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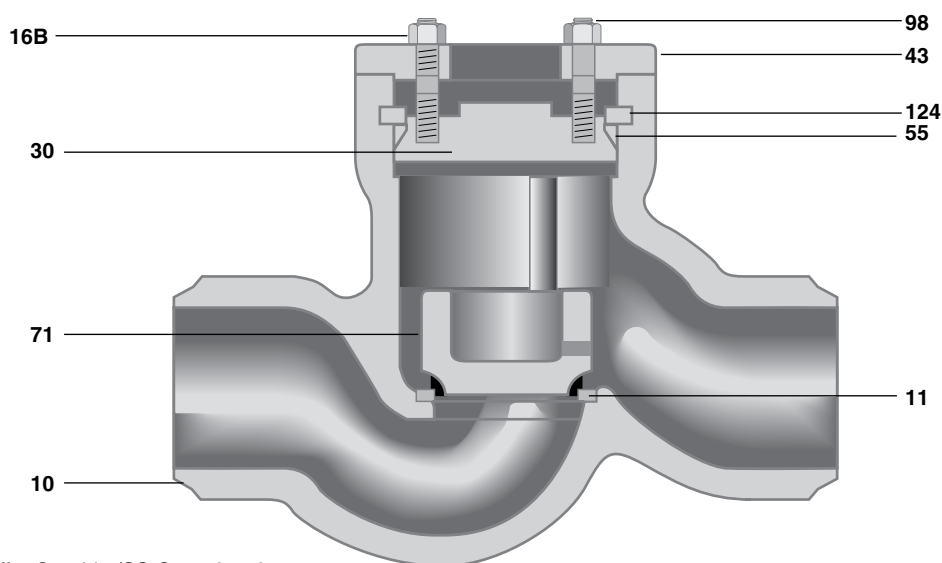
TECHNICAL DATASHEET
PACIFIC VALVES® - Pressure Seal Valves



www.cranecpe.com



Materials Lift-Check Valves



*Pacific Valves offer Graphite/SS Capsulated Pressure Seal Bonnet Gaskets as a standard, Mild Steel Silver Plated Pressure Seal Bonnet Gaskets are available on request.

NO	PART NAME	CARBON STEEL	1¼ 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	GRAPHITE/SS CAPS OR MILD STEEL SILVER PLATED*	GRAPHITE/SS CAPS OR MILD STEEL SILVER PLATED*	GRAPHITE/SS CAPS OR MILD STEEL SILVER PLATED*	GRAPHITE/SS CAPS OR MILD STEEL SILVER PLATED*	GRAPHITE/SS CAPS OR MILD STEEL SILVER 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 OVERLAY	316 SS OR 2¼ CR W/CO-CR OVERLAY	316 SS OR 2¼ CR W/CO-CR OVERLAY	316 SS W/CO-CR OVERLAY	316L W/CO-CR 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 OVERLAY	316 SS OR 2¼ CR W/CO-CR OVERLAY	316 SS OR 2¼ CR W/CO-CR OVERLAY	ALLOY 91 W/CO-CR OVERLAY	316L SS W/CO-CR 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 furnished as a 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.
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.

*Graphite Pressure Seal Bonnet Gasket standard. Mild Steel Silver Plated available on request.

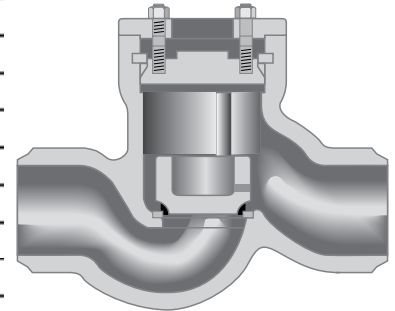
Dimensions Lift-Check Valves • ASME Class 900

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:

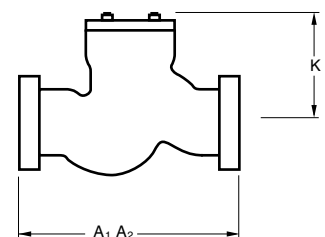
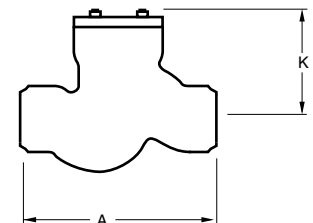
1. Integral body seat on 2" through 4".



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



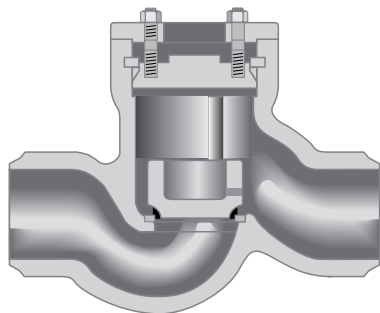
General Notes:

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.



Dimensions Lift-Check Valves • ASME Class 1500

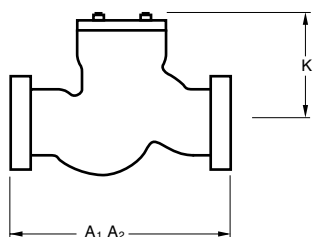
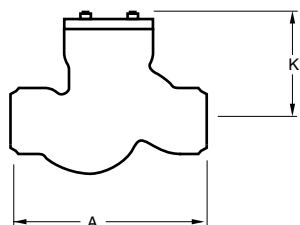
Fig. No. **58615-7-WE*** Butt Weld Ends
 Fig. No. **58615-7** Flanged, Raised Face
 Fig. No. **58615-7-RJ** Flanged, Ring Joint



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:

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.

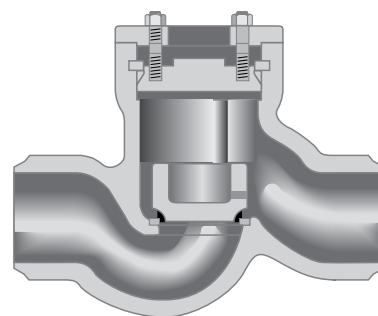
Dimensions Lift-Check Valves • ASME Class 2500

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:

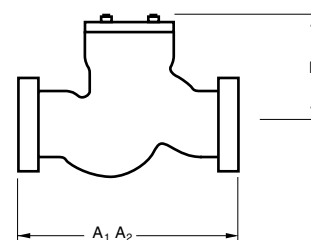
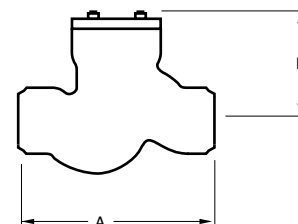
1. Integral body seat on 2" through 3" size.



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:

- 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 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 = WCC6
9 = WC9

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 with continuous rectangular backing ring
2D = For use with 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 with 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 with 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



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