



Sure Flow  
Equipment Inc.

FOOT VALVES

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2010



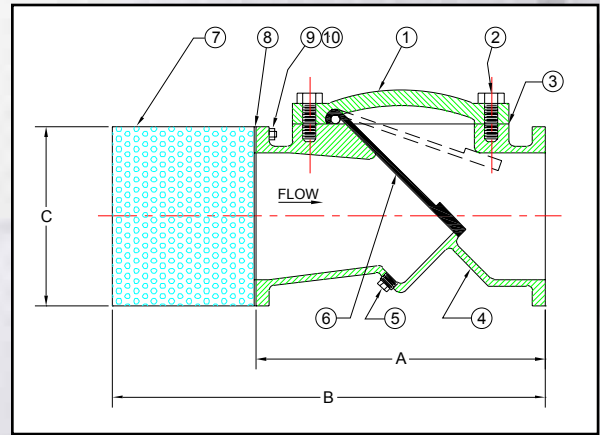
# ELASTIC SWING FOOT VALVES

## FVCEXF125 - Ductile Iron

### Class 125 Flanged End Connections



The Elastic Swing Foot Valve is standard with a ductile iron body, ASME Class 125 flanges and is suitable for municipal and industrial applications. The internal body is epoxy coated. Special coatings are available upon request. The one-piece molded disc has a steel reinforced insert to ensure closure, but while in the open position will allow 100% uninterrupted flow. The one-piece disc hinge and flapper can be repaired without removal of the valve from the line. The Elastic Swing Foot Valve is designed for continuous flow applications and is not recommended for reciprocating pumps. The Elastic Swing Foot Valve can be installed in a vertical or horizontal pipeline.



#### Notes:

- Valve comes standard with 1/8" perf. Stainless Steel Screen. Options are available.
- Horizontal Flow:** Valve must be installed with cover on top to ensure proper operation.

Manufacturer reserves the right to modify dimensions, materials, or design. Consult factory for certification.

|             |  | Construction |             |        |           |       |      |                 |              |       |      |
|-------------|--|--------------|-------------|--------|-----------|-------|------|-----------------|--------------|-------|------|
| Item        |  | 1            | 2           | 3      | 4         | 5     | 6    | 7               | 8            | 9     | 10   |
| Description |  | Cover        | Cover Bolts | Gasket | Cast Body | Drain | Disc | Screen Assembly | Plate Flange | Studs | Nuts |

| Size   |        | Dimensions (Inches) |         |        |  |       | Drain Size | Cv   | Shipping Weight (LBS) |
|--------|--------|---------------------|---------|--------|--|-------|------------|------|-----------------------|
| Inches | Prefix | A                   | B       | C      |  |       |            |      |                       |
| 2      | 0200   | 8                   | 10 1/2  | 6 1/4  |  | 3/4   | 76         | 36   |                       |
| 2 1/2  | 0250   | 8 1/2               | 11      | 7 1/4  |  | 3/4   | 124        | 46   |                       |
| 3      | 0300   | 9 1/2               | 12      | 7 3/4  |  | 3/4   | 180        | 55   |                       |
| 4      | 0400   | 11 1/2              | 14      | 9 1/4  |  | 1     | 352        | 84   |                       |
| 5      | 0500   | 13 3/4              | 16 3/4  | 10 1/4 |  | 1     | 578        | 120  |                       |
| 6      | 0600   | 15                  | 19 1/2  | 11 1/4 |  | 1 1/4 | 832        | 138  |                       |
| 8      | 0800   | 19 1/2              | 25      | 13 3/4 |  | 1 1/2 | 1520       | 300  |                       |
| 10     | 1000   | 24 1/2              | 31      | 16 1/4 |  | 2 1/2 | 2440       | 630  |                       |
| 12     | 1200   | 27 1/2              | 35      | 19 1/4 |  | 2 1/2 | 3680       | 852  |                       |
| 14     | 1400   | 31                  | 39 1/2  | 21 1/4 |  | 2 1/2 | 5280       | 1032 |                       |
| 16     | 1600   | 31 15/16            | 41 7/16 | 23 3/4 |  | 2 1/2 | 6960       | 1308 |                       |
| 18     | 1800   | 35 15/16            | 47 7/16 | 25 1/4 |  | 3     | 8960       | 1740 |                       |
| 20     | 2000   | 39 15/16            | 55 7/16 | 27 3/4 |  | 3     | 11360      | 1890 |                       |
| 24     | 2400   | 47 15/16            | 65 7/16 | 32 1/4 |  | 3     | 16800      | 3120 |                       |

### Ordering Information

Example: Include full description

Size Model  
(Prefix) Number  
**0400 FVCEXF125**

4" Ductile Iron Flanged Elastic Swing Foot Valve,  
Buna-N with Steel Disc.

| Operating Pressures and Temperatures |           |                |
|--------------------------------------|-----------|----------------|
| Type                                 | Size      | psi @ Temp WOG |
| FVCEXF125                            | 2" - 12"  | 200 @ 150 °F   |
|                                      | 14" - 24" | 150 @ 150 °F   |



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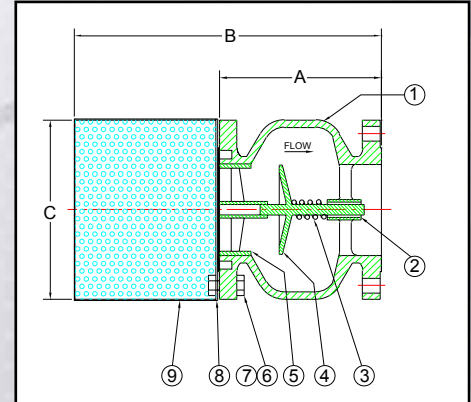
# SILENT SEAT FOOT VALVES

**FV125 - Cast Iron**  
**FV150 / FV150SS - Cast Steel / Cast Stainless Steel**

## Flanged End Connections



The Sure Flow Silent Seat Foot Valve has low head loss through its full ported body area and heavy duty stainless steel basket screening. As pressure increases, the Buna-N Quad Ring is compressed slightly and the disc makes contact with the metal portion of the valve seat, preventing any further compression of the ring. The Buna-N Quad Ring will continue to provide "drop-tight seating" during the higher pressure ranges without damage from the increased pressure loading. A foot valve should be used with basket strainers and check valves.



## Standard Features

- The seating design provides positive shut-off at all pressure ranges without additional loading on the seal.
- A Buna-N Quad Ring is standard on Foot Valves size 6" and larger.
- Valve comes standard with 1/8" perf. Stainless Steel Screen. Options are available.
- Heavy duty stainless steel screening, with flow area 3 to 4 times that of pipe area.
- Silent operation, by design of disc, stroke and linear closing characteristics.

### Notes:

Manufacturer reserves the right to modify dimensions, materials, or design. Consult factory for certification.

|             |  | Construction |         |        |      |           |       |      |              |                 |
|-------------|--|--------------|---------|--------|------|-----------|-------|------|--------------|-----------------|
| Item        |  | 1            | 2       | 3      | 4    | 5         | 6     | 7    | 8            | 9               |
| Description |  | Body         | Bushing | Spring | Plug | Quad Ring | Studs | Nuts | Plate Flange | Screen Assembly |

| Size   |        | Dimensions (Inches) |        |        |        |        |        | Cv   | Shipping Weight (LBS) |     |
|--------|--------|---------------------|--------|--------|--------|--------|--------|------|-----------------------|-----|
| Inches | Prefix | 125                 | 150    | 125    | 150    | 125    | 150    |      | 125                   | 150 |
| 2      | 0200   | 6 1/4               | 6 1/4  | 9 1/4  | 9 1/4  | 6 1/4  | 6 1/4  | 50   | 31                    | 24  |
| 2 1/2  | 0250   | 7                   | 7      | 10     | 10     | 7 1/4  | 7 1/4  | 84   | 46                    | 34  |
| 3      | 0300   | 7 1/2               | 7 5/8  | 10 5/8 | 10 3/4 | 7 3/4  | 7 3/4  | 118  | 53                    | 45  |
| 4      | 0400   | 8 1/2               | 8 1/2  | 11 1/2 | 11 1/2 | 9 1/4  | 9 1/4  | 212  | 88                    | 70  |
| 5      | 0500   | 9 1/2               | -      | 13 1/2 | -      | 10 1/8 | -      | 344  | 123                   | -   |
| 6      | 0600   | 10 1/2              | 10 1/2 | 15 1/2 | 15 1/2 | 11 1/4 | 11 1/4 | 484  | 153                   | 114 |
| 8      | 0800   | 13 1/2              | 12     | 18     | 16 1/2 | 13 3/4 | 13 3/4 | 884  | 272                   | 216 |
| 10     | 1000   | 16 1/4              | 14     | 21     | 18 3/4 | 16 1/4 | 16 1/4 | 1360 | 425                   | 340 |
| 12     | 1200   | 20 1/4              | 18     | 26     | 23 3/4 | 19 1/4 | 19 1/4 | 2060 | 716                   | 577 |
| 14     | 1400   | 22 3/4              | -      | 31 1/4 | -      | 21 1/4 | -      | 2680 | 1138                  | -   |
| 16     | 1600   | 24 3/4              | -      | 34 1/4 | -      | 23 3/4 | -      | 3440 | 1420                  | -   |
| 18     | 1800   | 22 1/2              | -      | 34     | -      | 25 1/4 | -      | 4475 | 1590                  | -   |
| 20     | 2000   | 24                  | -      | 39 1/2 | -      | 27 3/4 | -      | 5675 | 1989                  | -   |
| 24     | 2400   | 24                  | -      | 41 1/2 | -      | 32 1/4 | -      | 8450 | 4480                  | -   |

## Ordering Information

Example: Include full description

Size                      Model  
 (Prefix)                Number  
**1200                      FV125**

12" Cast Iron Silent Seat Flanged Foot Valve, Buna-N seat.

## Operating Pressures and Temperatures

| Type    | Size      | psi @ Temp WOG |
|---------|-----------|----------------|
| FV125   | 2" - 12"  | 200 @ 150 °F   |
|         | 14" - 24" | 150 @ 150 °F   |
| FV150   | 2" - 12"  | 285 @ 100 °F   |
| FV150SS | 2" - 12"  | 275 @ 100 °F   |



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## Sure Flow Equipment Inc. – Limited Warranty

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to below. **All custom products are not subject to return, credit or refund.**

If the purchaser believes a product to be defective, the purchaser shall:

- (a) Notify the manufacturer **within ten(10) days after receipt of merchandise**, state the alleged defect and request permission to return the product. Merchandise will not be accepted for return without a "Return Code" clearly marked on the outside of the package. Contact the office to obtain a return code. **Merchandise will not be accepted for return or credit later than six (6) months after invoicing.**
- (b) If permission is given, return the product with the transportation prepaid. Collect shipments will not be accepted. Goods must be returned **prepaid**.

If a shipment is received in a damaged or deficient condition, a claim must be filed with the delivering carrier and noted on the freight bill before you accept the merchandise. All other claims must be made in writing and received by Sure Flow Equipment Inc. within ten (10) days after receipt of merchandise.

If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or replace the product, F.O.B. factory, within 60 days of receipt, or issue credit for the purchase price.

Sure Flow Equipment Inc. shall not be liable for failure to deliver or delays in delivering occasioned by acts of God, war, labor difficulties, inability to obtain materials or any other causes whatsoever beyond our control.

Other than to repair, replace or credit as described above, purchaser agrees that manufacturer shall not be liable for any loss, costs, expenses, or damages of any kind arising out of the product, its use, installation or replacements, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of any of the foregoing.

**NO OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE MADE OR AUTHORIZED. NO AFFIRMATION OF ACT, PROMISE, DESCRIPTION OF PRODUCT OR USE OR SAMPLE OR MODEL SHALL CREATE ANY WARRANTY FROM MANUFACTURER, UNLESS SIGNED BY THE PRESIDENT OF MANUFACTURER.**

**CANCELLATIONS:**

Cancelled orders will be subject to a charge of at least 35%.

Cancelled custom orders will be subject to a charge of 100% of quoted price.

**SPECIAL DOCUMENTATION:** A charge will apply for non-standard, special documentation requests such as Material Test Reports (MTR's) and Certificates of Conformance (COC's).

**MINIMUM BILLING: \$100.00 NET**

**Product shipping weights are approximate and subject to variances depending on packaging methods/requirements.**



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