

PACIFIC VALVES



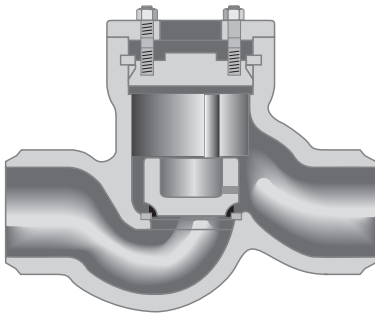
Pressure Seal Valves

CRANE[®]
Energy Flow Solutions

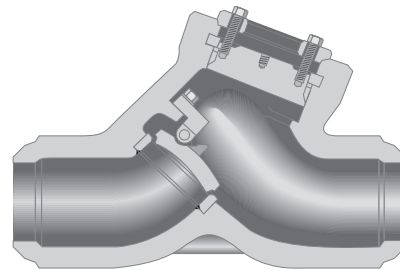
Product Overview

CHECK VALVES

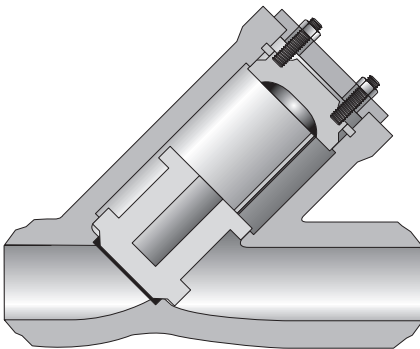
1. Check valves are suited for moderately high velocity applications. For optimum performance, however, these valves should operate within a flow range sufficient to hold the valve open fully, but not so high that it produces excessive turbulence and pressure drop. Either extreme may damage valve internals, and shorten operating life.
2. Service involving frequent flow reversals or fluid pulsations should be avoided. Locating check valves no closer than five pipe diameters from elbows and other flow diverting means can minimize or eliminate problems in most installations. Where this is not possible, it may be necessary to reduce the maximum velocity by as much as 50%.
3. Excessive fluid noise is usually an indication that cavitation is occurring.
4. Check valves are normally designed for installation in horizontal pipe runs or in vertical lines where flow is up only. When valves are used in vertical pipe runs, this should be clearly specified.
5. If severe conditions are outside these recommendations contact Pacific Valves for further information prior to use.



T-Pattern Lift-Check Valve



Tilting Disc Check Valve



Y-Pattern Lift-Check Valve



Swing Check Valve

PACIFIC VALVES CODES AND STANDARDS

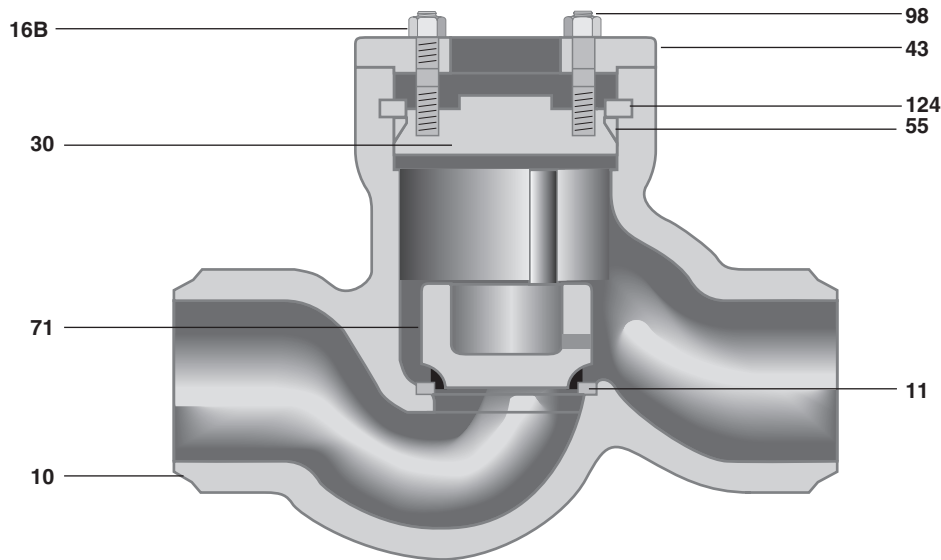
Years of research and development, together with practical experience in reconditioning all types of valves, have gone into the design and manufacture of Pacific valves. High quality material and workmanship, combined with the modern manufacturing methods used in producing these valves, is your assurance of a dependable, uniform product. Pacific valves are designed in accordance with applicable requirements of the latest edition of the following standards.

- API** – American Petroleum Institute
- MSS** – Manufacturers' Standardization Society of the Valve and Fittings Industry
- ASME** – American Society of Mechanical Engineers



Pressure Seal Valves

Materials of Construction: Lift-Check Valve



NO	PART NAME	CARBON STEEL	1½ CHROME	2¼ CHROME	9 Cr-1Mo-V	316 STAINLESS
98	BONNET STUDS	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7
16b	STUD NUTS	ASTM A194 GR 2H	ASTM A194 GR 2H	ASTM A194 GR 2H	ASTM A194 GR 2H	ASTM A194 GR 2H
43	BONNET CARRIER	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
124	SEGMENT RING	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140
73	THRUST RING ³	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140
55	GASKET	MILD STEEL SILVER PLATED	MILD STEEL SILVER PLATED	MILD STEEL SILVER PLATED	MILD STEEL SILVER PLATED	ASTM A182 GR F316L CHROME PLATED
30	BONNET CAP	CARBON STEEL	ASTM A182 GR F22	ASTM A182 GR F22	ASTM A182 GR F91	ASTM A182 GR F316
71	DISC	CARBON STEEL W/CO-CR-A OVERLAY	316 SS OR 2¼ CR W/CO-CR-A OVERLAY	316 SS OR 2¼ CR W/CO-CR-A OVERLAY	316 SS W/CO-CR-A OVERLAY	316L W/CO-CR-A OVERLAY
10	BODY ¹	ASTM A216 GR WCB or WCC ²	ASTM A217 GR WC6	ASTM A217 GR WC9	ASTM A217 GR C12A	ASTM A351 GR CF8M
11	SEAT RING	CARBON STEEL W/CO-CR-A OVERLAY	316 SS OR 2¼ CR W/CO-CR-A OVERLAY	316 SS OR 2¼ CR W/CO-CR-A OVERLAY	316 SS W/CO-CR-A OVERLAY	316L SS W/CO-CR-A OVERLAY

Pacific Valves reserves the right to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modifications on products previously or subsequently sold.

NOTES:

1. A 309 SS inlay is standardly furnished in the gasket area of the body on ASME class 2500 valves. For this option on other pressure classes, specify special features suffix H.
2. WCC valve bonnet and internals will be manufactured with 300 series stainless or 2¼ CR material.
3. Thrust ring comes standard on 12" and larger ASME class 1500 and all sizes of ASME class 2500.

Pressure Seal Valves

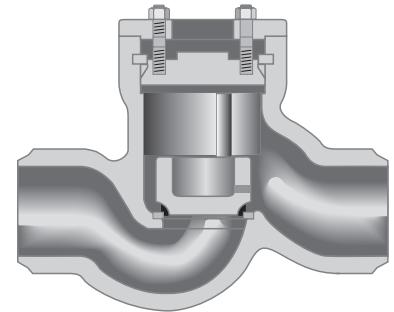


Lift-Check Valve • ASME Class 900

- Fig. No. **58609-7-WE*** Butt Weld Ends
 Fig. No. **58609-7** Flanged, Raised Face
 Fig. No. **58609-7-RJ** Flanged, Ring Joint

Dim	Description		VALVE SIZES (inches)								
			2	2.5	3	4	6	8	10	12	14
A	End to End Weld Ends	in.	12	12	12	14	20	26	31	36	39
		mm	304	304	304	355	508	660	787	914	990
A ₁	Face to Face Flanged Ends	in.	N/A	N/A	15	18	24	29	33	38	40.5
		mm	N/A	N/A	381	457	609	736	838	965	1028
A ₂	Face to Face RTJ	in.	N/A	N/A	15.13	18.13	24.13	29.13	33.13	38.13	40.88
		mm	N/A	N/A	384	460	612	739	841	968	1039
K	Center to Top Open	in.	6	6	6	7	12	15	17	21	24
		mm	152	152	152	184	292	381	425	533	603
	Weight Weld Ends	lbs	49	49	49	103	299	588	978	1517	2036
		kg	22	22	22	46	135	266	443	688	923
	Weight Flanged Ends	lbs	N/A	N/A	109	180	324	948	1425	2165	3082
		kg	N/A	N/A	49	82	147	430	646	982	1398

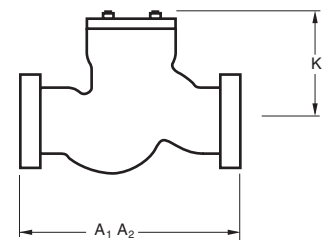
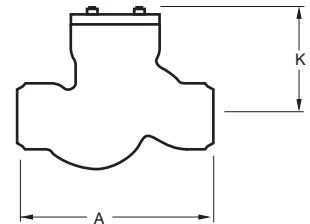
NOTE:
 1. Integral body seat on 2" through 4".



VENTURI LIFT-CHECK VALVES

Fig. No. **58615-7-WE*** Butt Weld Ends

Dim	Description		VALVE SIZES (inches)				
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16
A	End to End	in.	24	29	33	38	40.5
		mm	609	736	838	965	1028
K	Center to Top Open	in.	12	15	17	21	24
		mm	292	381	425	533	603
	Weight	lbs	303	602	1003	1549	2076
		kg	137	373	455	702	941



General Notes:

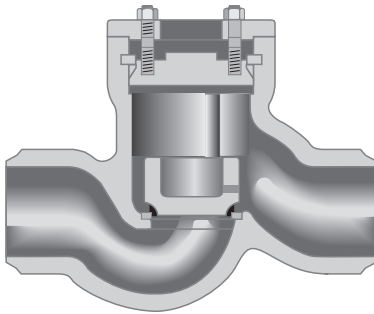
- Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
- For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
 * Specify pipe schedule.
- Related data available in Technical Data, Actuators and Accessories sections.



Pressure Seal Valves

Lift-Check Valve • ASME Class 1500

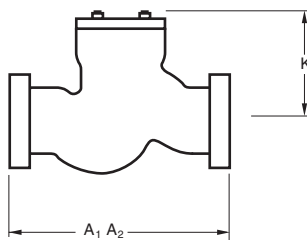
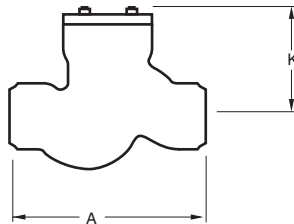
Fig. No. **58615-7-WE*** Butt Weld Ends
 Fig. No. **58615-7** Flanged, Raised Face
 Fig. No. **58615-7-RJ** Flanged, Ring Joint



Dim	Description	VALVE SIZES (inches)								
		2	2.5	3	4	6	8	10	12	
A	End to End Weld Ends	in.	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5
		mm	368	419	469	546	705	831	990	1130
A ₁	Face to Face Flanged Ends	in.	16.5	16.5	18.5	21.5	27.75	32.75	39	44.5
		mm	419	419	470	546	705	832	991	1130
A ₂	Face to Face RTJ	in.	16.63	16.63	18.63	21.63	28	33.13	39.38	45.13
		mm	422	422	473	549	711	841	100	1146
K	Center to Top	in.	6	6	7	8	12	16	19	21
		mm	152	152	177	203	311	400	488	533
	Weight Weld Ends	lbs	53	53	87	141	424	824	1414	2246
		kg	24	24	39	63	192	373	641	1018
	Weight Flanged Ends	lbs	113	113	167	268	724	1323	2229	3470
		kg	51	51	75	121	328	600	1011	1574

NOTE:

1. Integral body seat on 2" through 4" size.



VENTURI LIFT-CHECK VALVES

Fig. No. **58609-7-WE*** Butt Weld Ends

Dim	Description	VALVE SIZES (inches)				
		8x6x8	10x8x10	12x10x12	14x12x14	
A	End to End	in.	27.75	32.75	39	44.5
		mm	705	831	990	1130
K	Center to Top Open	in.	12	16	19	21
		mm	311	400	488	533
	Weight	lbs	430	840	1444	2282
		kg	195	381	855	1036

General Notes:

- Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
- For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
- Related data available in Technical Data, Actuators and Accessories sections.

Pressure Seal Valves

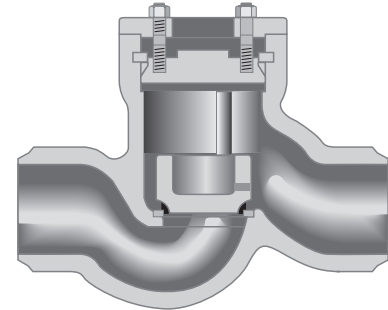


Lift-Check Valve • ASME Class 2500

Fig. No. **58625H-7-WE*** Butt Weld Ends
 Fig. No. **58625H-7** Flanged, Raised Face
 Fig. No. **58625H-7-RJ** Flanged, Ring Joint

Dim	Description	VALVE SIZES (inches)								
		2	2.5	3	4	6	8	10	12	
A	End to End Weld Ends	in.	13	13	15	18	24	29	33	38
		mm	330	330	381	457	609	736	838	965
A1	Face to Face Flanged Ends	in.	20	20	22.75	26.5	36	40.25	50	56
		mm	508	508	578	673	914	1022	1270	1422
A2	Face to Face RTJ	in.	20.25	20.25	23	26.88	36.5	40.88	50.88	56.88
		mm	514	514	584	683	927	1039	1293	1445
K	Center to Top	in.	7	7	8	10	13	17	20	22
		mm	171	171	196	241	323	425	508	552
	Weight Weld Ends	lbs	78	78	121	151	527	900	1700	2801
		kg	35	35	55	68	239	408	771	1270
	Weight Flanged Ends	lbs	173	173	298	416	1214	1937	3689	5901
		kg	78	78	135	189	550	878	1673	2676

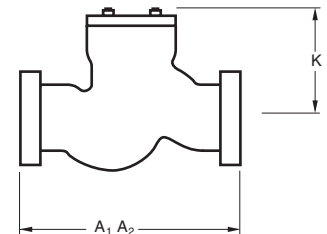
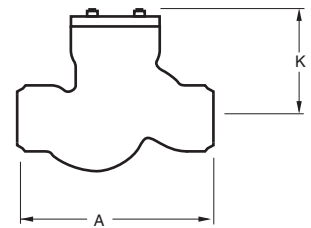
NOTE:
 1. Integral body seat on 2" through 3" size.



VENTURI LIFT-CHECK VALVES

Fig. No. **58625H-7-WE*** Butt Weld Ends

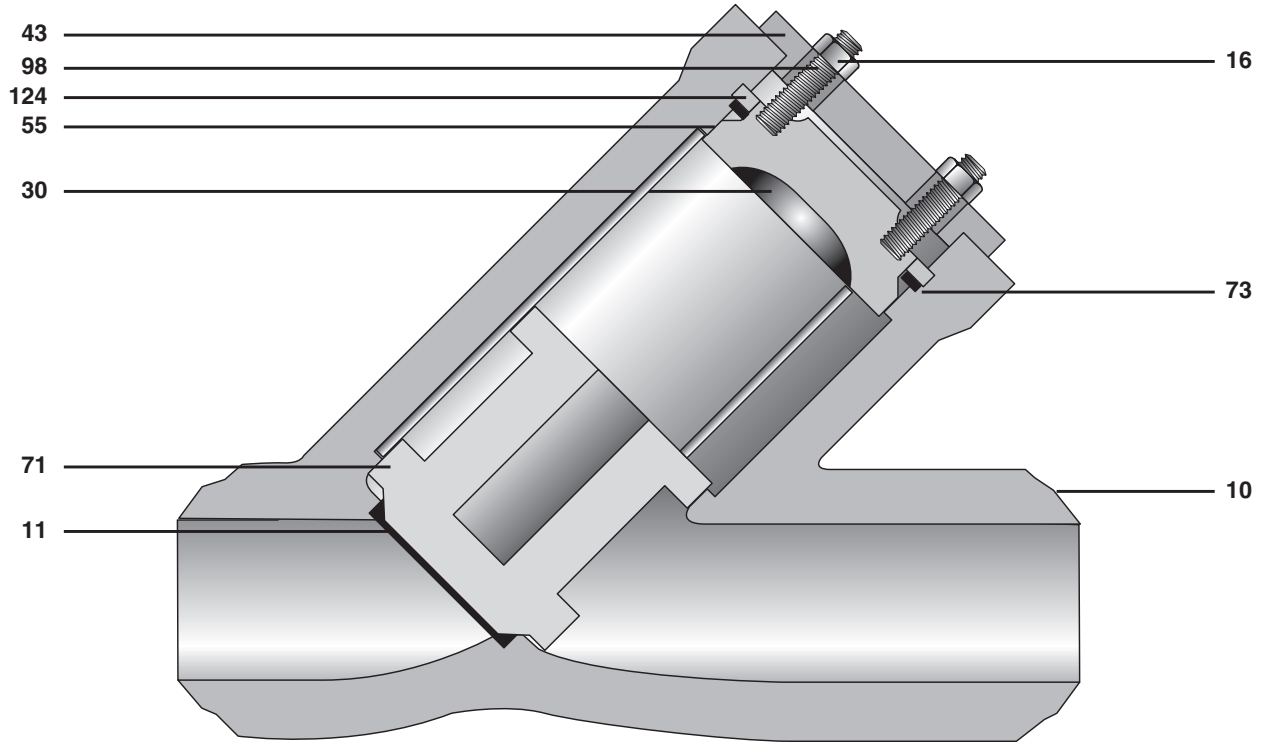
Dim	Description	VALVE SIZES (inches)				
		8x6x8	10x8x10	12x10x12	14x12x14	
A	End to End	in.	36	43	49	64
		mm	914	1092	1244	1625
K	Center to Top Open	in.	13	17	20	22
		mm	323	425	508	552
	Weight	lbs	577	1035	1914	3061
		kg	261	469	868	1388



General Notes:
 1. Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
 2. For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
 * Specify pipe schedule.
 3. Related data available in Technical Data, Actuators and Accessories sections.



Y-Lift-Check Valve



NO	PART NAME	CARBON STEEL	1½ CHROME	2¼ CHROME	9Cr-1Mo-V	316 STAINLESS
10	BODY	ASTM A216 GR WCB OR WCC¹ W/CO-CR-MO-NI	ASTM A217 GR WC6 W/CO-CR-MO-NI	ASTM A217 GR WC9 W/CO-CR-MO-NI	ASTM A217 GR C12A W/CO-CR-MO-NI	ASTM A351 GR CF8M W/CO-CR-MO-NI
11	SEAT RINGS	CARBON STEEL W/ CO-CR-MO-NI	316L SS OR 2¼ CR W/ CO-CR-MO-NI	316L SS OR 2¼ CR W/ CO-CR-MO-NI	316L SS W/ CO-CR-MO-NI	316L SS W/ CO-CR-MO-NI
16	STUD NUTS	ASTM A194 GR 2H	ASTM A194 GR 2H	ASTM A194 GR 2H	ASTM A194 GR 2H	ASTM A194 GR 2H
19	SCREW	A193 GR B7	A193 GR B7	A193 GR B7	A193 GR B7	A193 GR B7
30	BONNET CAP	CARBON STEEL	ASTM A182 GR F11/F22	ASTM A182 GR F22 W/ CARBON STEEL	ASTM A182 GR F91 W/ CARBON STEEL	ASTM A182 GR F316 W/ CARBON STEEL
43	BONNET CARRIER	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
55	GASKET	MILD STEEL SILVER PLATED	MILD STEEL SILVER PLATED	MILD STEEL SILVER PLATED	MILD STEEL SILVER PLATED	ASTM A182 GR F316L CHROME PLATED
71	DISC	CARBON STEEL W/ AISI 4140/4340	316L SS OR 2¼ CR W/ AISI 4140/4340	316L SS OR 2¼ CR W/ AISI 4140/4340	316L SS W/ AISI 4140/4340	316L SS W/ AISI 4140/4340
73	THRUST RING²	AISI 4140/4340	AISI 4140/4340	AISI 4140/4340	AISI 4140/4340	AISI 4140/4340
98	BONNET STUDS	ASTM A193 GR B7	ASTM A193 GR B7	ASTM A193 GR B7	ASTM A193 GR B7	ASTM A193 GR B7
98a	BOLT	ASTM A193 GR B7	ASTM A193 GR B7	ASTM A193 GR B7	ASTM A193 GR B7	ASTM A193 GR B7
124	SEGMENT RING	AISI 4140 OR 4340	AISI 4140 OR 4340	AISI 4140 OR 4340	AISI 4140 OR 4340	AISI 4140 OR 4340

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NOTES:

1. WCC valve bonnets and internals will be manufactured with 300 series SS and/or 2¼ CR.
2. Thrust ring comes standard on 12" and larger ASME class 1500 and all sizes of ASME class 2500.

Pressure Seal Valves

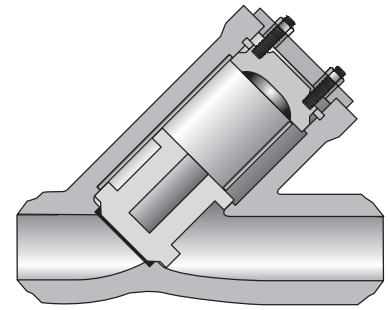


Y-Lift-Check Valve • ASME Class 600

Y-Lift-Check Valves

Fig. No. 59606-7-WE* Butt Weld Ends

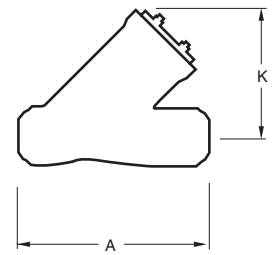
Dim	Description		VALVE SIZES (inches)								
			6	8	10	12	14	16	18	20	24
A	End to End Weld Ends	in	18.00	23.00	28.00	32.00	32.00	41.00	41.00	60.00	66.00
		mm	457	584	711	813	813	1041	1041	1524	1676
K	Center to Top	in	16.00	20.00	25.00	32.38	32.38	41.50	41.50	47.00	55.75
		mm	406	508	635	822	822	1054	1054	1194	1416
	Weight Weld Ends	lbs	400	600	1000	1450	1450	2800	2800	3500	5000
		kg	182	272	454	658	658	1270	1270	1588	2269



VENTURI Y-LIFT-CHECK VALVE

Y-Lift-Check Valve Fig No. 59606-7-WE* Butt Weld Ends

Dim	Description		VALVE SIZES (inches)								
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	22x20x22	26x24x26
A	End to End Weld Ends	in.	18.00	23.00	28.00	32.00	32.00	41.00	41.00	60.00	66.00
		mm	457	584	711	813	813	1041	1041	1524	1676
K	Center to Top	in.	16.00	20.00	25.00	32.38	32.38	41.50	41.50	47.00	55.75
		mm	406	508	635	822	822	1054	1054	1194	1416
	Weight Weld Ends	lbs	400	668	1115	1595	1595	3080	3080	3900	5550
		kg	182	303	506	724	724	1397	1397	1770	2518



General Notes:

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2. For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
3. Related data available in Technical Data, Actuators and Accessories sections.

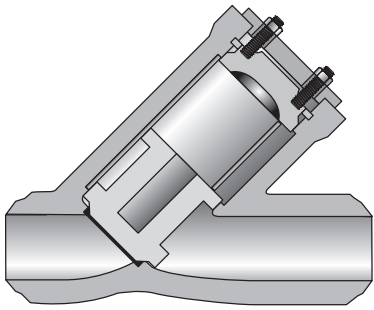


Pressure Seal Valves

Y-Lift-Check Valve • ASME Class 900

Y-Lift-Check Valves

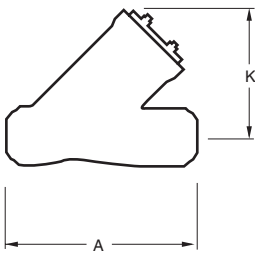
Fig. No. 59609-7-WE* Butt Weld Ends



Dim	Description		VALVE SIZES (inches)								
			6	8	10	12	14	16	18	20	24
A	End to End Weld Ends	in	27.75	30.00	36.25	41.00	43.00	54.00	63.00	54.50	59.50
		mm	705	762	921	1041	1092	1372	1600	1384	1511
K	Center to Top	in	18.7	23.53	28.20	35.10	35.10	44.43	44.43	52.44	62.81
		mm	475	598	716	891	891	1129	1129	1332	1595
	Weight Weld Ends	lbs	400	624	1160	1580	1580	3080	3130	3920	5860
		kg	182	284	527	718	718	1397	1420	1782	2664

VENTURI Y-LIFT-CHECK VALVE

Y-Lift-Check Valve Fig No. 59609-7-WE* Butt Weld Ends



Dim	Description		VALVE SIZES (inches)								
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	22x20x22	26x24x26
A	End to End Weld Ends	in.	27.75	30.00	36.25	41.00	43.00	54.00	63.00	54.50	59.50
		mm	705	762	921	1041	1092	1372	1600	1384	1511
K	Center to Top	in.	18.7	23.53	28.20	35.10	35.10	44.43	44.43	52.44	62.81
		mm	475	598	716	891	891	1129	1129	1332	1595
	Weight Weld Ends	lbs	400	695	1280	1750	1750	3380	3440	4350	6510
		kg	182	316	582	795	794	1534	1560	1977	2959

General Notes:

1. Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
2. For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
3. Related data available in Technical Data, Actuators and Accessories sections.

Pressure Seal Valves

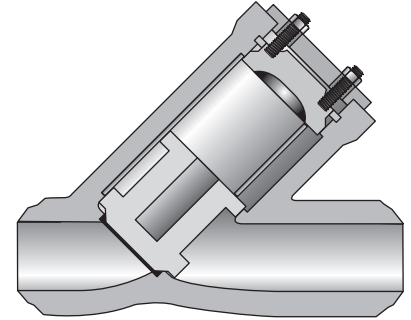


Y-Lift-Check Valve • ASME Class 1500

Y-Pattern Globe Lift-Check Valves

Fig. No. 59615-7-WE Butt Weld Ends

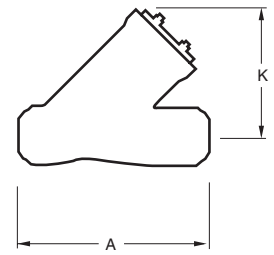
Dim	Description		VALVE SIZES (inches)								
			6	8	10	12	14	16	18	20	24
A	End to End Weld Ends	in	27.75	30.00	36.25	41.00	43.00	54.00	63.00	54.50	59.50
		mm	705	762	921	1041	1092	1372	1600	1384	1511
K	Center to Top	in	18.7	23.53	28.20	35.10	35.10	44.43	44.43	52.44	62.81
		mm	475	598	716	891	891	1129	1129	1332	1595
	Weight Weld Ends	lbs	400	624	1160	1580	1580	3080	3130	3920	5860
		kg	182	284	527	718	718	1397	1420	1782	2664



VENTURI Y-LIFT-CHECK VALVE

Y-Lift-Check Valve Fig No. 59615-7-WE* Butt Weld Ends

Dim	Description		VALVE SIZES (inches)								
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	22x20x22	26x24x26
A	End to End Weld Ends	in.	27.75	30.00	36.25	41.00	43.00	54.00	63.00	54.50	59.50
		mm	705	762	921	1041	1092	1372	1600	1384	1511
K	Center to Top	in.	18.7	23.53	28.20	35.10	35.10	44.43	44.43	52.44	62.81
		mm	475	598	716	891	891	1129	1129	1332	1595
	Weight Weld Ends	lbs	400	695	1280	1750	1750	3380	3440	4350	6510
		kg	182	316	582	795	794	1534	1560	1977	2959



General Notes:

- Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
- For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
- Related data available in Technical Data, Actuators and Accessories sections.

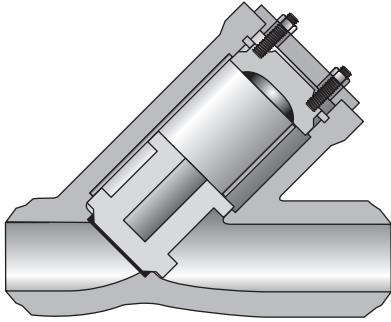


Pressure Seal Valves

Y-Lift-Check Valve • ASME Class 2500

Y-Lift-Check Valves

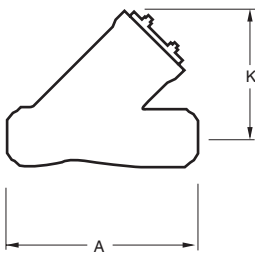
Fig. No. 59625H-7-WE* Butt Weld Ends



Dim	Description		VALVE SIZES (inches)								
			6	8	10	12	14	16	18	20	24
A	End to End Weld Ends	in.	30.00	30.00	36.00	41.00	48.75	48.75	58.00	58.00	68.00
		mm	762	762	914	1041	1238	1238	1473	1473	1727
K	Center to Top	in.	24.11	24.11	29.95	34.60	37.33	37.33	47.44	47.44	50.56
		mm	612	612	761	879	948	95	1205	1205	1284
	Weight Weld Ends	lbs	660	660	1180	1898	3040	3040	4750	4650	7000
		kg	300	300	585	863	1380	1380	2159	2159	3176

VENTURI Y-LIFT-CHECK VALVE

Y-Lift-Check Valve Fig. No. 59625H-7-WE* Butt Weld Ends



Dim	Description		VALVE SIZES (inches)								
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	22x20x22	26x24x26
A	End to End Weld Ends	in.	30.00	30.00	36.00	41.00	48.75	48.75	58.00	58.00	68.00
		mm	762	762	914	1041	1238	1238	1473	1473	1727
K	Center to Top	in.	24.11	24.11	29.95	34.60	37.33	37.33	47.44	47.44	50.56
		mm	612	612	761	879	948	95	1205	1205	1284
	Weight Weld Ends	lbs	725	725	1310	2110	3375	3375	5275	5272	7770
		kg	329	329	594	959	1530	1530	2398	2392	3525

General Notes:

1. Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
2. For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
3. Related data available in Technical Data, Actuators and Accessories sections.

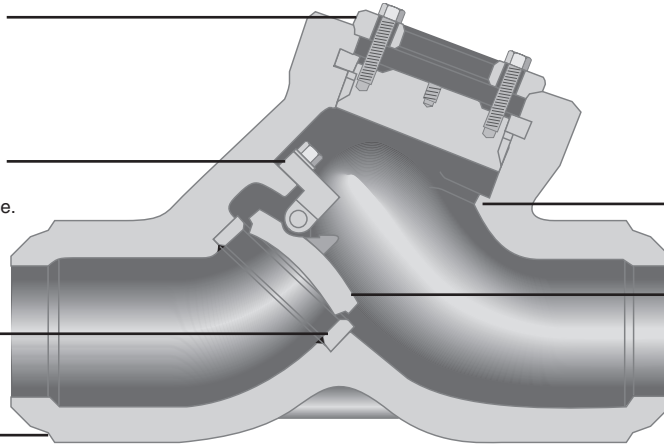
Tilting Disc Check Valve Features

Pressure Seal – uncomplicated design has segmented retaining ring and mild steel silver plated gasket to aid disassembly and provide maximum bonnet seal.

Internal Disc Hanger – unique arrangement eliminates pin seal leakage and simplifies maintenance.

Seat Ring – welded-in seat ring is hardfaced for long life.

Body – streamlined flow path minimizes pressure drop. End-to-end dimensions meet ASME B16.10.



Bonnet Stop – simplify maintenance by keeping bonnet from jamming during disassembly.

Disc – spherical shape for maximum lift with minimum pressure drop. Hardfaced for maximum life.

GENERAL DESIGN FEATURES

Highly Efficient

The Pacific tilting disc check valve uses gravity to rapidly close the disc upon reversal of flow. Unlike most other tilting disc check valves which must swing through a 90° arc, the Pacific design fully opens or closes through an arc of only 45°.

This short-arc coupled with the low pendulum effect achieved by pivoting the disc through a point near its center of gravity assures rapid closure.

Tight Shutoff

Conical seating at an angle to flow is self aligning, tight and always closed in a no-flow situation. Even in vertical (flow-up) pipe runs, this valve provides exceptionally tight shutoff.

Long Life

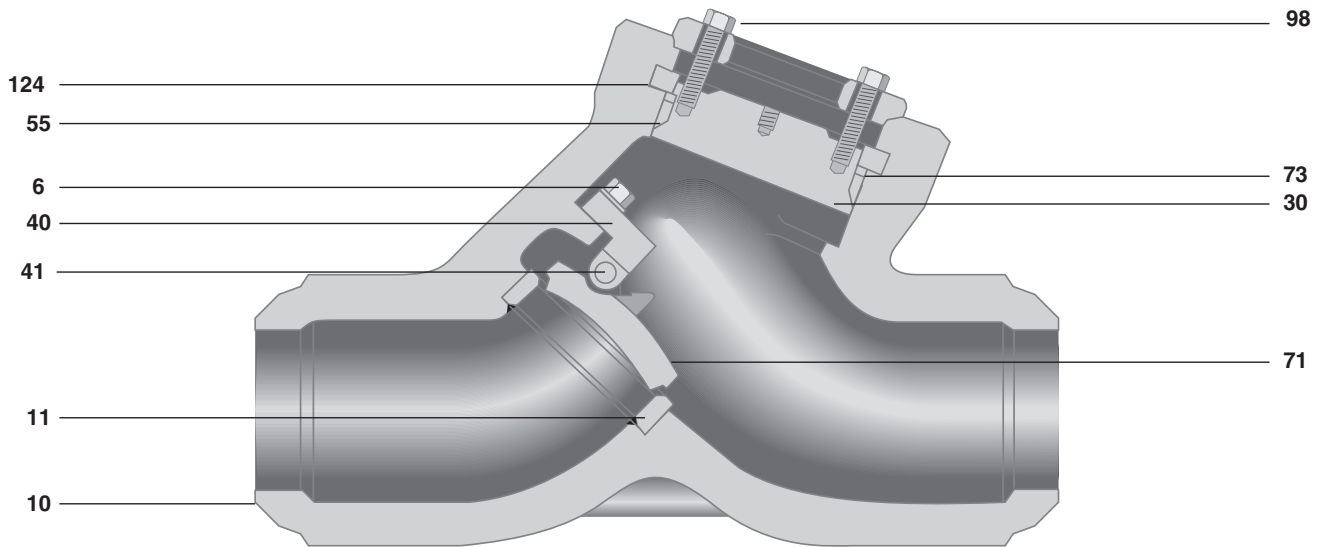
Hardfaced seating surfaces, large diameter hinge pins, and corrosion resistant bearing surfaces help lengthen operating life in tough surfaces. There are no springs to break or bind. A positive internal disc stop prevents flutter.

Internal Disc Hanger

Provides adjustable alignment, eliminates body wall penetrations. The unique Pacific tilting disc check valve internal disc hanger not only eliminates potential leakage through external hinge pins, but because the hanger shelf is machined parallel to the seating surface, it allows adjustment of the disc/seat if seat repair is ever required. By adding or removing precision stainless steel spacers between hanger and shelf, the disc can be “dropped” into the body so as to provide perfect alignment and shutoff. No other design offers this combination of features.



Tilting Disc Check Valve



NO	PART NAME	CARBON STEEL	1½ CHROME	2½ CHROME	9Cr-1Mo-V	316 STAINLESS
30	BONNET CAP	CARBON STEEL	ASTM A182 GR F11/F22	ASTM A182 GR F22	ASTM A182 GRF91	ASTM A182 GR F316
2	BONNET CARRIER	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
98	BONNET CAP SCREW	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7
73	THRUST RING	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140
124	SEGMENT RING	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140	AISI 4340 OR 4140
6	HINGE CAP SCREW	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B7	ASTM 193 GR B8
55	GASKET	MILD STEEL	MILD STEEL	MILD STEEL	MILD STEEL	ASTM A182 GR F316L
		SILVER PLATED	SILVER PLATED	SILVER PLATED	SILVER PLATED	CHROME PLATED
40	HINGE	ASTM A351 GR CA-15	ASTM A351 GR CA-15	ASTM A351 GR CA-15	ASTM A351 GR CA-15	ASTM A351 GR CF8M
41	HINGE PIN	ASTM A582 GR 416	ASTM A582 GR 416	ASTM A582 GR 416	ASTM A582 GR 416	ASTM A705 GR 630
11	SEAT RING	CARBON STEEL	316 SS OR 2½ CR	316 SS OR 2½ CR	316 SS	316L SS
		W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY
71	DISC	ASTM A216 GR WCB	ASTM A217 GR WC6	ASTM A217 GR WC9	ASTM A351 GR 8M	ASTM A351 GR CF8MW
		W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY	W/CO-CR-A OVERLAY
10	BODY	ASTM A216 GR WCC ³	ASTM A217 GR WC6 ²	ASTM A217 GR WC9 ²	ASTM A217 GR C12A	ASTM A351 GR CF8M
118	SHIM	316SS	316SS	316SS	316SS	316SS
126	LOCKING DEVICE	316SS	316SS	316SS	316SS	316SS

Pacific Valves reserves the right to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modifications on products previously or subsequently sold.

NOTES:

1. Body material for weld end valves will be ASTM A351 GR CF3M (316L).
2. A 309 SS inlay is standard in the gasket area of the body on ASME class 2500 valves. For this option on other pressure classes, specify special features suffix H.
3. WCC valve bonnets and internals will be manufactured with 300 series SS and/or 2½ CR.

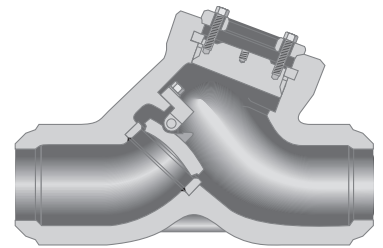
Pressure Seal Valves



Tilting Disc Check Valve • ASME Class 900

Fig. No. **58809-7-WE*** Butt Weld Ends
 Fig. No. **58809-7** Flanged, Raised Face
 Fig. No. **58809-7-RJ** Flanged, Ring Joint

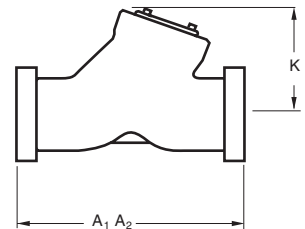
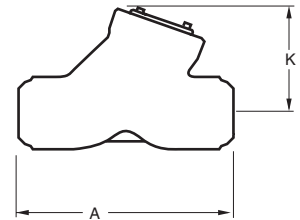
Dim	Description		VALVE SIZES (inches)												
			2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End Weld Ends	in.	10	10	12	14	20	26	31	36	39	43	48	52	61
		mm	254	254	304	355	508	660	787	914	990	1092	1219	1320	1549
A1	Face to Face Flanged Ends	in.	N/A	N/A	15	18	24	19	33	38	40.5	44.5	48	52	61
		mm	N/A	N/A	381	457	609	736	838	965	1028	1130	1219	1320	1549
A2	Face to Face RTJ	in.	N/A	N/A	15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88	48.5	52.5	61.75
		mm	N/A	N/A	384	460	612	739	841	968	1039	1140	1232	1333	1568
K	Center to Top	in.	7.5	7.5	7.5	7.5	9.5	12	15	16.5	18	19.75	23.5	26	31
		mm	190	190	190	190	241	304	381	419	457	501	596	660	787
	Weight Weld Ends	lbs	45	45	45	50	130	240	470	720	900	1300	1840	2430	4200
		kg	20	20	20	23	59	109	213	326	408	589	834	1102	1905
	Weight Flange Ends	lbs	N/A	N/A	110	150	350	610	1000	1460	2000	2600	3650	4725	8400
		kg	N/A	N/A	50	68	159	276	473	662	907	1179	1655	2143	3809



VENTURI TILTING DISC CHECK VALVES

Fig. No. **58809-7-WE*** Butt Weld Ends

Dim	Description		VALVE SIZES (inches)						
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20
A	End to End	in.	24	29	33	38	40.5	44.5	48
		mm	609	736	838	965	1028	1130	1219
K	Center to Top Open	in.	9.5	12	15	16.5	18	19.75	23.5
		mm	241	304	381	419	457	501	596
	Weight	lbs	140	250	485	740	930	1350	1890
		kg	63	113	219	335	421	612	857



General Notes:

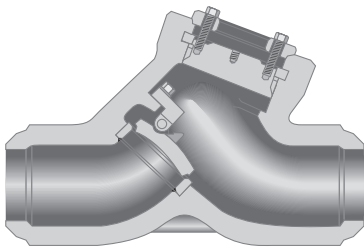
1. Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
2. For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
3. Related data available in Technical Data, Actuators and Accessories sections.



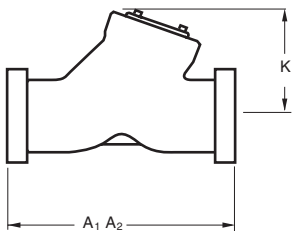
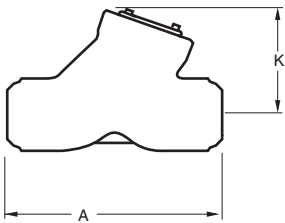
Pressure Seal Valves

Tilting Disc Check Valve • ASME Class 1500

Fig. No. **58815-7-WE*** Butt Weld Ends
 Fig. No. **58815-7** Flanged, Raised Face
 Fig. No. **58815-7-RJ** Flanged, Ring Joint



Dim	Description	VALVE SIZES (inches)													
		2	2.5	3	4	6	8	10	12	14	16	18	20	24	
A	End to End Weld Ends	in.	12	12	12	16	22	28	34	39	42	47	52	56	66
		mm	254	254	304	406	558	711	863	990	1066	1193	1320	1422	1676
A1	Face to Face Flanged Ends	in.	18.5	18.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5	60.5	65.5	76.5
		mm	469	469	469	546	704	831	990	1130	1257	1384	1536	1663	1943
A2	Face to Face RTJ	in.	18.63	18.63	18.63	21.63	28	33.13	39.38	45.13	50.25	55.38	61.38	66.38	77.63
		mm	473	473	473	549	711	841	1000	1146	1276	1406	1559	1686	1972
K	Center to Top	in.	7.5	7.5	7.5	8.5	10.5	13.5	16.5	18.5	20	22	26	29	34.5
		mm	196	196	196	215	266	342	419	469	508	558	660	736	876
	Weight Weld Ends	lbs	55	55	55	80	200	400	720	1100	1380	1980	2790	3700	6370
		kg	25	25	25	36	91	182	326	499	625	857	1265	1678	2888
	Weight Flanged Ends	lbs	150	150	150	220	520	935	1600	2400	3046	4840	6120	8200	12540
		kg	68	68	68	99	235	424	725	1088	1381	2195	2775	3718	5687



VENTURI TILTING DISC CHECK VALVES

Fig. No. **58815-7-WE*** Butt Weld Ends

Dim	Description	VALVE SIZES (inches)							
		8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20	
A	End to End	in.	27.75	32.75	39	44.5	49.5	54.5	60.5
		mm	705	831	990	1130	1257	1384	1536
K	Center to Top Open	in.	10.5	13.5	16.5	18.5	20	22	26
		mm	266	342	419	469	508	558	660
	Weight	lbs	220	430	750	1140	1425	2030	2840
		kg	99	195	340	517	646	920	1287

General Notes:

- Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
- For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
- Related data available in Technical Data, Actuators and Accessories sections.

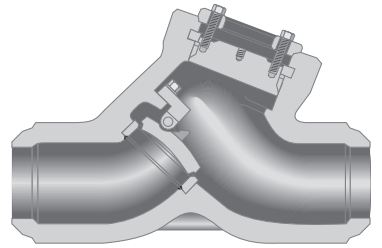
Pressure Seal Valves



Tilting Disc Check Valve • ASME Class 2500

Fig. No. **58825H-7-WE*** Butt Weld Ends
 Fig. No. **58825H-7** Flanged, Raised Face
 Fig. No. **58825H-7-RJ** Flanged, Ring Joint

Dim	Description		VALVE SIZES (inches)												
			2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End Weld Ends	in.	13	13	14.5	18	24	30	36	41	44	48	53	57	66
		mm	330	330	368	457	610	762	914	1041	1117	1219	1346	1447	1676
K	Center to Top	in.	8	8	8	12	13	16	18	21	23	26	28	31	36
		mm	203	203	203	304	330	406	457	533	584	660	711	787	914
	Weight Weld Ends	lbs	80	80	80	110	320	620	1150	1600	2150	2750	3500	4250	6000
		kg	36	36	36	50	145	281	520	725	975	1247	1587	1927	2721
	Weight Flanged Ends	lbs	250	250	250	350	980	1530	3150	4560	4900	5700	6300	7200	9000
		kg	113	113	113	159	445	694	1429	2068	2227	2590	2864	3272	4091



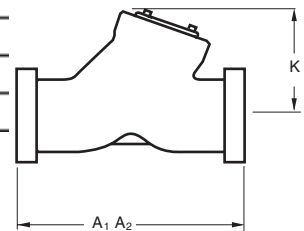
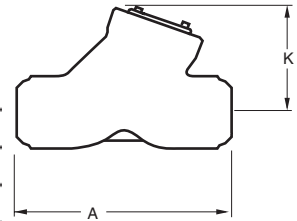
NOTE:

1. For flanged end data on 14"- 24" — contact Pacific Valves.

VENTURI TILTING DISC CHECK VALVES

Fig. No. **58825H-7-WE*** Butt Weld Ends

Dim	Description		VALVE SIZES (inches)						
			8x6x8	10x8x10	12x10x12	14x12x14	16x14x16	18x16x18	20x18x20
A	End to End	in.	28	34	39.75	41	44	49	59.5
		mm	711	863	1009	1041	1117	1244	1511
K	Center to Top Open	in.	13	16	18	21	23	26	28
		mm	330	406	457	533	584	660	711
	Weight	lbs	340	640	1200	1660	2230	2850	4300
		kg	154	290	544	752	1011	1292	1950



General Notes:

- Dimensions, weights and other engineering data are subject to change or modification. This data is not to be used for construction unless confirmed by Pacific Valves.
- For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.
* Specify pipe schedule.
- Related data available in Technical Data, Actuators and Accessories sections.



Pressure Seal Valves

Enhanced Pressure Seal Figure Number System

1 2 - 4 5 6 7 8 - 10 11 12 13 - 15 - 17 - 19 20 21 - 23 24 25 26 27 28 29 30

1 - 2 = Size of Connection

2H = 2 1/2" Valve
03 = 3" Valve

4 - 6 = Valve Type

554 = Parallel Disc
555 = Flex Wedge
560 = T-Globe Stop
565 = T-Globe Stop Check (non return)
580 = Swing Check
586 = Lift Check - Globe
588 = Tilting Disc Check
590 = Y Globe Stop Valve
595 = Y Globe Stop Check
596 = Y Globe Life Check

7 - 8 = Pressure Class

06 = 600
6C = 600 Intermediate Class
(see sales order notes)
09 = 900
9C = 900 Intermediate Class
(see sales order notes)
15 = 1500
1C = 1500 Intermediate Class
(see sales order notes)
25 = 2500
2C = 2500 Intermediate Class
(see sales order notes)
45 = 4500

10 = Valve Port Size

*S = Standard port
R = Reduced port
E = Expanded port

11 - 12 = By Pass, Drain & Bleed Arrangements

* NN = N.A.
EA = Equalizing Line from body neck to A
EB = Equalizing Line from body neck to B
KW = Bonnet Vent in upstream side of wedge
J1 = Single valve bypass from A to B
J2 = Double valve bypass from A to B
J3 = Triple valve bypass from A to B and body neck
JA = Single valve equalizing line from body neck to A
JB = Single valve equalizing line from body neck to B
VV = 6" socket weld nipples with globe style drain valves at locations C&D
PP = 6" socket weld nipples capped at locations C&D
V? = 6" socket weld nipple with globe style drain valve at location? (A-G)
P? = 6" socket weld nipple capped at location? (A-G)

13 = Custom Feature

*N = N.A.
X = See sales order notes

15 = Special Processing

*S = No special processing
Z = See sales order notes

17 = Body Material

1 = WCB
2 = WCC
4 = C12A
5 = C5
6 = WCG
9 = WCG9

19 = Customer Pipe Schedule

A = 10
B = 20
C = 30
D = 40
E = STD
F = 60
G = 80
H = XS
J = 100
K = 120
L = 140
M = 160
N = XXS
X = Custom (see sales order notes)

20 - 21 = Valve Weld End Prep Figure (per ASME B16.25)

Pipe wall thickness .1875" to .88"
*2B = For use with no backing ring or split rectangular backing ring
2C = For use w/continuous rectangular backing ring
2D = For use w/continuous tapered backing ring

Pipe wall thickness greater than .88"
*3B = For use with no backing ring or split rectangular backing ring
3C = For use with continuous rectangular backing ring
3D = For use with continuous tapered backing ring

For use w/GTAW root pass or consumable insert ring
5B = Pipe wall thickness from .38" to 1.0"
6B = Pipe wall thickness over 1.0"

XX= Custom weld ends (see sales order notes)

RF= Raised face flanged end connections

23 = Manual Operation

N = N.A.
H = Handwheel
L = Handwheel with locking device (closed)
R = Handwheel with locking device (open)
J = Handwheel with chain
G = Manual Bevel Gear Operator
C = Manual Bevel Gear Operator with Chainwheel
A = Manual Bevel Gear with Air Wrench
P = Manual Bevel Gear with position indicator
M = Manual Bevel Gear Operator with locking device (closed)
R = Manual Bevel Gear Operator with locking device (open)
B = Hammerblow Handwheel

24 = Valve Actuator

N = N.A.
E = Direct mount Electric Motor Operator
T = Direct mount Electric Motor Operator w/thermal compensating device
F = Electric Motor Operator with Bevel Gear
P = Pneumatic Operator
H = Hydraulic Operator
M = Operator mounted by customer

25 = Gear & Actuator Mounting Dimensions (per MSS SP-102)

N = N.A. 5 = FA25
1 = FA7 6 = FA30
2 = FA10 7 = FA35
3 = FA14 8 = FA40
4 = FA16 9 = Other

* Denotes Standard Offering



Global Headquarters

9200 New Trails Drive, Suite 200
The Woodlands, Texas 77381-5219
Tel: 281-298-5463
Fax: 281-298-1920

Long Beach, CA Operations

3201 Walnut Avenue
Signal Hill, CA 90755
Tel: 562-426-2531
Fax: 562-595-9717

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