Pressure Seal Valves
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.

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
<table>
<thead>
<tr>
<th>NO</th>
<th>PART NAME</th>
<th>CARBON STEEL</th>
<th>1⁄4 CHROME</th>
<th>2⁄3 CHROME</th>
<th>9 Cr-1Mo-V</th>
<th>316 STAINLESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>98</td>
<td>BONNET STUDS</td>
<td>ASTM 193 GR B7</td>
<td>ASTM 193 GR B7</td>
<td>ASTM 193 GR B7</td>
<td>ASTM 193 GR B7</td>
<td>ASTM 193 GR B7</td>
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<tr>
<td>16b</td>
<td>STUD NUTS</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
</tr>
<tr>
<td>43</td>
<td>Bonnet CARRIER</td>
<td>CARBON STEEL</td>
<td>CARBON STEEL</td>
<td>CARBON STEEL</td>
<td>CARBON STEEL</td>
<td>CARBON STEEL</td>
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<tr>
<td>124</td>
<td>SEGMENT RING</td>
<td>AISI 4340 OR 4140</td>
<td>AISI 4340 OR 4140</td>
<td>AISI 4340 OR 4140</td>
<td>AISI 4340 OR 4140</td>
<td>AISI 4340 OR 4140</td>
</tr>
<tr>
<td>73</td>
<td>THRUST RING</td>
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<td>CARBON STEEL</td>
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<td>316 SS OR 2 1⁄4 CR</td>
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</tr>
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<td>10</td>
<td>BODY</td>
<td>ASTM A216 GR WCB or WCC</td>
<td>316 SS OR 2 1⁄4 CR</td>
<td>316 SS OR 2 1⁄4 CR</td>
<td>316 SS OR 2 1⁄4 CR</td>
<td>316 SS</td>
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</table>

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 2 1⁄4 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

### VALVE SIZES (inches)

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<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
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</thead>
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<tr>
<td>A</td>
<td>End to End Weld Ends</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>14</td>
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<td>355</td>
<td>508</td>
<td>660</td>
<td>787</td>
<td>914</td>
<td>990</td>
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<td>N/A</td>
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<td>18</td>
<td>24</td>
<td>29</td>
<td>33</td>
<td>38</td>
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<tr>
<td>mm</td>
<td></td>
<td>N/A</td>
<td>N/A</td>
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<td>457</td>
<td>609</td>
<td>736</td>
<td>838</td>
<td>965</td>
<td>1028</td>
</tr>
<tr>
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<td>N/A</td>
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<td>N/A</td>
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<td>K</td>
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<td>6</td>
<td>7</td>
<td>12</td>
<td>15</td>
<td>17</td>
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<tr>
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<td>49</td>
<td>49</td>
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<td>299</td>
<td>588</td>
<td>978</td>
<td>1517</td>
<td>2036</td>
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<td>22</td>
<td>46</td>
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</tr>
<tr>
<td>kg</td>
<td></td>
<td>49</td>
<td>82</td>
<td>147</td>
<td>430</td>
<td>646</td>
<td>982</td>
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### VENTURI LIFT-CHECK VALVES

### VALVE SIZES (inches)

<table>
<thead>
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<th>Dim</th>
<th>Description</th>
<th>8x6x8</th>
<th>10x8x10</th>
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<td>A</td>
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<td>24</td>
<td>29</td>
<td>33</td>
<td>38</td>
<td>40.5</td>
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<td></td>
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<td>609</td>
<td>736</td>
<td>838</td>
<td>965</td>
<td>1028</td>
</tr>
<tr>
<td>K</td>
<td>Center to Top Open</td>
<td>12</td>
<td>15</td>
<td>17</td>
<td>21</td>
<td>24</td>
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<td></td>
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<td>381</td>
<td>425</td>
<td>533</td>
<td>603</td>
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<td>Weight</td>
<td>303</td>
<td>602</td>
<td>1003</td>
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<td>lbs</td>
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### 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.
3. Specify pipe schedule.
# 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

## Pressure Seal Valves

### Pressure Seal Valves

<table>
<thead>
<tr>
<th>Dim</th>
<th>Description</th>
<th>VALVE SIZES (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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<tr>
<td></td>
<td>in.</td>
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<tr>
<td></td>
<td>mm</td>
<td>368</td>
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<tr>
<td>A₁</td>
<td>Face to Face Flanged Ends</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>16.5</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>419</td>
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<tr>
<td>A₂</td>
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<tr>
<td>K</td>
<td>Center to Top</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>kg</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td>kg</td>
<td>51</td>
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**NOTE:**
1. Integral body seat on 2” through 4” size.

![Diagram of Pressure Seal Valves](image)

## Venturi Lift-Check Valves

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

<table>
<thead>
<tr>
<th>Dim</th>
<th>Description</th>
<th>VALVE SIZES (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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</tr>
<tr>
<td></td>
<td>in.</td>
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<td>mm</td>
<td>705</td>
</tr>
<tr>
<td>K</td>
<td>Center to Top Open</td>
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</tr>
<tr>
<td></td>
<td>in.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>311</td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td>430</td>
</tr>
<tr>
<td></td>
<td>kg</td>
<td>195</td>
</tr>
</tbody>
</table>

**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.
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

<table>
<thead>
<tr>
<th>Dim</th>
<th>Description</th>
<th>VALVE SIZES (inches)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>A</td>
<td>End to End Weld Ends</td>
<td>in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm.</td>
</tr>
<tr>
<td>A1</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>mm.</td>
</tr>
<tr>
<td>A2</td>
<td>Face to Face RTJ</td>
<td>in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm.</td>
</tr>
<tr>
<td>K</td>
<td>Center to Top</td>
<td>in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm.</td>
</tr>
<tr>
<td></td>
<td>Weight Weld Ends</td>
<td>lbs</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Weight Flanged Ends</td>
<td>lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>kg</td>
</tr>
</tbody>
</table>

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

VENTURI LIFT-CHECK VALVES

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

<table>
<thead>
<tr>
<th>Dim</th>
<th>Description</th>
<th>VALVE SIZES (inches)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8x6x8</td>
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<tr>
<td>A</td>
<td>End to End</td>
<td>in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm.</td>
</tr>
<tr>
<td>K</td>
<td>Center to Top Open</td>
<td>in.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm.</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>kg</td>
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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.
### Pressure Seal Valves

#### Y-Lift-Check Valve

<table>
<thead>
<tr>
<th>NO</th>
<th>PART NAME</th>
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<th>1/4 CHROME</th>
<th>3/4 CHROME</th>
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<th>316 STAINLESS</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>BODY</td>
<td>ASTM A216 GR WC6 OR WCC</td>
<td>ASTM A217 GR WC6</td>
<td>ASTM A217 GR WC9</td>
<td>ASTM A217 GR WC12A</td>
<td>ASTM A201 GR CF316M</td>
</tr>
<tr>
<td>16</td>
<td>STUD NUTS</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
<td>ASTM A194 GR 2H</td>
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<td>SCREW</td>
<td>A193 GR B7</td>
<td>A193 GR B7</td>
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<td>A193 GR B7</td>
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<td>30</td>
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<td>CARBON STEEL</td>
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<td>ASTMA182 GR F91 W/</td>
<td>ASTM A182 GR F91 W/</td>
<td>ASTM A182 GR F91 W/</td>
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<td>316L SS OR 2½ CR W/</td>
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<td>4140 OR 4340</td>
<td>4140 OR 4340</td>
<td>4140 OR 4340</td>
<td>4140 OR 4340</td>
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</tbody>
</table>

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. 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

### VALVE SIZES

<table>
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<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>24</th>
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<td>32.00</td>
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<td>41.00</td>
<td>60.00</td>
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<td>mm</td>
<td>457</td>
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<td>711</td>
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<td>1676</td>
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<td>16.00</td>
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### VENTURI Y-LIFT-CHECK VALVE

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

<table>
<thead>
<tr>
<th>Dim</th>
<th>Description</th>
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<th>10x8x10</th>
<th>12x10x12</th>
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### 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.
Y-Lift-Check Valves
Fig. No. 59609-7-WE* Butt Weld Ends

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VENTURI Y-LIFT-CHECK VALVE
Y-Lift-Check Valve Fig No. 59609-7-WE* Butt Weld Ends

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**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.
3. Specified pipe schedule.
# Pressure Seal Valves

## Y-Lift-Check Valve • ASME Class 1500

### Y-Pattern Globe Lift-Check Valves

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

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### VENTURI Y-LIFT-CHECK VALVE

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

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### 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.
Pressure Seal Valves

Y-Lift-Check Valves

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**VENTURI Y-LIFT-CHECK VALVE**

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**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.
Pressure Seal Valves

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.

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

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

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.
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.

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3201 Walnut Avenue Signal Hill, CA 90755
Tel: 562-426-2531 • Fax: 562-595-9717 • www.cranenergy.com

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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

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<td>7.5</td>
<td>7.5</td>
<td>9.5</td>
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VENTURI TILTING DISC CHECK VALVES

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

<table>
<thead>
<tr>
<th>Dim</th>
<th>Description</th>
<th>VALVE SIZES (inches)</th>
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</thead>
<tbody>
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<td></td>
<td></td>
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<tr>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>Weight</td>
<td>lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>kg</td>
</tr>
</tbody>
</table>

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.
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

<table>
<thead>
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<tr>
<td></td>
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<td>Weight Weld Ends</td>
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VENTURI TILTING DISC CHECK VALVES

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

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<td></td>
<td></td>
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</tr>
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<td></td>
<td>kg</td>
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</table>

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.
3. Specify pipe schedule.
# 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

<table>
<thead>
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<th>3</th>
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<td>16</td>
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<td>203</td>
<td>304</td>
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<td>406</td>
<td>457</td>
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**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

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<th>Description</th>
<th>VALVE SIZES (inches)</th>
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**General Notes:**  
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2. For best performance, size for full open operation. See Flow Calculations in the Technical Data Section.  
# 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 ½’ 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 |
| 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 = WC6 |
| 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 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) |
| 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 |
| 2 = FA10 |
| 3 = FA14 |
| 4 = FA16 |
| 6 = FA30 |
| 7 = FA35 |
| 8 = FA40 |
| 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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