm	250	250	300	350	400	450	500	640	680	720	780	890	1090	1090	*810	*1000	*1000	*1000	*1000	*1200	*1200	012
H	in	14	17.4	18.8	21.7	30.3	29	35.2	39.9	44.7	51.5	54.9	59.7	66.7	76.3	124	132.4	130.7	150	187.7	183.9	193.7	231.3
	mm	356	442	478	552	700	737	894	1013	1136	1309	1395	1516	1693	1938	3150	3362	3549	3811	4260	4670	4921	5876
WT(RF)	kg	39	52	68	120	170	273	402	610	902	1245	1530	2030	2975	4252	5220	6050	6945	8312	10000	14300	16460	22900
WT(BW)	kg	28	42	55	84	125	204	337	548	905	974	1345	1730	2415	3415	4295	4980	5710	6834	8220	11755	13530	18820

NPS	in	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
DN	mm	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L-L1 (RF-BW)	in	15	18	24	29	33	38	40.5	44.5	48	52	61	65.5	70	74.5	78.9	87.9
	mm	381	457	610	737	838	965	1029	1130	1219	1321	1549	1664	1778	1892	2004	2232
12(RTJ)	in	15.1	18.1	24.1	29.1	33.1	38.1	40.9	44.9	48.5	52.5	61.8	-	-	-	-	-
	mm	384	460	613	740	841	968	1039	1140	1232	1333	1568	-	-	-	-	-
W	in	13.8	15.7	22	25.2	26.8	29.9	29.9	*24	*31.9	*31.9	*31.9	*39.4	*39.4	*472	*472	*472
	mm	350	400	560	640	680	760	760	*610	*810	*810	*810	*1000	*1000	*1200	*1200	*1200
H	in	21	23.5	31	34.9	42.2	46.9	50.2	76	90.2	95.2	110.6	111.5	114.8	118.1	121.4	128
	mm	545	600	776	886	1071	1190	1275	1930	2290	2417	2808	2833	2916	3000	3083	3250
WT(RF)	kg	101	172	372	640	1100	1360	2250	2850	3870	4860	6100	7300	7600	9800	11950	15003
WT(BW)	kg	70	110	265	498	810	1228	2009	2563	3300	4050	6120	5500	6900	9000	11000	13500

For 2-1/2" and smaller see Class 1500

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750
L-L1 (RF-BW)	in	14.5	16.5	18.5	21.5	27.8	32.8	39	44.5	49.5	54.5	60.5	65.5	76.5	82	87.5	93
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	2083	2222.5	2362
L2 (RTJ)	in	14.6	16.6	18.6	21.6	28	33.1	39.4	45.1	50.3	55.4	61.4	66.4	77.6	-	-	-
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972	-	-	-
W	in	11.8	11.8	15.7	19.7	25.2	29.9	*24	*24	*24	*39.4	*39.4	*39.4	*472	*472	*472	*472
	mm	300	300	400	500	640	760	*610	*610	*610	*1000	*1000	*1000	*1200	*1200	*1200	*1200
H	in	17.2	21.2	22.5	24.4	32.3	37.3	56.7	62	70.8	77.3	110.7	121.2	140.6	151	158	168
	mm	437	538	572	621	821	947	1440	1575	1798	1963	2812	3078	3570	3836	4012	4268
WT(RF)	kg	74	131	165	248	510	1040	1910	2260	4100	6200	8100	11130	13300	16500	18700	20900
WT(BW)	kg	54	105	129	197	358	761	1640	1945	3200	5300	7100	10100	12900	15700	17500	19300

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L-L1 (RF-BW)	in	17.8	20	22.8	26.5	36	40.2	50	56	62	68	74	80	91.9
	mm	451	508	578	673	914	1022	1270	1422	1575	1727	1879	2031	2335
L2 (RTJ)	in	17.9	20.2	23	26.9	36.5	40.9	50.9	56.9	-	-	-	-	-
	mm	454	514	584	683	927	1038	1245	1445	-	-	-	-	-
W	in	13.8	17.7	17.7	19.7	24	*24	*24	*24	*31.9	*31.9	*31.9	*39.4	*39.4
	mm	350	450	450	500	610	*610	*610	*610	*810	*810	*810	*1000	*1000
H	in	20.7	22.2	22.9	34.3	43.1	50.9	65	71.1	76.6	88.6	100.6	112.6	136.6
	mm	527	563	582	870	1095	1295	1652	1806	1945	2250	2555	2860	3470
WT(RF)	kg	130	200	245	490	985	1600	4570	6100	8120	10170	12100	14700	16500
WT(BW)	kg	95	150	175	375	765	1310	3800	5200	7510	9730	10900	12100	14700

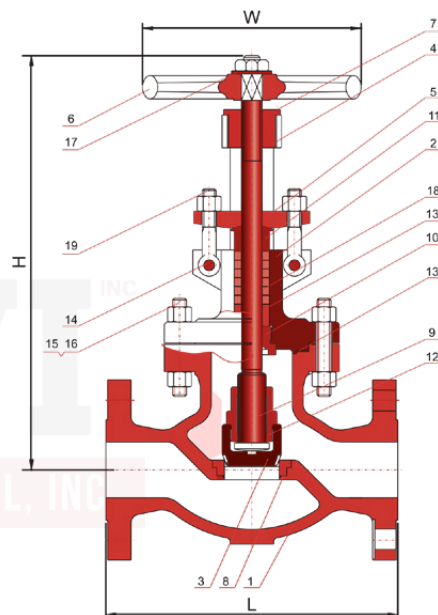
YVI Valve - Cast Steel Globe Valve

Design Features

- › API 624 / ISO 15848-1 Low Fugitive Emission Compliant
- › Body Guided Disc
- › Seal Welded Seat Ring
- › Gland Eye Bolt Pins are Welded on Both Ends

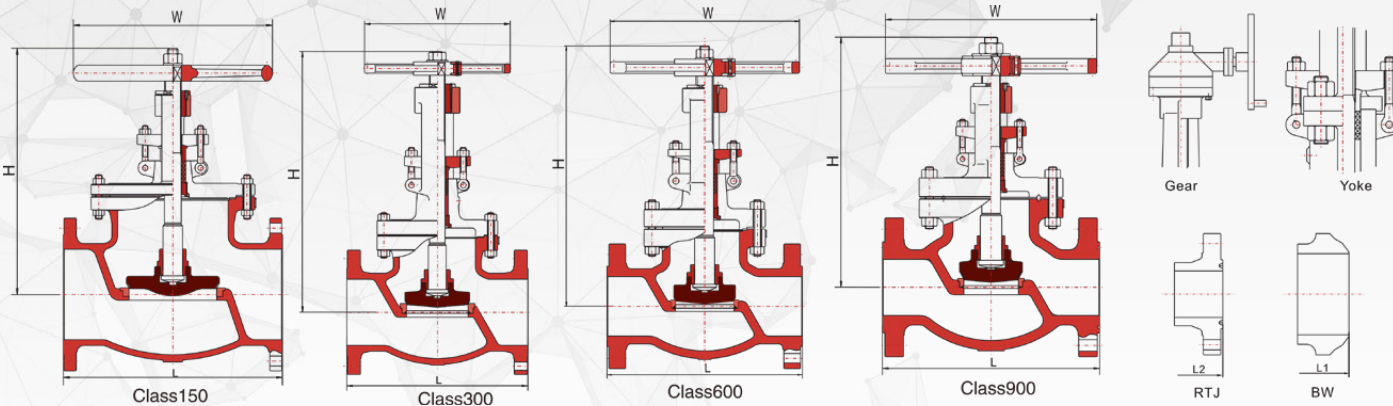
Available Optional Features Include:

- › Optional Bellow Seal
- › Optional Double Packing With Lantern Ring
- › Optional Live Loaded Gland Flange
- › Optional Stop Check / Non-return



No.	Part	Carbon Steel	Stainless Steel	Low Temperature	High Temperature	NACE Service
1	Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
2	Bonnet	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
3	Disc	ASTM A182 F6A ASTM A105N+CR 13	ASTM A182 F316+HF	ASTM A350 LF2+HF	ASTM A182 F22+HF	ASTM A182 F6A(NACE)
4	Stem Nut	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2
5	Gland Flange	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCB	ASTM A217 WC9	ASTM A216 WCB
6	Handwheel	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
7	Set Screw	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
8	Seat Ring	ASTM A105N+HF	ASTM A182 F316+HF	ASTM A350 LF2+HF	ASTM A182 F22+HF	ASTM A105N+HF
9	Stem	ASTM A182 F6A	ASTM A182 F316	ASTM A182 F316	ASTM A182 F6A	ASTM A182 F6A(NACE)
10	Back Seat	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410(NACE)
11	Gland	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410(NACE)
12	Disc Nut	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410(NACE)
13	Bonnet Gasket	SPW.SS-GRAPHITE RTJ.SS	SPW.SS-GRAPHITE RTJ.SS	SPW.SS-GRAPHITE RTJ.SS	SPW.SS-GRAPHITE RTJ.SS	SPW.SS-GRAPHITE RTJ.SS
14	Eye Bolt Pin	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	CARBON STEEL
15	Bonnet Stud	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
16	Bonnet Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
17	Handwheel Nut	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2
18	Packing	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
19	Eyebolt	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM

Material list, other materials available/provided.



YVI Valve - Engineering Data

Globe Valve Engineering Specifications

*Gear Operator

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L-L1 (RF-BW)	in	8	8.5	9.5	11.5	14	16	19.5	24.5	27.5	31	36	38.5	38.5	51
	mm	203	216	241	292	356	406	495	622	698	787	914	978	978	1295
W	in	7.9	7.9	9.8	11.8	13.8	13.8	17.7	17.7	25.2	25.2	28.3	*24	*24	*31.9
	mm	200	200	250	300	350	350	450	450	640	640	720	*610	*610	*810
H	in	12.4	15	14.3	17	18.3	18.3	21.4	23.9	32.4	34.3	33.3	44.9	49.7	60
	mm	315	382	363	433	466	466	543	608	825	871	847	1140	1283	1524
WT(RF)	kg	21	29	35	58	78	104	162	289	485	550	724	1400	2600	3700
WT(BW)	kg	17	20	30	47	71	86	138	219	362	491	650	1250	2300	3250

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
L-L1 (RF-BW)	in	10.5	11.5	12.5	14	15.7	17.5	22	24.5	28	33	34	38.5	40
	mm	267	292	318	356	400	444	559	622	711	838	864	978	1016
W	in	7.9	9.8	9.8	13.8	17.7	17.7	22	25.2	28.3	*24	*24	*24	*31.9
	mm	200	250	250	350	450	450	560	640	720	*610	*610	*610	*810
H	in	13.0	15.9	15.7	18.2	22	22.6	28.6	30.9	35.1	36	61.1	57.5	64.3
	mm	330	404	398	463	560	574	727	784	891	914	1552	1460	1632
WT(RF)	kg	26	38	51	76	125	173	297	500	724	1125	1650	2700	3650
WT(BW)	kg	21	29	38	59	104	137	237	432	632	975	1450	2400	3200

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450
L-L1 (RF-BW)	in	11.5	13	14	17	20	22	26	31	33	35	39	43
	mm	292	330	356	432	508	559	660	787	838	889	991	1092
L2 (RTJ)	in	11.6	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1	43.1
	mm	295	333	359	435	511	562	663	790	841	892	994	1095
W	in	9.8	13.8	13.8	17.7	19.7	19.7	25.2	28.3	28.3	*24	*31.9	*31.9
	mm	250	350	350	450	500	500	640	720	720	*610	*810	*810
H	in	15.1	21.1	21.1	20.9	27.8	28.7	34.4	36.1	38.3	55.1	63.4	70.9
	mm	384	537	537	531	700	730	875	918	972	1400	1610	1801
WT(RF)	kg	37	50	62	150	187	294	543	1006	1350	1620	2160	3300
WT(BW)	kg	30	40	58	132	142	227	460	729	1060	1330	1750	2800

NPS	in	3"	4"	6"	8"	10"	12"	14"	16"
DN	mm	80	100	150	200	250	300	350	400
L-L1 (RF-BW)	in	15	18	24	29	33	38	40.5	44.5
	mm	381	457	610	737	838	965	1029	1130
12(RTJ)	in	15.1	15.1	24.1	29.1	33.1	38.1	40.9	44.9
	mm	384	460	613	740	841	968	1038	1140
W	in	13.8	17.7	22	28.3	28.3	*31.9	*31.9	*31.9
	mm	350	450	560	720	720	*810	*810	*810
H	in	21.9	26.7	31.9	32.9	35.9	54.1	76.1	87
	mm	555	676	809	835	912	1374	1934	2210
WT(RF)	kg	110	197	435	720	1070	1920	2670	3520
WT(BW)	kg	112	158	360	597	890	1690	2390	3170

For 2-1/2" and smaller see Class 1500

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"
DN	mm	50	65	80	100	150	200	250	300
L-L1 (RF-BW)	in	14.5	16.5	18.5	21.5	27.8	32.8	39	44.5
	mm	368	419	470	546	705	832	991	1130
L2 (RTJ)	in	14.6	16.6	18.6	21.6	28	33.1	39.4	45.1
	mm	371	422	473	549	711	842	1000	1146
W	in	13.8	13.8	17.7	19.7	24	31.9	31.9	31.9
	mm	350	350	450	500	*610	*810	*810	*810
H	in	17.6	22.5	25.4	29.7	44.2	69.6	96.5	114.3
	mm	448	572	646	755	1124	1769	2450	2904
WT(RF)	kg	95	138	145	350	560	990	1530	2570
WT(BW)	kg	80	112	129	299	462	830	1330	2270

NPS	in	2"	2½"	3"	4"	6"	8"	10"
DN	mm	50	65	80	100	150	200	250
L-L1 (RF-BW)	in	17.8	20	22.8	26.5	36	40.2	50
	mm	451	508	578	673	914	1022	1270
L2 (RTJ)	in	17.9	20.2	23	26.9	36.5	40.9	50.9
	mm	454	514	584	683	927	1038	1292
W	in	17.7	19.7	22	24	24	31.9	31.9
	mm	450	500	560	610	*610	*810	*810
H	in	23.9	31.5	34.8	49.6	75	97	122.4
	mm	606.6	800	885	1260	1905	2465	3108
WT(RF)	kg	176	264	308	759	1990	4390	5290
WT(BW)	kg	141	214	238	644	1700	3950	4390

All technical data is subject to change without notice.

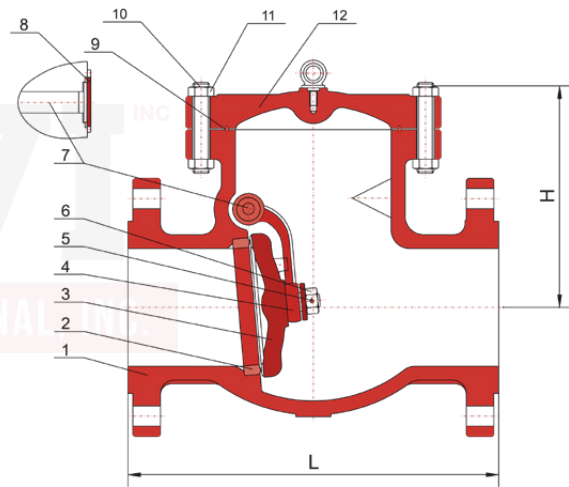
YVI Valve - Cast Steel Swing Check Valve

Design Features

- Seal Welded Seat Ring
- Disc Anti-rotational Device to Prevent 360° Rotation
- Disc Nut Pin is Welded
- 2" – 12" Class 150 & Class 300 and 2" – 10" Class 600 Swing Check Valves Provided with Optional Internal Hinge Pin Design

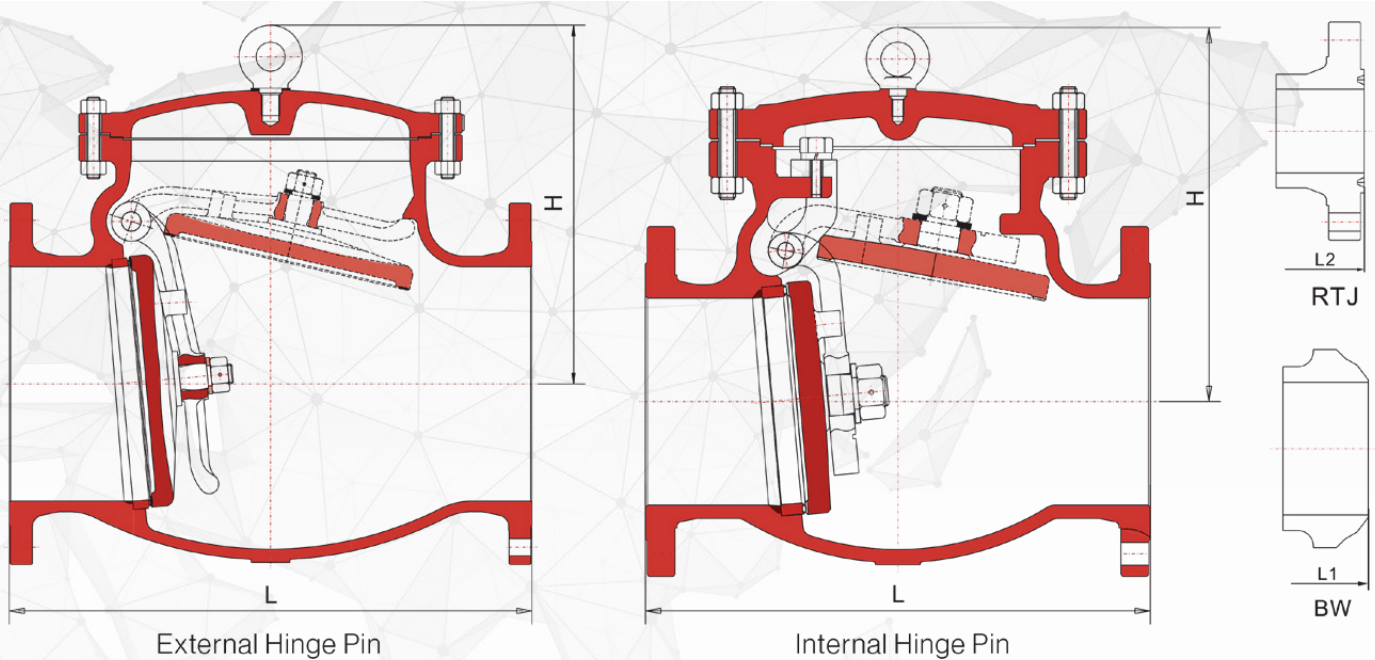
Available Optional Features Include:

- Optional Threaded Seat ring
- Optional Non-slam Design



No.	Part	Carbon Steel	Stainless Steel	Low Temperature	High Temperature	NACE Service
1	Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
2	Seat Ring	ASTM A105N+HF	ASTM A182 F316+HF	ASTM A350 LF2+HF	ASTM A182 F22+HF	ASTM A105N+HF
3	Disc	ASTM A216 WCB+CR13	ASTM A351 CF8M	ASTM A352 LCC+HF	ASTM A217 WC9+HF	ASTM A216 WCB+CR13(NACE)
4	Hinge	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
5	Pin	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410(NACE)
6	Disc Nut	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410(NACE)
7	Hinge Pin	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 420	ASTM A276 410(NACE)
8	Plug	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A182 F22	ASTM A105N
9	Gasket	SPW.SS+GRAPHITE RTJSS	SPW.SS+GRAPHITE RTJSS	SPW.SS+GRAPHITE RTJSS	SPW.SS+GRAPHITE RTJSS	SPW.SS+GRAPHITE RTJSS
10	Bonnet Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
11	Bonnet Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
12	Cover	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A219 WC9	ASTM A216 WCB

Material list, other materials available/provided.



Class 150 / Class 300

YVI Valve - Engineering Data

Swing Check Valve Engineering Specifications

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1 (RF-BW)	in	8	8.5	9.5	11.5	13	14	19.5	24.5	27.5	31	34	38.5	38.5	51	51	57	60	60	77	85	89	101
	mm	203	216	241	292	330	356	495	622	698	787	864	978	978	1295	1295	1443	1524	1524	1956	2159	2261	2566
H	in	6	6.7	7.1	8.4	10.6	12.2	14.4	17	19.8	22.1	23.3	27.6	28.7	32.6	35.3	36.8	38.2	49.1	54.2	55.5	57.8	64.6
	mm	153	169	181	213	268	309	367	432	502	561	592	702	727.9	826.8	897	935	970	1058	1377	1410	1468	1642
WT(RF)	kg	15	22	28	42	57	79	131	177	282	380	542	632	855	970	1276	1600	2020	2430	3130	4260	5030	6680
WT(BW)	kg	10	12	17	29	45	57	96	143	227	294	468	552	755	831	1120	1420	1760	2130	2930	3730	4430	5680

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1 (RF-BW)	in	10.5	11.5	12.5	14	15.8	17.5	21	24.5	28	33	34	38.5	40	53	53	59	62.8	68	82	96	103	124.1
	mm	267	292	318	356	400	444	533	622	711	838	864	978	1016	1346	1346	1499	1594	1727	2083	2438	2617	3151
H	in	7	7.2	9.1	10.5	11.2	12.7	15.5	17.9	21.3	24	25.7	28.2	31.4	35.3	36.6	45.8	50	50	59.4	68.9	73.6	87.8
	mm	177	182	231	266	285	323	393	454	541	608.5	653	716	796.3	896	930	1163	1270	1270	1510	1750	1870	2230
WT(RF)	kg	20	30	40	65	84	118	193	310	450	595	840	933	1320	1848	2375	2660	3680	3680	5030	6290	7050	9310
WT(BW)	kg	16	22	30	53	73	101	157	232	414	455	766	774	960	1792	1995	2260	2780	2780	4430	5640	6150	8310

NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1 (RF-BW)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	63	65	70	82	90	96	100
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1600	1651	1778	2083	2286	2438	2540
L2 (RTJ)	in	11.6	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1	43.1	47.3	55.4	57.5	63.5	65.5	70.6	82.6	-	-	-
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1461	1613	1664	1794	2099	-	-	-
H	in	9.2	9.8	10.8	12.2	15.3	15.6	18.4	21.8	23.2	26	28.3	31.9	32.7	38.2	43.7	46.9	52.1	53.8	60.7	67	70.9	85.5
	mm	233	249	274	311	389	397	467	554	589	660	719	811	831	971	1110	1192	1324	1367	1542	1702	1800	2171
WT(RF)	kg	30	43	55	93	160	208	339	547	715	885	1310	1620	2120	3100	3800	4600	5500	6800	8100	8900	9900	11100
WT(BW)	kg	21	35	43	64	115	145	256	375	589	694	932	1279	1702	2497	3100	3900	4700	6000	7200	8100	9800	10200

NPS	in	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
DN	mm	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L-L1 (RF-BW)	in	15	18	24	29	33	38	40.5	44.5	48	52	61	65	69	73	77	84.9
	mm	381	457	610	737	838	965	1029	1130	1219	1321	1549	1651	1753	1854	1956	2156
12(RTJ)	in	15.1	18.1	24.1	29.1	33.1	38.1	40.9	44.9	48.5	52.5	61.7	65.9	69.9	73.9	-	-
	mm	384	460	613	740	841	968	1038	1140	1232	1333	1568	1673	1775	1876	-	-
H	in	11.9	12	16.7	20	22.9	25.6	27	33	36.4	37.4	44.2	44.1	54	59.9	65.8	71.7
	mm	301	305	423	507	582	650	686	838	839	924	932	1121	1372	1521	1671	1821
WT(RF)	kg	110	150	305	510	810	1120	1380	1900	3000	4000	5200	6600	7550	8850	10150	12750
WT(BW)	kg	77	113	230	387	632	901	1139	1613	2650	3550	4650	5630	6420	7510	8600	10780

For 2-1/2" and smaller see Class 1500

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750
L-L1 (RF-BW)	in	14.5	16.5	18.5	21.5	27.8	32.8	39	44.5	49.5	54.5	60.5	65.5	76.5	82	87.5	93
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	2083	2222.5	2362
L2 (RTJ)	in	14.6	16.6	18.6	21.6	28	33.1	39.4	45.1	50.2	55.4	61.4	66.4	77.6	-	-	-
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972	-	-	-
H	in	11.2	11.8	13.1	14.7	19.8	23.9	25.6	30.7	37.4	40.2	45.2	47.5	60.6	70.6	80.7	90.7
	mm	284	300	332	373	502	608	649	779	950	1020	1147	1206	1539	1794	2049	2304
WT(RF)	kg	70	100	150	245	550	1010	1476	2280	3060	4500	6100	8000	9800	11600	13400	15200
WT(BW)	kg	50	77	115	190	452	750	1012	1780	2290	3500	5200	7500	8400	9300	10200	11100

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L-L1 (RF-BW)	in	17.8	20	22.8	26.5	36	40.2	50	56	62	68	73.9	79.9	91.9
	mm	451	508	578	673	914	1022	1270	1422	1575	1727	1877	2029	2334
L2 (RTJ)	in	17.9	20.2	23	26.9	36.5	40.9	50.9	56.9	-	-	-	-	-
	mm	454	514	584	683	927	1038	1292	1445	-	-	-	-	-
H	in	16.4	16.5	17.4	18.9	20.1	28	33.5	39.4	47.2	51.2	55.1	59.1	63
	mm	416	419	441	479	511	711	851	1000	1200	1300	1400	1500	1600
WT(RF)	kg	145	240	330	650	806	2420	3750	5500	7400	9010	11200	12700	14000
WT(BW)	kg	110	190	260	535	665	1980	2980	4350	6200	8250	9400	11890	13000

All technical data is subject to change without notice.

YVI VALVE - CAST STEEL **PRESSURE SEAL VALVE**

YVI Cast Steel Pressure Seal Valves are designed, manufactured, and tested in accordance with ASME B16.34, API 594, API 600, API 623, BS1868, MSS SP-144, and API 598. YVI offers size ranges from 2" through 48" diameters in pressure classes 600# through 2500# with end connections in either RFFE, RTJ, and Butt weld. Common materials of construction such as WCB, LCB, LCC, WC6, WC9, and C5 are all available along with other materials upon request. To assure casting quality, all pressure-containing castings are produced in-house.



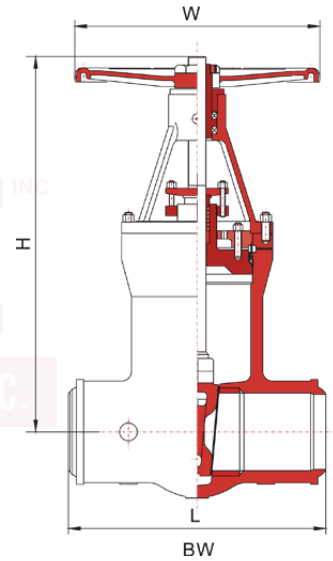
YVI Valve - Cast Steel Pressure Seal Gate Valve

Design Features

- Seal Welded Seat Rings
- Gland Eye Bolt Pins are Welded on Both Ends
- API 622 Certified Graphite Stem Packing
- 26" and Larger Items have Hardfaced Wedge Guides

Available Optional Features Include:

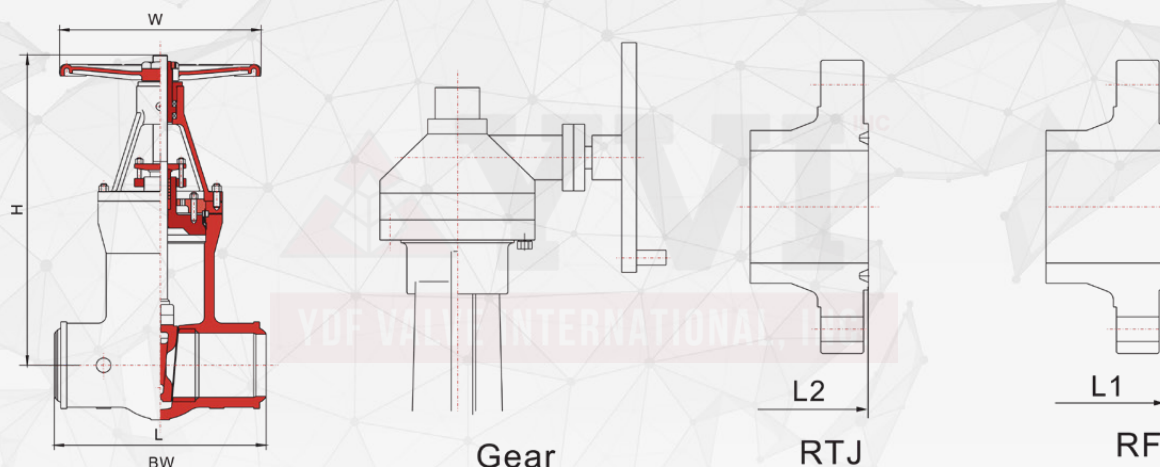
- Optional Double Packing With Lantern Ring
- Optional Live Loaded Gland Flange and/or Bonnet Studs
- Optional Parallel Slide Design



Part	Carbon Steel	Stainless Steel	Low Temperature	High Temperature	NACE Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Seat Ring	ASTM A105N + HF	ASTM A182 F316+HF	ASTM A350 LF2+HF	ASTM A182 F22 + HF	ASTM A105N + HF
Flexible Wedge	ASTM A216 WCB + Cr13	ASIM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9 + Cr13	ASTM A216 WCB + Cr13
Stem	ASTM A182 F6a	ASTM A182 F316	ASTM A182 F316	ASTM A182 F6a	ASTM A182 F6a (NACE)
Bonnet	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A182 F22	ASTM A105N
Sealing Ring	SS304 + Graphite / SS316L	SS316 + Graphite / SS316L	SS316 + Graphite / SS316L	SS304 + Graphite / SS316L	SS304 + Graphite / SS316L
Pressure Ring	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410 (NACE)
Segment Ring	ASTM A182 F6a	ASTM A182 F316	ASTM A182 F316	ASTM A182 F6a	ASTM A182 F6a (NACE)
Support Plate	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Packing	Graphite	Graphite	Graphite	Graphite	Graphite
Box-Plate Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
Box-Plate Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
Gland Flange Seat	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A182 F22	ASTM A105N
Gland	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410	ASTM A276 410 (NACE)
Gland Flange	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Gland Eye Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
Gland Eyebolt Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
Yoke	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Stem Nut	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2	ASTM A439 D-2
Grease Nipple	Carbon Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Retaining Nut	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel	Carbon Steel
Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
Screw	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel	Carbon Steel
Handwheel Nut	Carbon Steel	Stainless Steel	Stainless Steel	Carbon Steel	Carbon Steel

Material list, other materials available/provided.

Pressure Seal Gate Engineering Specifications



NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
L(BW)	in	7	8.5	10	12	15	18	23	28	32	35	39	43	47	55	-	-	-
	mm	178	216	254	305	381	457	584	711	813	889	991	1092	1194	1397	-	-	-
L1(RF)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	61	65
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1418	1549	1651
L2(RTJ)	in	12	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1	43.1	47.2	55.4	58	62	66
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1461	1562	1664
W	in	7.9	9.8	9.8	13.8	15.7	17.7	21.3*	21.3*	24*	24*	24*	24*	24*	24*	32*	32*	39.4*
	mm	200	250	250	350	400	450	540*	540*	610*	610*	610*	610*	610*	610*	800*	800*	1000*
H	in	23.2	24.8	26.3	36	39.4	42.5	48.1	59.5	70.5	73.1	85.1	88.6	97.3	118.1	128	137.9	149
	mm	589.3	629.9	668	914.4	1000.8	1079.5	1222	1511.3	1790.7	1856.7	2161.5	2250.4	2471.4	2999.7	3251.2	3502.7	3784.6
WT(RF)	kg	70	95	100	149	208	245	320	430	515	670	905	1150	1445	2080	2445	2895	3250
WT(BW)	kg	62	80	84	115	150	171	215	268	318	435	570	720	890	1285	1510	1750	2010

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
L(BW)	in	8.5	10	12	14	20	26	31	36	39	43	48	52	61	65	68	72
	mm	216	254	305	356	508	660	787	914	991	1092	1219	1321	1549	1651	1727.2	1816.1
L1(RF)	in	14.5	16.5	18	24	29	33	38	40.5	44.5	48	52	61	-	-	-	-
	mm	368	419	457	610	737	838	965	1029	1130	1219	1321	1549	-	-	-	-
L2(RTJ)	in	14.6	16.6	18.1	24.1	29.1	33.1	38.1	40.9	44.9	48.5	52.5	61.8	-	-	-	-
	mm	371	422	460	613	740	841	968	1039	1140	1232	1333	1570	-	-	-	-
W	in	10	10	15.7	15.7	22	21.3	21.3	24*	24*	32*	32*	39.4*	39.4*	39.4*	39.4*	39.4*
	mm	254	254	400	400	560	540*	540*	610*	610*	810*	810*	1000*	1000*	1000*	1000*	1000*
H	in	23	25	22.3	25	40	51.7	56.6	63.5	70.9	79.5	97.3	100	127.6	138.3	149	159.5
	mm	584.2	640	560	635	1016	1312	1437	1612	1800	2020	2471.4	2541	3241	3512.8	3784.6	4051.3
WT(RF)	kg	63	99	107	158	294	693	1008	1418	1785	2520	3820	4400	6770	-	-	-
WT(BW)	kg	42	67	70	108	194	520	772	1103	1470	2048	2730	3685	5430	6370	7385	8480

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L(BW)	in	8.5	10	12	16	22	28	34	39	42	47	53	58	66
	mm	216	254	305	406	559	711	864	991	1067	1194	1346	1473	1676.4
L1(RF)	in	14.5	16.5	18.5	21.5	27.8	32.8	39	44.5	49.5	54.5	60.5	65.5	76.5
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943
L2(RTJ)	in	14.6	16.6	18.6	21.6	28	33.8	39.4	45.1	50.3	55.4	61.4	66.4	77.6
	mm	371	422	473	549	711	842	1000	1146	1278	1407	1559.6	1686.6	1971
W	in	11.8	13.8	15.7	20	18.1	18*	24	24*	32	32*	32*	39.4*	39.4*
	mm	300	350	400	500	460*	460*	610	610*	810*	810*	810*	1000*	1000*
H	in	20.4	22.6	24	27.3	42.6	51	59.1	66.1	74.2	84.8	111.1	122.1	148.3
	mm	517	575	611	694	1081	1295	1502	1679	1885	2155	2821.9	31013	3766.8
WT(RF)	kg	63	99	126	218	504	956	1481	2184	2741	3780	5960	7370	10610
WT(BW)	kg	42	67	87	150	367	718	1071	1523	1890	2888	4630	5720	8240

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L(BW)	in	11	13	14.5	18	24	30	36	41	44	49	55	61	68
	mm	279	330	368	457	610	762	914	1041	1118	1245	1397	1549	1727
L1(RF)	in	17.8	20	22.8	26.5	36	40.3	50	56	-	-	-	-	-
	mm	451	508	578	673	914	1022	1270	1422	-	-	-	-	-
L2(RTJ)	in	17.9	20.3	23	26.9	36.5	40.8	50.9	56.9	-	-	-	-	-
	mm	454	514	584	683	927	1038	1292	1445	-	-	-	-	-
W	in	11.8	12.2	12.2	18.1	24*	24*	32	32*	24*	24*	32*	32*	39.4*
	mm	300	310*	310*	460*	460*	610*	610*	810*	610*	610*	810*	810*	1000*
H	in	20.7	27.8	27.8	35.5	44.5	55	55.8	71.1	94	97.3	116.1	128.8	153.6
	mm	527	707	707	901	1130	1397	1468	1806	2388	2471	2949	3272	3901
WT(RF)	kg	89	142	173	346	851	1386	2493	3091	-	-	-	-	-
WT(BW)	kg	53	95	100	200	488	850	1680	2330	3400	4200	5000	6170	8880

All technical data is subject to change without notice.

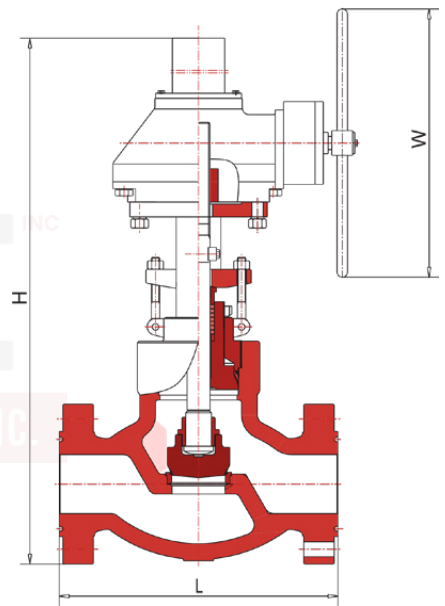
YVI Valve - Cast Steel Pressure Seal Globe Valve

Design Features

- › Body Guided Disc
- › Seal Welded Seat Rings
- › Gland Eye Bolt Pins are Welded on Both Ends
- › API 622 Certified Graphite Stem Packing

Available Optional Features Include:

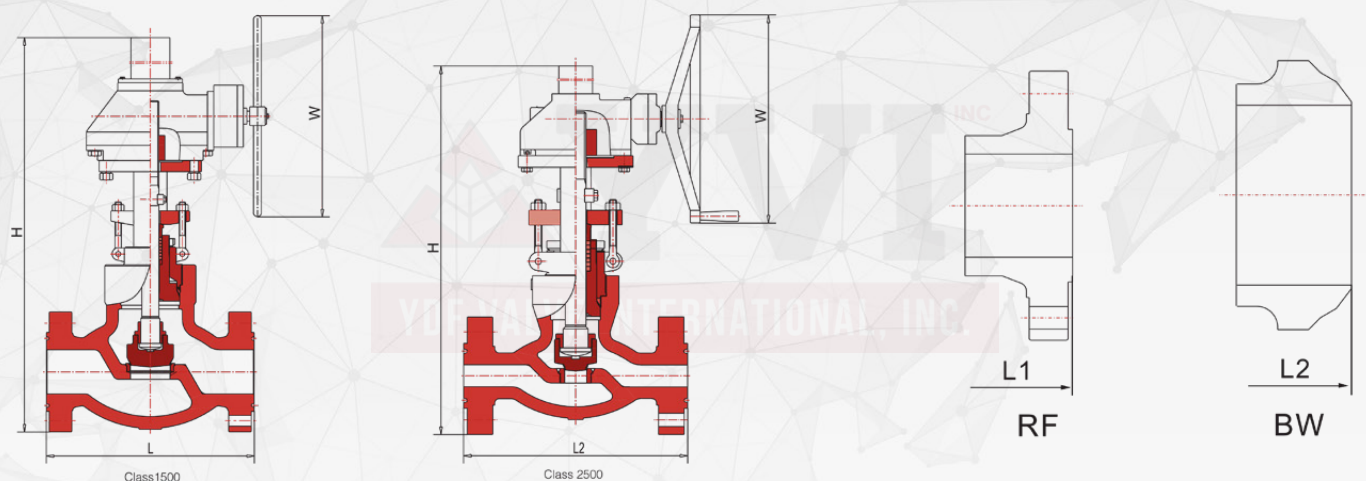
- › Optional Stem Extension
- › Optional Double Packing With Lantern Ring
- › Optional Live Loaded Gland Flange



Part	Carbon Steel	Stainless Steel	Low Temperature	High Temperature	NACE Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Disc	ASTM A105N+STL.6	ASTM A182 F316+STL.6	ASTM A350-LF2+STL.6	ASTM A182 F22+STL.6	ASTM A105N+STL.6
Stem	ASTM A182 F6A	ASTM A182 F316	ASTM A182 F304	ASTM A182 F6A	ASTM A182 F6A(NACE)
Stuffing Box	ASTM A182 F6A	ASTM A182 F316	ASTM A182 F304	ASTM A182 F6A	ASTM A182 F6A(NACE)
Sealing Ring	SS304 + GRAPHITE SS316L	SS316 + GRAPHITE SS316L	SS316 + GRAPHITE SS316L	SS304 + GRAPHITE SS316L	SS304 + GRAPHITE SS316L
Yoke	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Spacer Ring	ASTM A182 F6A	ASTM A182 F316	ASTM A182 F304	ASTM A182 F6A	ASTM A182 F6A(NACE)
Packing	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
Gland	ASTM A276 410	ASTM A276 316	ASTM A276 304	ASTM A276 410	ASTM A276 410
Gland Flang	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Eye Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M
Nut	ASTM A193 2H	ASTM A193 8	ASTM A193 7	ASTM A193 7	ASTM A193 2HM
Stem Nut	ASTM A439 GR D-2	ASTM A439 GR D-2	ASTM A439 GR D-2	ASTM A439 GR D-2	ASTM A439 GR D-2
Handwheel Cover	ASTM A29 TYPE 1025	ASTM A29 TYPE 1025	ASTM A29 TYPE 1025	ASTM A29 TYPE 1025	ASTM A29 TYPE 1025
Impactor Handwheel	DUCTILE IRON	DUCTILE IRON+ZN	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
Impact Block	ASTM A29 TYPE 1045	ASTM A29 TYPE 1045	ASTM A29 TYPE 1045	ASTM A29 TYPE 1045	ASTM A29 TYPE 1045
Disc Nut	ASTM A276 410	ASTM A276 316	ASTM A276 304	ASTM A276 410	ASTM A276 410(NACE)

Material list, other materials available/provided.

Pressure Seal Globe Engineering Specifications



NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"
L(BW)	in	7	8.5	10	12	15	18	23	28	32	-	-
	mm	178	216	254	305	381	457	584	711	813	-	-
L1(RF)	in	11.5	13	14	17	20	22	26	31	33	35	39
	mm	292	330	356	432	508	559	660	787	838	889	991
L2(RTJ)	in	11.6	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1
	mm	295	333	359	435	511	562	663	790	841	892	994
W	in	9.8	11.8	13.8	17.7	19.7	21.3*	21.3*	24*	24*	32*	32*
	mm	248.9	299.7	350.5	449.6	500	540*	540*	610*	610*	810*	810*
H	in	21.7	24.8	26.8	29.5	39.4	45.3	49.2	55.1	61	70.9	85
	mm	551.2	629.9	680.7	749.3	1000	1150.6	1249.7	1399.5	1549.4	1800	2150
WT(RF)	kg	45	55	85	135	190	305	620	1310	1900	2720	3150
WT(BW)	kg	35	45	60	95	150	230	540	1150	1720	2530	2900

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"
L(BW)	in	8.5	10	12	14	20	26	31	36	39	43
	mm	216	254	305	356	508	660	787	914	991	1092
L1(RF)	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5
	mm	368	419	381	457	610	737	838	965	1029	1130
L2(RTJ)	in	14.6	16.6	15.1	18.1	24.1	29.1	33.1	38.1	40.9	44.9
	mm	371	422	384	460	613	740	841	968	1038	1140
W	in	14	14	22	20*	24*	24*	24*	32*	32*	39.4*
	mm	355.6	355.6	560	540*	610*	610*	610*	810*	810*	1000*
H	in	24.4	25.2	22	33.5	39.1	53.1	61	68.9	78.8	91
	mm	619.8	640.1	561	850.9	994	1348.7	1549.4	1749.6	2000.3	23114
WT(RF)	kg	84	110	116	179	441	1050	1720	2300	3350	4000
WT(BW)	kg	58	74	84	137	378	945	1520	2050	3050	3600

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"
L(BW)	in	8.5	10	12	16	22	28	34	39	42
	mm	216	254	305	406	559	711	864	991	1067
L1(RF)	in	14.5	15.5	18.5	21.5	27.8	32.8	39	44.5	49.5
	mm	368	419	470	546	705	832	991	1130	1257
L2(RTJ)	in	14.6	16.6	18.6	21.6	28.1	33.2	39.4	45.1	50.3
	mm	371	422	473	549	711	841	968	1038	1140
W	in	13.8	17.7	17.7	18.1	24	31.9	39.4	39.4	39.4
	mm	350	450	450	460*	610*	810*	1000*	1000*	1000*
H	in	19.4	23.8	23.8	32.2	48.4	50.1	57.8	91	106
	mm	492	605	605	819	1229	1272	1468	23114	26924
WT(RF)	kg	84	116	143	236	918	1764	2680	3400	4300
WT(BW)	kg	58	62	128	168	781	1502	2280	2830	3600

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"
L(BW)	in	11	13	14.5	18	24	30	36	41
	mm	279	330	368	457	610	762	914	1041
L1(RF)	in	17.8	20	22.8	26.5	36	40.3	50	56
	mm	451	508	578	673	914	1022	1270	1422
L2(RTJ)	in	17.9	20.3	23	26.9	36.5	40.9	50.9	56.9
	mm	454	514	584	683	927	1038	1292	1445
W	in	16	20	19.7	24	24	39.4	39.38	39.38
	mm	400	500	500	610*	610*	1000*	1000*	1000*
H	in	24.3	30.7	27.8	51.2	53.9	62.3	100	106
	mm	617.2	779.8	705	1300.5	1369.1	1583	2540	2692.4
WT(RF)	kg	105	163	221	525	1313	2520	3300	4200
WT(BW)	kg	74	116	147	368	973	2100	2500	3300

All technical data is subject to change without notice.

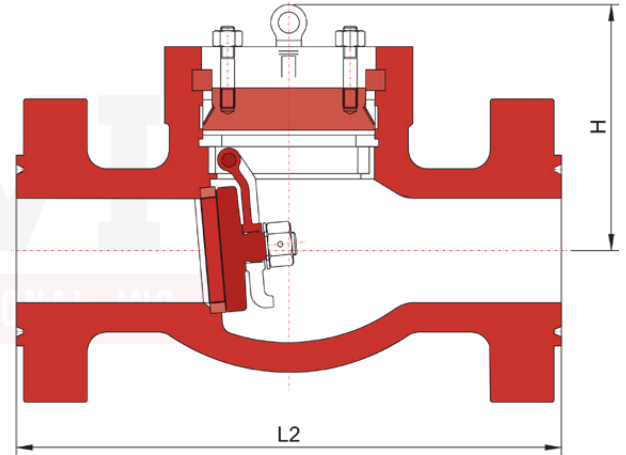
YVI Valve - Cast Steel Pressure Seal Check Valve

Design Features

- Seal Welded Seat Rings
- Disc Anti-rotational Device to Prevent 360° Rotation
- Disc Nut Pin is Welded

Available Optional Features Include:

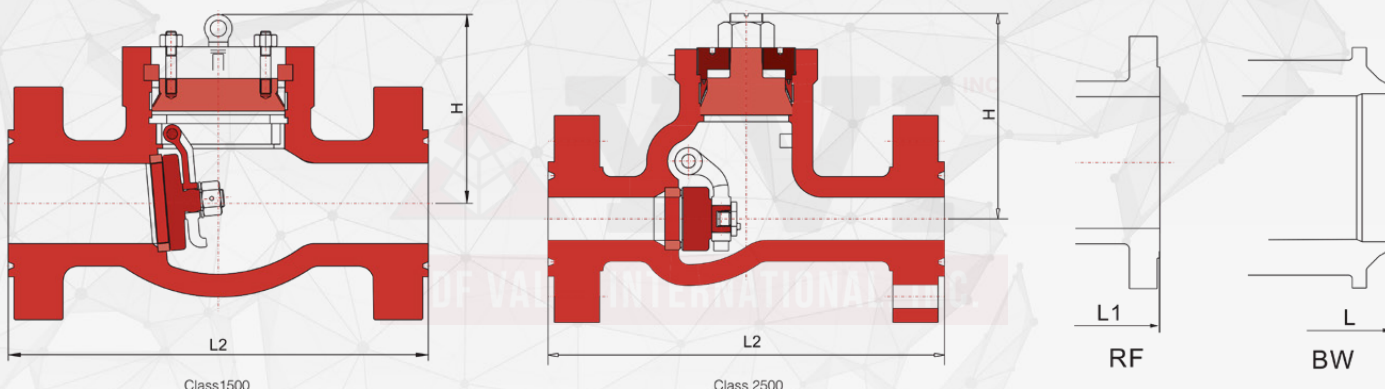
- Optional Threaded Seat Ring
- Optional Non-slam Design
- Optional Internal Hinge Pin or External Hinge Pin
- Optional Live Loaded Cover Bolting



Part	Carbon Steel	Stainless Steel	Low Temperature	High Temperature	NACE Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Seat Ring	ASTM A105N+STL.6	ASTM A182 F316	ASTM A350 LF2+STL.6	ASTM A182 F22+STL.6	ASTM A105N+STL.6
Disc	ASTM A216 WCB+CR13	ASTM A351 CF8M	ASTM A352 LCC+CR13	ASTM A217 WC9+CR13	ASTM A216 WCB+CR13
Hinge	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A217 WC9	ASTM A216 WCB
Washer	STAINLESS STEEL GRAPHITE	STAINLESS STEEL GRAPHITE	STAINLESS STEEL GRAPHITE	STAINLESS STEEL GRAPHITE	STAINLESS STEEL GRAPHITE
Pin	ASTM A182 F6A	ASTM A276 316	ASTM A276 304	ASTM A276 304	ASTM A276 410(NACE)
Disc Nut	ASTM A276 410	ASTM A276 316	ASTM A276 304	ASTM A276 304	ASTM A276 410(NACE)
Lever Set Ring	ASTM A276 410	ASTM A182 F316	ASTM A182 F304	ASTM A182 F304	ASTM A182 F6A(NACE)
Hing Pin	ASTM A182 F6A	ASTM A182 F316	ASTM A182 F304	ASTM A182 F304	ASTM A162 F6A(NACE)
Plate	ASTM A276 410	ASTM A182 F316	ASTM A182 F304	ASTM A182 F304	ASTM A182 F6A(NACE)
Cover	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A182 F22	ASTM A105N
*Sealing Ring	SS304 + GRAPHITE	SS316 + GRAPHITE	SS304 + GRAPHITE	SS304 + GRAPHITE	SS304 + GRAPHITE
Spacer Ring	ASTM A276 410	ASTM A182 F316	ASTM A182 F304	ASTM A182 F304	ASTM A276 420(NACE)
Bonnet Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 7	ASTM A194 2HM
Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B16	ASTM A193 B7M

Material list, other materials available/provided.

Pressure Seal Check Engineering Specifications



NPS	in	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
L(BW)	in	7	8.5	10	12	15	18	23	28	32	-	-	-	-	-	-	-	-
	mm	178	216	254	305	381	457	584	711	813	-	-	-	-	-	-	-	-
L1(RF)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	63	65
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1600	1651
L2(RTJ)	in	11.6	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1	43.1	47.3	55.4	57.5	63.5	65.5
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1460	1613	1664
H	in	9.5	10.4	10.6	12.5	15.7	15.7	23.1	23.9	27.4	28.7	28.8	29.5	32.3	37.4	39.4	43.3	47.3
	mm	241.3	264.2	269.2	317.5	398.8	398.8	586.7	607.1	696	729	730.3	749.3	819.2	949.5	1000.3	1098.6	1200.2
WT(RF)	kg	27	35	45	85	135	190	350	500	670	880	1150	1480	1880	2600	3100	3500	4000
WT(BW)	kg	18	25	32	55	85	130	260	370	490	660	850	1100	1490	2040	2500	2800	3150

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
L(BW)	in	8.5	10	12	14	20	26	31	36	39	43	48	52	61	63	67	71
	mm	216	254	305	356	508	660	787	914	991	1092	1219	1321	1549	1600.2	1701.8	1803.4
L1(RF)	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	65	69	73
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1651	1752.6	1854.2
L2(RTJ)	in	14.6	16.6	15.1	18.1	24.1	29.1	33.1	38.1	40.9	44.9	48.5	52.5	61.8	65.9	69.9	73.9
	mm	371	422	384	460	613	740	841	968	1039	1140	1232	1334	1570	1673.9	1775.5	1877.1
H	in	9.5	10.4	10.6	12.5	12.8	23.1	23.9	21	28.7	24.9	33.5	34	37.8	39.4	42.3	55.1
	mm	241.3	264.2	269.2	317.5	325	586.7	607.1	533	729	633	850.9	863.6	958.9	1000.3	1073.2	1400.3
WT(RF)	kg	42	55	58	110	242	599	893	1365	1628	1733	2300	3000	4100	4600	5200	6000
WT(BW)	kg	21	32	34	68	168	462	725	1071	1281	1418	1850	2400	2900	3600	4000	4600

NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L(BW)	in	8.5	10	12	16	22	28	34	39	42	47	53	58	77
	mm	216	254	305	406	559	711	864	991	1067	1194	1346	1473	1956
L1(RF)	in	14.5	16.5	18.5	21.5	27.8	32.8	39	44	49.5	54.4	60.5	65.5	76.5
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943
L2(RTJ)	in	14.6	16.6	18.6	21.6	28.1	33.2	39.4	45.1	50.3	55.3	61.4	66.4	77.6
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
H	in	9.5	10.4	11	14.3	13.3	17.7	20.2	25.4	28	29.5	34.63	37.38	43.25
	mm	241.3	264.2	280	363	337	450	513	645.7	711.2	749.3	879.6	949.5	1098.6
WT(RF)	kg	42	58	105	147	360	641	1103	1628	2205	2730	3300	4200	6000
WT(BW)	kg	21	34	42	74	233	504	777	1155	1481	1680	2100	2600	3500

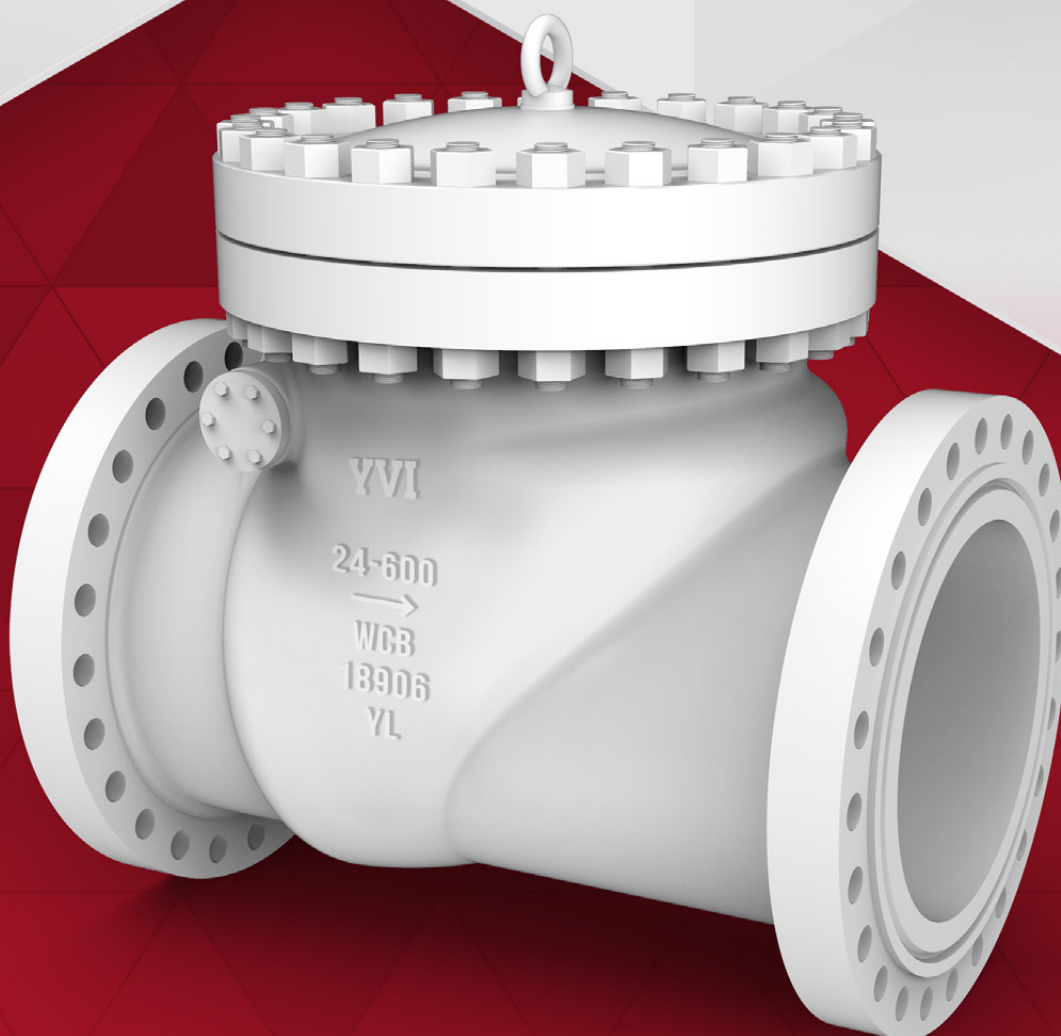
NPS	in	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L(BW)	in	11	13	14.5	18	24	30	36	41	44	49	55	61	68
	mm	279	330	368	457	610	762	914	1041	1117.6	12446	1397	1549.4	1727.2
L1(RF)	in	17.8	20	22.8	26.5	36	40.3	50	56	-	-	-	-	-
	mm	451	508	578	673	914	1022	1270	1422	-	-	-	-	-
L2(RTJ)	in	17.9	20.3	23	26.9	36.5	40.9	50.9	56.9	-	-	-	-	-
	mm	454	514	584	683	927	1038	1292	1444	-	-	-	-	-
H	in	9.5	10.4	11.9	12.5	17.8	22	22.7	25.8	33.9	35.4	39.4	45.3	55.1
	mm	243.8	264.2	303	317.5	452.1	558.8	576.6	655.3	860.6	898.7	1000.3	1149.4	1400.3
WT(RF)	kg	89	124	163	299	588	1071	1676	2772	-	-	-	-	-
WT(BW)	kg	53	74	89	142	286	598	783	1512	2450	3200	4050	5000	7200

All technical data is subject to change without notice.

YVI VALVE - FULL OPENING

API 6D CHECK VALVE

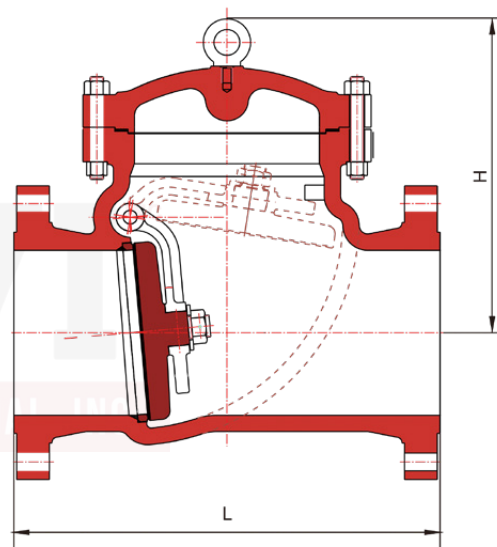
YVI Full Opening Check Valve are designed, manufactured and tested in accordance with API 6D, ASME B16.34, optional design to soft seated or metal seated, and soft seated type are certified to 6FD first edition, and the valve range is from 2 inch up to 48 inch, pressure rating is from 150LB up to 2500LB. With full opening design, this series of check valve can be capable for pig ball cleaning service. To prevent potential water hammer damage caused by disc closing, a dashpot device can be assembled to control the disc closing time. The function of a check valve is to prevent reversal of flow automatically and promptly.



YVI Valve - Full Opening API 6D Check Valve

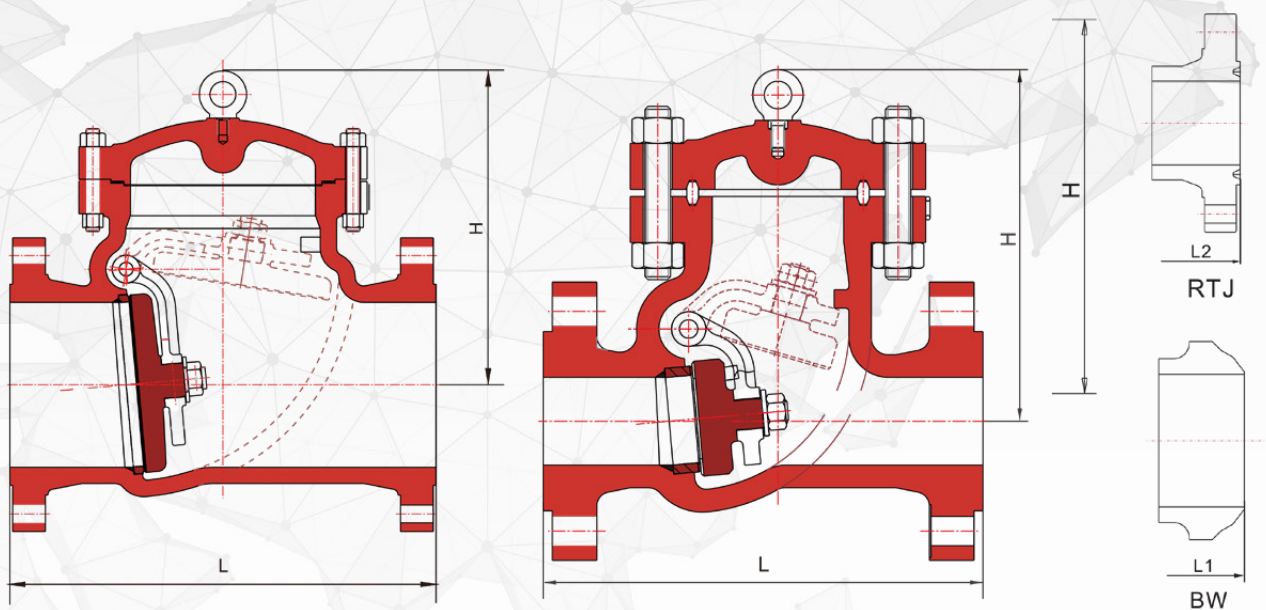
Design Features

- › Suitable for Piging Operations
- › Soft or Metal Seated
- › Welded Seat Ring
- › Optional Counter Weight Lever Design
- › Optional 6FD Firesafe Design



Part	Carbon Steel	Stainless Steel	Low Temperature	NACE Service
Body	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A216 WCB
Seat Ring	ASTM A105N+HF	ASTM A182 F316+HF	ASTM A350 LF2+HF	ASTM A105N+HF
Disc	ASTM A216 WCB+CR13	ASTM A351 CF8M	ASTM A352 LCC+HF	ASTM A216 WCB+CR13(NACE)
Hinge	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A216 WCB
Pin	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410(NACE)
Disc Nut	ASTM A276 410	ASTM A276 316	ASTM A276 316	ASTM A276 410(NACE)
Hinge Pin	ASTM A182 F6A	ASTM A276 316	ASTM A182 F316	STAINLESS STEEL
Plug	ASTM A105N	ASTM A182 F316	ASTM A350 LF2	ASTM A105N
Gasket	SPW.SS+GRAPHITE/RTJSS	SPW.SS+GRAPHITE/RTJ.SS	SPW.SS+GRAPHILE/RTJ.SS	SPW.SS+GRAPHILE/RTJ.SS
Bonnet Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A320 L7	ASTM A193 B7M
Bonnet Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 7	ASTM A194 2HM
Cover	ASTM A216 WCB	ASTM A351 CF8M	ASTM A352 LCC	ASTM A216 WCB
O-Ring	VITON A	VITON A	VITON A	VITON A

Material list, other materials available/provided.



YVI Valve - Engineering Data

API 6D Check Valve Engineering Specifications

NPS	in	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	30"	36"	40"	48"
D	in	2.01	2.99	4.02	5.98	7.99	10	12.01	13.27	15.24	17.24	19.25	23.27	25	29.02	34.49	38.5	45.98
	mm	51	76	102	152	203	254	305	337	387	438	489	591	635	737	876	978	1168
L-L1 (RF-BW)	in	7.99	9.49	11.5	14.02	19.49	24.49	27.52	30.98	34.02	38.5	38.5	50.98	50.98	60	77.01	77.01	100
	mm	203	241	292	356	495	622	699	787	864	978	978	1295	1295	1524	1956	1956	2540
H	in	5.51	5.51	7.01	11.02	14.1	15.12	17.13	17.2	18.98	21.06	22.64	24.21	26.93	31.02	36.57	42.91	54.76
	mm	140	140	178	280	359	384	435	437	482	535	575	615	684	788	929	1090	1391
WT	kg	19	30	42	84	150	230	332	368	490	632	846	1370	1450	2120	2980	4870	7950

NPS	in	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	30"	36"	40"	48"
D	in	2.01	2.99	4.02	5.87	8.11	10	12.01	13.27	15.24	17.24	19.25	23.27	25	29.02	34.49	38.5	45.98
	mm	51	76	102	149	206	254	305	337	387	438	489	591	635	737	876	978	1168
L-L1 (RF-BW)	in	10.51	12.52	14.02	17.52	20.98	24.49	27.99	32.99	34.02	38.5	40	52.99	52.99	62.76	82.01	82.52	100
	mm	267	318	356	445	533	622	711	838	864	978	1016	1346	1346	1594	2083	2096	2540
H	in	9.61	7.56	8.39	11.1	12.32	15.28	17.01	19.06	20.87	23.31	25.12	28.35	30.12	34.17	40.16	46.46	100
	mm	148	192	213	282	313	388	432	484	530	592	638	720	765	868	1020	1180	2540
WT	kg	22	42	71	127	212	297	370	490	615	735	980	1815	2115	2460	4730	6780	13900

NPS	in	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	30"	36"	40"
D	in	2.01	2.99	4.02	5.87	7.99	10	12.01	13.27	15.24	17.24	19.25	23.27	25.16	29.02	34.49	38.5
	mm	51	76	102	149	203	254	305	337	387	438	489	591	639	737	876	978
L-L1 (RF-BW)	in	11.5	14.02	17.01	22.01	25.98	30.98	32.99	35	39.02	43	47.01	55	57.01	65	82.01	82.52
	mm	292	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1651	2083	2096
L2 (RTJ)	in	11.61	14.13	17.13	22.13	26.14	31.14	33.11	35.12	39.13	43.11	47.24	55.39	57.52	65.51	-	-
	mm	295	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1664	-	-
H	in	6.18	7.48	8.66	12.62	17.6	16.57	18.62	20.94	28.7	26.3	32.3	38.2	33.46	34.61	37.68	43.78
	mm	157	190	220	320.5	448	421	473	532	730	668	820	971	850	879	957	1112
WT	kg	36	61	116	217	420	570	788	1020	1440	1695	2600	3600	4715	5880	10450	15400

NPS	in	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
D	in	2.01	2.99	4.02	5.98	7.99	10	12.01	12.76	15.24	16.73	18.62	22.52
	mm	51	76	102	152	203	254	305	324	387	425	473	572
L-L1 (RF-BW)	in	14.49	15	17.99	24.02	29.02	32.99	37.99	40.51	44.49	47.99	52.01	60.98
	mm	368	381	457	610	737	838	965	1029	1130	1219	1321	1549
L2 (RTJ)	in	14.61	15.12	18.11	24.13	29.13	33.11	38.11	40.88	44.88	48.5	52.52	61.73
	mm	371	384	460	613	740	841	968	1038	1140	1232	1334	1568
H	in	6.38	12	7.95	16.7	16.34	18.03	19.84	27	30.7	27.87	30.39	35.31
	mm	162	305	202	423	415	458	504	686	781	708	772	897
WT	kg	76	82	160	272	548	944	1560	1660	2060	3020	3750	5400

NPS	in	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
D	in	2.01	2.99	4.02	5.75	7.64	9.49	11.38	12.36	14.25	16.02	17.99	21.02
	mm	51	76	102	146	194	241	289	314	362	407	457	534
L-L1 (RF-BW)	in	14.49	18.5	21.5	27.76	32.76	39.02	44.49	49.49	54.49	60.51	65.51	76.5
	mm	368	470	546	705	832	991	1130	1257	1384	1537	1664	1943
L2 (RTJ)	in	14.61	18.62	21.61	27.99	33.11	39.37	45.12	50.24	55.39	61.38	66.38	77.64
	mm	371	473	549	711	841	1000	1146	1276	1407	1559	1686	1972
H	in	7.24	9.84	14.7	19.8	23.9	17.8	29.9	22.32	24.53	27.09	29.21	33.94
	mm	184	250	373	502	608	452	760	567	623	688	742	862
WT	kg	76	128	230	506	942	1750	2350	2950	3600	5500	6800	10150

NPS	in	2"	3"	4"	6"	8"	10"	12"
D	in	1.73	2.52	3.5	5.24	7.13	8.86	10.51
	mm	44	64	89	133	181	225	267
L-L1 (RF-BW)	in	17.76	22.76	26.5	35.98	40.24	50	55.98
	mm	451	578	673	914	1022	1270	1422
L2 (RTJ)	in	17.87	22.99	26.89	36.5	40.87	50.87	56.89
	mm	454	584	683	927	1038	1292	1445
H	in	10.71	12.2	15.2	17.13	19.61	22.52	27.13
	mm	272	310	386	435	498	572	689
WT	kg	145	260	480	1020	1700	3110	3700

All technical data is subject to change without notice.

Additional valve types, materials of construction, and options are available upon request.

1 - Valve Size

20

Valve Size in Inches

2 - Valve Type

GA

GA = API 600 Gate

GL = API 623 Globe

SN = API 594 Swing Check (Internal Pin)

SX = API 594 Swing Check (External Pin)

GAL = API 603 Gate

GAC = API 600 Cryogenic Gate

GAP = Pressure Seal Gate (API 600 Wall Thickness)

GLP = Pressure Seal Globe (API 623 Wall Thickness)

SDN = API 6D Swing Check (Internal Pin)

SDX = API 6D Swing Check (External Pin)

3 - Valve Class

1

1 = 150

3 = 300

6 = 600

9 = 900

15 = 1500

25 = 2500

4 - End Connection

R

R = Raised-Face Flange

B = Butt-Weld

J = Ring-Type Joint Flanged

F = Flat-Faced Flange

5 - Operator

G

G = Gear Operator

M = Electric Actuator

BS = Bare Shaft

6 - Body Materials

WCB

WCB = A216 Gr.WCB

LCB = A352 Gr.LCB

LCC = A352 Gr.LCC

WC6 = A217 Gr.WC6

WC9 = A217 Gr.WC9

C5 = A217 Gr.C5

C12 = A217 Gr.C12

CF8 = A351 Gr.CF8

CF8M = A351 Gr.CF8M

CF3 = A351 Gr.CF3

CF3M = A351 Gr.CF3M

CD4MCuN = A995 Gr.CD4MCuN

4A = A995 Gr.4A

7 - Trim Materials

8

Number	Disc	Seat	Stem
1 =	13Cr	13Cr	ASTM A182 Grade F6a
2 =	304SS	304SS	ASTM A182 Grade F304
5 =	HF	HF	ASTM A182 Grade F6a
8 =	13Cr	HF	ASTM A182 Grade F6a
9 =	Monel	Monel	Monel
10 =	316SS	316SS	ASTM A182 Grade F316
12 =	316SS	HF	ASTM A182 Grade F316

8 - Special Code

NC

NC = NACE

ES = Extended Stem

EB = Extended Bonnet

BP = By Pass

EXAMPLE



YVI - 20GA1R-G-WCB-8-NC



YDF VALVE INTERNATIONAL, INC.

Product Warranty

Seller will repair or replace without charge or refund the purchase price of products provided by seller which are determined to be defective in material or workmanship, provided in each case that the product was properly installed and was used in an acceptable service for which the product was intended. A written claim, specifying the alleged defect and service conditions must be presented to the seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with removal or replacement of the defective product.

The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.

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