



# Series 583

## 3 through 36-inches

### “Tite Seal” Foot Valve



- Full Pipe Size Flow Area
- Lowest Head Loss
- 360° Stainless Steel Strainer
- Buna-N® “Tite Seal” Zero Leakage Means No Loss of Prime

Cla-Val “Tite Seal” foot valves provide years of trouble free operation at low or high pressures. The special Buna-N® seal allows initial contact to the metal plug, for zero leakage, then as pressure builds, the Buna-N® seal is compressed only slightly until the plug fully contacts the metal seat preventing further compression of the Buna-N® seal. In this manner the seal cannot be damaged from compression and pump prime is always assured. A 360 degree stainless steel strainer (not plated steel) is provided standard with at least, three times flow-thru area of the foot valve size. This greatly enlarged flow thru area strainer means full flow can be maintained even should some small particles collect against the strainer. Cla-Val “Tite Seal” Foot Valves provide non-shock and silent shut-off.

Series 583 Valves meet Federal Mandate for Lead Content Limits

### Cla-Val “Tite Seal” Foot Valve Specifications

The foot valve shall be globe style, flanged with resilient seal against metal; provide full flow equal to valve size and shut-off silently. Foot valve internals shall include a plug, double guided that allows full pipe flow when open. A guide bushing and all internals shall be field replaceable. The metal seat with Buna-N® seal shall provide zero leakage at low and high pressures without seal damage.

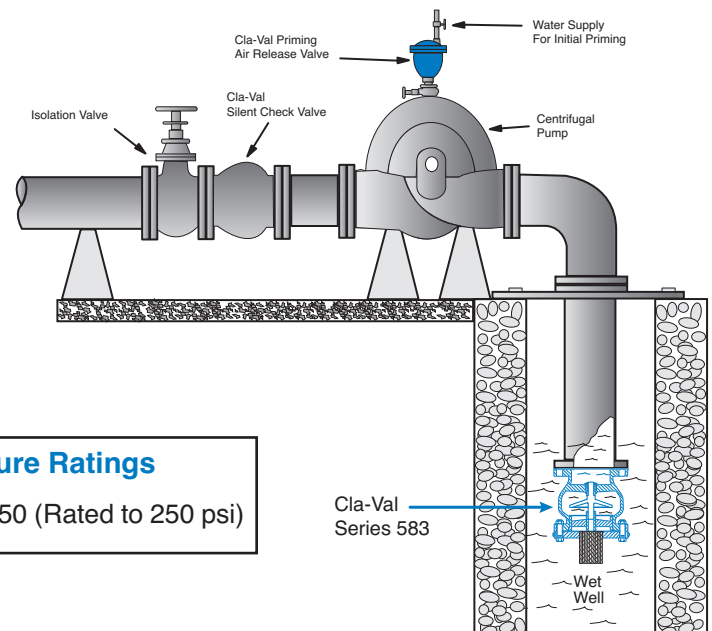
A heavy gauge 360 degree, stainless steel strainer (not plated steel) having a flow-thru area of at least three times that of the foot valve flow area shall be connected to the outside diameter of the inlet flange.

#### Materials:

Valve Body: Ductile Iron ASTM 586 GR 65-45-12  
 Seat and Plug: Bronze ASTM B584 Alloy C83600  
 Strainer Heavy Gauge 1/8": Thick Stainless Steel

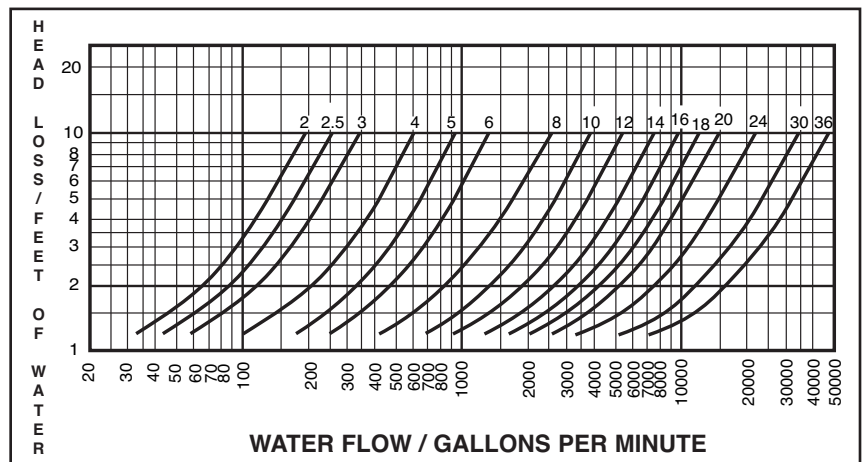
Test Certificate, Drawings, Parts List and O&M Manual Provided upon Request.

“Tite Seal” Foot Valves as provided by Cla-Val Newport Beach, CA U.S.A.

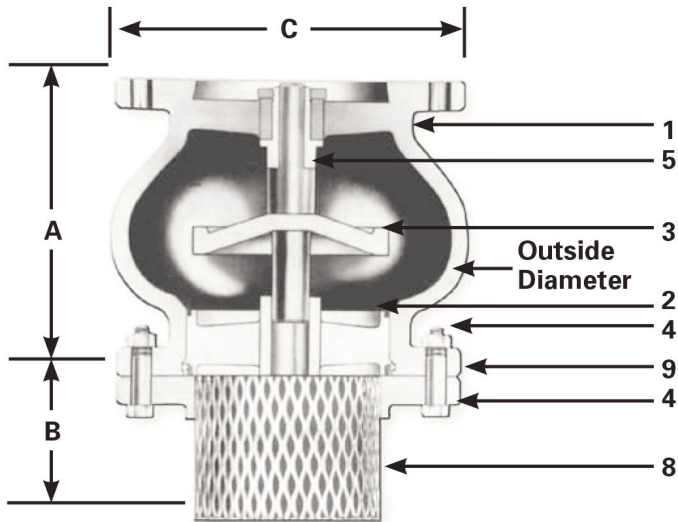


**Pressure Ratings**

- 125/150 (Rated to 250 psi)



# Series 583 "Tite Seal" Foot Valves



| 125# Class |       |                |               |               |                |              |
|------------|-------|----------------|---------------|---------------|----------------|--------------|
| Size       | Model | A              | B             | C             | O.D.           | Weight       |
| 3"<br>80   | 1403  | 6"<br>152      | 4.875"<br>124 | 7.5"<br>191   | 5.625"<br>143  | 38<br>17     |
| 4"<br>100  | 1404  | 7.25"<br>184   | 4.875"<br>124 | 9"<br>229     | 7.375"<br>187  | 51<br>23     |
| 5"<br>125  | 1405  | 8.5"<br>216    | 5"<br>127     | 10"<br>254    | 9.25"<br>235   | 72<br>33     |
| 6"<br>150  | 1406  | 9"<br>229      | 5"<br>127     | 11"<br>279    | 10"<br>254     | 95<br>43     |
| 8"<br>200  | 1408  | 10.125"<br>257 | 5.125"<br>130 | 13.5"<br>343  | 13.125"<br>333 | 146<br>66    |
| 10"<br>250 | 1410  | 12"<br>305     | 5.125"<br>130 | 16"<br>406    | 16.75"<br>425  | 218<br>99    |
| 12"<br>300 | 1412  | 14.375"<br>365 | 5"<br>127     | 19"<br>483    | 20.125"<br>511 | 335<br>152   |
| 14"<br>350 | 1414  | 15.75"<br>400  | 5.375"<br>137 | 21"<br>533    | 22.375"<br>568 | 450<br>204   |
| 16"<br>400 | 1416  | 17.625"<br>448 | 5.375"<br>137 | 23.5"<br>597  | 25.375"<br>645 | 570<br>259   |
| 18"<br>450 | 1418  | 18.75"<br>476  | 5"<br>127     | 25"<br>635    | 27.75"<br>705  | 700<br>318   |
| 20"<br>500 | 1420  | 20.625"<br>524 | 5.5"<br>140   | 27.5"<br>699  | 31.125"<br>791 | 845<br>383   |
| 24"<br>600 | 1424  | 24"<br>610     | 7"<br>178     | 32"<br>813    | 37"<br>940     | 1595<br>723  |
| 30"<br>750 | 1430  | 29.25"<br>743  | 7"<br>178     | 38.75"<br>984 | 45.25"<br>1149 | 2020<br>916  |
| 36"<br>900 | 1436  | 45"<br>1143    | 8"<br>203     | 40"<br>1016   | 53.25"<br>1353 | 4185<br>1898 |

| Item | Description  | Material                             |
|------|--------------|--------------------------------------|
| 1    | Body         | Ductile Iron ASTM 536 65-45-12       |
| 2    | Seat         | Bronze ASTM B584<br>with BUNA-N Seal |
| 3    | Plug         | Bronze ASTM B584                     |
| 4    | Bolts & Nuts | Steel ASTM A307 GR. B                |
| 5    | Bushing      | Bronze ASTM B584                     |
| 8    | Strainer     | Stainless Steel T302                 |
| 9    | Gasket       | Lexida                               |

Inch      lbs  
Millimeter      kg

Series 583 Valves meet Federal  
Mandate for Lead Content Limits

## Typical Friction Loss Chart

