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Service Applications



Chemical **Plants**



Cement Manufacturing



Food Processing Facilities





Petrochemical



Sewage Treatment

Industry



Pulp and Paper

Commitment to Quality

Sure Flow Equipment Inc. features complete custom engineered complete custom engineered design and fabrication expertise within a quality focused state-of-the-art manufacturing facility. Commitment to quality, customer satisfaction and continual improvement is integral to our manufacturing processes and ensures custom engineered strainers meet your design specifications and stringent quality requirements. We've made it easy for you to place your order with confidence.

Sure Flow Equipment Inc. provides industry with Custom Engineered Fabricated Strainers to many design codes. Custom products are designed and manufactured to ASME SECTION VIII, DIV 1, Current Edition. ASME "U" Code Stamp and ASME "UM" Code Stamp are available on certain products as specified.

The Sure Flow Equipment Inc. list of Certifications includes:

9001:2008 Certificate Registration

ASME "U" Code Stamp Certificate of Authorization and **ASME "UM" Code Stamp Certificate** of Authorization (ASME Boiler and Pressure Vessel Code; ASME Section VIII, Div 1, Current Edition);

National Board Certified and authorized to apply the "NB" Mark for pressure vessels and/ or pressure vessels and/ or pressure retaining items manufactured in accordance with ASME "U" Code Stamp and ASME "UM" Code Stamp;

TSSA Certificate of Authorization (Technical Standards & Safety Authority) for the manufacture of pressure vessels in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Division 1 and CSA Standard B51, Boiler, Pressure Vessel and Pressure Piping Code.

CE Mark is available

C-TPAT Certified (Customs-Trade Partnership Against Terrorism)

Recognized by PIP (Partners In Protection) for our C-TPAT status

Member of FCI (Fluid Controls Institute) and Vice Chairman of **Pipeline Strainer Section**



The Sure Flow Check wafer check valve is a precision engineered, fully developed product at the forefront of pipe system technology. Sure Flow Check can be installed with confidence into offshore or onshore pipeline systems on product or service lines, wherever non-return protection is required.

Manufactured to meet API specifications, Sure Flow Check meets all the key criteria and in the vitally important area of comparative weights is actually lighter than other wafer check valves.

Sure Flow Check offers other operational benefits. It is light, tight, strong, compact and cost effective.

Sure Flow Check is a precision engineered dual plate wafer check valve. It has been designed specifically for its environment and its duty. Every component has been carefully chosen only after matching its performance requirements with value analysis criteria.

The Sure Flow Check Valve meets API 594 wafer check valve standard (except face to face dimensions of ASME 125 cast iron valves from 2-1/2" to 12" in which case they meet the Industry Standard).

- ▲ ASME B16.5 flange dimension
- ▲ ASME B16.47 above 24", flange dimension ▲ API 6D materials
- ▲ API 594 materials, design & face to face
- ▲ API 605 (B16.47), flange dimension
- ▲ API 6A flange dimension & face to face
- API 598 testing
- ▲ ASME B16.34 materials, wall thickness

Double Door or Dual Disc Available Wafer - Flanged - Hub - Lug



Range of Valves

Sizes: 2" to 72"

Pressures: **ASME Class 125 & 250**

ASME Class 150 to 2,500

API 2,000# to 10,000#

Temperatures: • Minus 400°F. to 1,200°F.

Seating: Resilient or Metal to Metal Materials: • Cast or Forged

Cast Iron, Cast Steel

Stainless Steel & Bronze

Types: Flanged

Flangeless (Wafer Style)

Lug (Drilled or Threaded)

Butt Weld

Hub End (for Clamp Joints)



Lighter

Wafer check valves are recognized as being substantially lighter in weight than conventional swing check valves of the same size and pressure class.

For example:

6" Class 150 swing check weighs 175 lbs.

6" Class 150 Sure Flow Check weighs only 30 lbs.

This weight advantage means that the whole pipework system is lighter, consequently the pipework support structure can also be lighter and installation costs reduced.

Stronger

Lighter weight does not mean, however, that strength has been sacrificed. In fact a **Sure Flow Check** is actually stronger than the equivalent length of pipe. Ribs around the side wall support the flange faces.

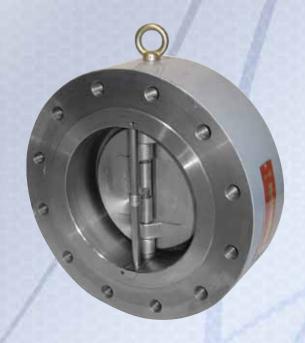
The **Sure Flow Check** Valve provides the following important features:

- · Twin plate, flat seat design for efficient sealing.
- Long leg spring(s) allows the plates to open and close without seat scrubbing.
- Valves 14" and larger are fitted with patented independent spring(s) as a standard feature.
- · Lower head loss than swing checks above 6".
- Valves with soft seats have bubble tight closure to API 6D.
- Valves with metal/hardfaced seats have low leakage in accordance with API 598.
- Simplicity of installation is a key feature.
- A wide range of seat options is available.

The strong central rib gives rigidity to the body, protects the mechanism from damage by foreign objects in the flow and also provides a broad seating area for the plate heels.

The pins which support the plates and anchor the spring are substantial in order to withstand the pressures imposed on them by the flow.











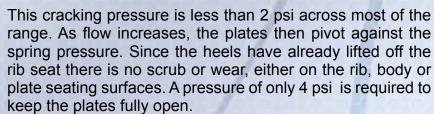
If the rib profile and size are reduced or the pins are slimmed down, the valve might not provide the safety margin in operation which is one of the main reasons for having a wafer check valve in the first place.

Compact

Sure Flow Check meets the internationally accepted API 594 standard for steel valves. A 6" Class 150 valve has a face to face measurement of just 3" compared with a swing check valve's 14" face to face dimension. A **Sure Flow Check** fits completely inside the flange bolt PCD and therefore external installation is straightforward.

Non-Slam

Sure Flow Check is a non-slam check valve because it operates on flow cessation, not flow reversal. The normal position of the plates is closed, held against the seat by the unique spring design. As flow begins, the heels of the two plates are lifted off the seat face on the central rib.



When flow stops and that pressure is removed the spring closes the plates. Flow reversal is then stopped by the closed **Sure Flow Check** valve and in fact any back pressure only serves to make the valve seal more tightly.



Tight

The long leg spring design - with a single anchor point - is a unique feature of the **Sure Flow Check** design. Coupled with floating plates for minimum seat wear and the right choice of seat to suit the service requirements, this gives the best combination to meet API 598 requirements.

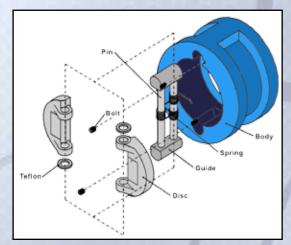
The long spring leg ensures closing tension is applied to the right part of the plate while allowing the plate heels to float on opening. For valves 14" and larger, the spring is anchored to the stop pin to ensure that both plates open and close independently. If the spring is not anchored, then the opening of one plate transfers pressure through the spring to make it more difficult for the other plate to open.



Sure Flow Retainerless Body Design

In standard or competitive designs, some manufacturers drill four holes through the body of the check valve to facilitate the installation of a hinge pin and stop pin. The valves are then sealed by four pipe plugs. These holes are potential leak paths from the body of the valve.

Sure Flow Equipment Inc. utilizes an internal stop pin and hinge pin which are machined into the cavity of the body wall. This design eliminates a potential shell or body leak path.



Lapped Body / Disc Seal

All valves meet or exceed API 598. When it comes to the **Sure Flow Check** metal to metal valve, standard with stellite B12 overlay on the disc, an additional special machining cure is performed to provide a maximum flatness and a fine, lapped finish. The **Sure Flow Check** disc provides an almost zero leakage on metal seated valves with no additional cost.



Shock Bumpers

Sure Flow Equipment Inc. has cast "Shock Bumpers" into the reverse side of each of the discs (flappers). Both sides of the disc meet or touch in the fully open position, thus preventing them from contact with the internal pins. This reduces the force on the hinges to a minimum.

In some competitive designs the disc (flapper) strikes the stop pin in the fullly open position, creating a lever force which could cause the hinge pin to break. The Shock Bumpers eliminate this potential problem.



Seat Life

Increased seat life is obtained by eliminating the problem of dragging on the seat when opening. The soft seated valve has a seat molded to the body by use of a heating temperature suitable to the materials.

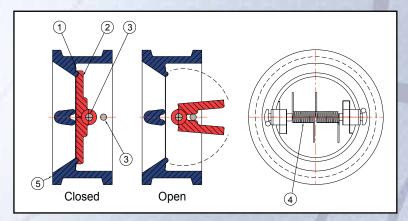




Standard Materials of Construction Body and Plate Castings

- ASTM A216 Grade WCB Carbon Steel (0.22% Carbon Max.)
- ASTM A217 Grade CA15 410 Stainless Steel
- ASTM A351 Grade CF8M 316 Stainless Steel
- BS 1400 Grade AB2
 Aluminum Bronze
 (ASME 150 and 300 Series)

Other materials are available on request.



| Construction | | | | | | | | |
|--------------|----------------|--|--|--|--|--|--|--|
| Item | Description | | | | | | | |
| 1 | Seat / Seal | | | | | | | |
| 2 | Discs | | | | | | | |
| 3 | Shaft | | | | | | | |
| 4 | Torsion Spring | | | | | | | |
| 5 | Cast Body | | | | | | | |

Spring Selection

| Springs | Maximum Operating Temperature | | | | | | | | | |
|------------------------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 316 Stainless Steel | 248°F (120°C) | | | | | | | | | |
| Inconel 600 | 600°F (315°C) | | | | | | | | | |
| Inconel X 750 | 1000°F (537°C) | | | | | | | | | |

For temperatures up to 600°F (315°C), Inconel springs will be furnished as standard on all valves that are ordered with metal and Viton seats.

For service conditions above 600°F (315°C), Inconel X springs should be specified.

Refer to ordering information for Seal selection.

Ordering Information / Figure Number



| Pressure Classification | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|------|------|--|--|--|
| Code | 150 | 300 | 600 | 900 | 1500 | 2500 | | | |
| ASME | 150 | 300 | 600 | 900 | 1500 | 2500 | | | |

| Spring Material | | | | | | | |
|-----------------|---------------------|---------------|--|--|--|--|--|
| Code | Material | Max. Temp. °F | | | | | |
| I | 316 Stainless Steel | 248 | | | | | |
| Х | Inconel 600 | 600 | | | | | |
| S | Inconnel X 750 | 1000 | | | | | |

| Body and Flapper Materials | | | | | | | | | |
|----------------------------|-----------------|----------------------|--|--|--|--|--|--|--|
| Code | Material | Specification | | | | | | | |
| С | Carbon Steel | ASTM A216 Grade WCB | | | | | | | |
| S | Stainless Steel | ASTM A351 Grade CF8M | | | | | | | |

| Seat Material | | | | | | | | | |
|---------------|----------|--|--|--|--|--|--|--|--|
| Code | Material | | | | | | | | |
| М | Metal | | | | | | | | |
| V | Viton | | | | | | | | |

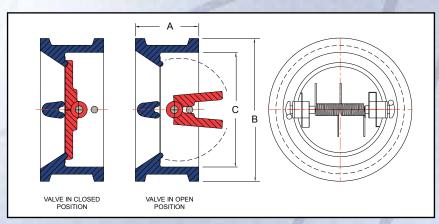
| End Connections | | | | | | | | | |
|-----------------|------------------------|--|--|--|--|--|--|--|--|
| Code | Connection | | | | | | | | |
| R | Serrated Gasket Finish | | | | | | | | |
| L | Lug 2" - 10" | | | | | | | | |
| F | Flanged 12" - 24" | | | | | | | | |



ASME Class 150 to ASME Class 600 Wafer Style Body

| | Cv Values | | | | | | | | | | | | | | | | | | | | | | |
|------|-----------|--------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Size | 2" | 2 1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" | 26" | 28" | 30" | 32" | 36" | 40" | 42" | 48" | 54" |
| Cv | 48 | 100 | 181 | 291 | 494 | 705 | 1,795 | 2,563 | 4,259 | 5,436 | 7,355 | 9,537 | 12,004 | 17,804 | 30,000 | 33,600 | 38,400 | 48,000 | 55,200 | 84,000 | 96,000 | 117,600 | 141,300 |





| | | | 7000 | |
|--------|------------|---------------|------------|-----------------|
| ASM | IE Class 1 | 150 Dime | ensions (I | nches) |
| Size | A | В | С | Weight (LBS) |
| 2" | 2 3/8 | 4 1/8 | 2 3/8 | 6 |
| 2 1/2" | 2 3/8 | 4 7/8 | 2 5/16 | 8 |
| 3" | 2 7/8 | 5 3/8 | 3 3/4 | 10 |
| 4" | 2 7/8 | 6 7/8 | 4 1/2 | 17 |
| 5" | 3 1/4 | 7 11/16 | 5 11/16 | 23 |
| 6" | 3 7/8 | 8 3/4 | 6 5/8 | 33 |
| 8" | 5 | 11 | 8 5/8 | 58 |
| 10" | 5 3/4 | 13 3/8 | 10 3/4 | 109 |
| 12" | 7 1/8 | 16 1/8 | 12 5/8 | 180 |
| 14" | 7 1/4 | 17 3/4 | 13 11/16 | 206 |
| 16" | 7 1/2 | 20 1/4 | 16 11/16 | 263 |
| 18" | 8 | 21 5/8 | 18 | 334 |
| 20" | 8 5/8 | 23 7/8 20 1/4 | | 430 |
| 24" | 8 3/4 | 28 1/4 | 23 3/4 | 582 |
| 26" | 11 1/4 | 30 1/2 | 24 3/4 | 1,151 |
| 28" | 12 5/8 | 32 3/4 | 27 5/8 | 1,293 |
| 30" | 12 | 34 13/16 | 30 1/8 | 1,356 |
| 32" | 14 | 37 | 30 11/16 | 1,746 |
| 36" | 14 1/2 | 41 1/4 | 34 | 2,125 |
| 40" | 17 | 45 3/4 | 38 13/16 | 3,011 |
| 42" | 17 | 48 | 41 13/16 | 3,795 |
| 48" | 20 5/8 | 54 1/2 | 47 | 5,566 |
| 54" | 21 1/4 | 60 7/8 | 50 1/2 | 6,831 |

| ASME Class 300 Dimensions (Inches) | | | | | | | | | | |
|------------------------------------|--------|--------|----------|-----------------|--|--|--|--|--|--|
| Size | А | В | С | Weight (LBS) | | | | | | |
| 2" | 2 3/8 | 4 3/8 | 2 3/8 | 6 | | | | | | |
| 2 1/2" | 2 3/8 | 5 1/8 | 2 5/16 | 8 | | | | | | |
| 3" | 2 7/8 | 5 7/8 | 3 3/4 | 13 | | | | | | |
| 4" | 2 7/8 | 7 1/8 | 4 1/2 | 20 | | | | | | |
| 6" | 3 7/8 | 9 7/8 | 6 5/8 | 38 | | | | | | |
| 8" | 5 | 12 1/8 | 8 5/8 | 71 | | | | | | |
| 10" | 5 3/4 | 14 1/4 | 10 3/4 | 124 | | | | | | |
| 12" | 7 1/8 | 16 5/8 | 12 5/8 | 195 | | | | | | |
| 14" | 8 3/4 | 19 1/8 | 13 3/4 | 339 | | | | | | |
| 16" | 9 1/8 | 21 1/4 | 16 11/16 | 428 | | | | | | |
| 18" | 10 3/8 | 23 1/2 | 18 | 595 | | | | | | |
| 20" | 11 1/2 | 25 1/2 | 20 1/4 | 774 | | | | | | |
| 24" | 12 1/2 | 30 1/2 | 23 3/4 | 1,207 | | | | | | |
| 26" | 14 | 32 7/8 | 24 3/4 | 1,569 | | | | | | |
| 28" | 15 | 35 3/8 | 27 5/8 | 1,946 | | | | | | |
| 30" | 14 1/2 | 37 1/2 | 30 1/8 | 2,113 | | | | | | |
| 32" | 16 | 39 5/8 | 30 13/16 | 2,598 | | | | | | |
| | | | | | | | | | | |

| ASN | /IE Class 6 | 300 Dime | ensions (Ir | nches) | | | | | | | |
|------|-------------|----------|-------------|-----------------|--|--|--|--|--|--|--|
| Size | А | В | С | Weight (LBS) | | | | | | | |
| 2" | 2 3/8 | 4 3/8 | 2 3/8 | 6 | | | | | | | |
| 3" | 2 7/8 | 5 7/8 | 3 3/4 | 13 | | | | | | | |
| 4" | 3 1/8 | 7 5/8 | 4 1/2 | 25 | | | | | | | |
| 6" | 5 3/8 | 10 1/2 | 6 5/8 | 68 | | | | | | | |
| 8" | 6 1/2 | 12 5/8 | 8 5/8 | 127 | | | | | | | |
| 10" | 8 3/8 | 15 3/4 | 10 3/4 | 261 | | | | | | | |
| 12" | 9 | 18 | 12 5/8 | 324 | | | | | | | |
| 14" | 10 3/4 | 19 3/8 | 13 3/4 | 359 | | | | | | | |
| 16" | 12 | 22 1/4 | 16 11/16 | 683 | | | | | | | |
| 18" | 14 1/4 | 24 1/8 | 18 | 794 | | | | | | | |
| 20" | 14 1/2 | 26 7/8 | 20 1/4 | 1,159 | | | | | | | |
| 24" | 17 1/4 | 31 1/8 | 23 3/4 | 1,842 | | | | | | | |
| 26" | 18 | 34 1/8 | 24 3/4 | 2,474 | | | | | | | |
| 28" | 19 | 36 | 27 5/8 | 2,715 | | | | | | | |
| 30" | 19 7/8 | 38 1/4 | 30 1/8 | 3,211 | | | | | | | |
| 32" | 21 | 40 1/4 | 30 13/16 | 3,747 | | | | | | | |
| | | | 100 | | | | | | | | |

Notes.

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

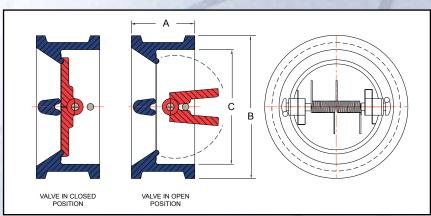




ASME Class 900 to ASME Class 2500 Wafer Style Body

| | | | | | | | | Cv Values | ; | | | | | | |
|-----|---|----|--------|-----|-----|-----|-----|-----------|-------|-------|-------|-------|-------|--------|--------|
| Siz | е | 2" | 2 1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" |
| Cv | , | 48 | 100 | 181 | 291 | 494 | 705 | 1,795 | 2,563 | 4,259 | 5,436 | 7,355 | 9,537 | 12,004 | 17,804 |





| ASI | ASME Class 900 Dimensions (Inches) | | | | | | |
|------|------------------------------------|--------|-------------|-----------------|--|--|--|
| Size | А | В | С | Weight (LBS) | | | |
| 2" | 2 3/4 | 5 5/8 | 2 3/8 | 16 | | | |
| 3" | 3 1/4 | 6 5/8 | 3 3/4 | 19 | | | |
| 4" | 4 | 8 1/8 | 4 1/2 | 38 | | | |
| 6" | 6 1/4 | 11 3/8 | 6 5/8 | 101 | | | |
| 8" | 8 1/8 | 14 1/8 | 8 5/8 | 213 | | | |
| 10" | 9 1/2 | 17 1/8 | 10 3/4 | 433 | | | |
| 12" | 11 1/2 | 19 5/8 | 12 5/8 | 640 | | | |
| 14" | 14 | 20 1/2 | 13 3/4 | 855 | | | |
| 16" | 15 1/8 | 22 5/8 | 16 11/16 | 1,123 | | | |
| 18" | 17 3/4 | 25 1/8 | 18 | 1,624 | | | |
| 20" | 17 3/4 | 27 1/2 | 20 1/4 | 1,951 | | | |
| 24" | 19 1/2 | 33 | 23 3/4 | 3,079 | | | |

| ASM | ASME Class 1500 Dimensions (Inches) | | | | | |
|------|-------------------------------------|--------|-------------|-----------------|--|--|
| Size | А | В | С | Weight (LBS) | | |
| 2" | 2 3/4 | 5 5/8 | 2 3/8 | 16 | | |
| 3" | 3 1/4 | 6 7/8 | 3 3/4 | 21 | | |
| 4" | 4 | 8 1/4 | 4 1/2 | 40 | | |
| 6" | 6 1/4 | 11 1/8 | 6 5/8 | 101 | | |
| 8" | 8 1/8 | 13 7/8 | 8 5/8 | 213 | | |
| 10" | 9 3/4 | 17 1/8 | 10 3/4 | 463 | | |
| 12" | 12 | 20 1/2 | 12 5/8 | 678 | | |
| 14" | 14 | 22 3/4 | 13 3/4 | 1,045 | | |
| 16" | 15 1/8 | 25 1/4 | 16 11/16 | 1,240 | | |
| 18" | 18 7/16 | 27 3/4 | 18 | 2,102 | | |
| 20" | 21 | 29 3/4 | 20 1/4 | 4,643 | | |
| - / | | | | | | |

| ASM | ASME Class 2500 Dimensions (Inches) | | | | | |
|------|-------------------------------------|--------|--------|-----------------|--|--|
| Size | А | В | С | Weight (LBS) | | |
| 2" | 2 3/4 | 5 3/4 | 2 3/8 | 30 | | |
| 3" | 3 3/8 | 7 3/4 | 3 3/4 | 46 | | |
| 4" | 4 1/8 | 9 1/4 | 4 1/2 | 92 | | |
| 6" | 6 1/4 | 12 1/2 | 6 5/8 | 190 | | |
| 8" | 8 1/8 | 15 1/4 | 8 5/8 | 285 | | |
| 10" | 10 | 18 3/4 | 10 3/4 | 555 | | |
| 12" | 12 | 21 5/8 | 12 5/8 | 814 | | |

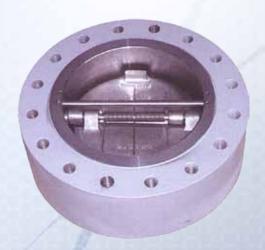
Notes:

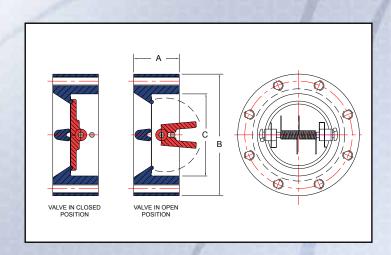
Manufacturer reserves the right to modify dimensions, materials, or design. Consult factory for certification.



ASME Class 150 and ASME Class 300 Lug Style Body

| | Cv Values | | | | | |
|------|-----------|-----|-----|-----|-------|-------|
| Size | 2" | 3" | 4" | 6" | 8" | 10" |
| Cv | 48 | 181 | 291 | 705 | 1,795 | 2,563 |





| P | ASME Class 150 Lug Dimensions (Inches) | | | | | |
|------|--|--------|--------|-----------------|--|--|
| Size | Α | В | С | Weight (LBS) | | |
| 2" | 2 3/8 | 6 | 2 3/8 | 18 | | |
| 3" | 2 7/8 | 7 1/2 | 3 3/4 | 30 | | |
| 4" | 2 7/8 | 9 | 4 1/2 | 48 | | |
| 6" | 3 7/8 | 11 | 6 5/8 | 81 | | |
| 8" | 5 | 13 1/2 | 8 5/8 | 159 | | |
| 10" | 5 3/4 | 16 | 10 3/4 | 235 | | |

| | ASME Class 300 Lug Dimensions (Inches) | | | | | |
|------|--|--------|--------|-----------------|--|--|
| Size | Α | В | С | Weight (LBS) | | |
| 2" | 2 3/8 | 6 1/2 | 2 3/8 | 20 | | |
| 3" | 2 7/8 | 8 1/4 | 3 3/4 | 35 | | |
| 4" | 2 7/8 | 10 | 4 1/2 | 58 | | |
| 6" | 3 7/8 | 12 1/2 | 6 5/8 | 114 | | |
| 8" | 5 | 15 | 8 5/8 | 197 | | |
| 10" | 5 3/4 | 17 1/2 | 10 3/4 | 291 | | |

Notes:

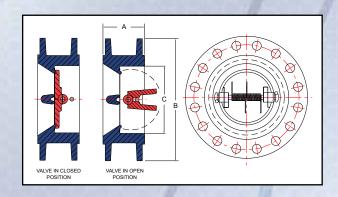
Manufacturer reserves the right to modify dimensions, materials, or design. Consult factory for certification.



ASME Class 150 to ASME Class 600 Flange Style Body

| | | | | Cv Values | | | | |
|------|--------|--------|--------|-----------|--------|---------|---------|---------|
| Size | 12" | 14" | 16" | 18" | 20" | 24" | 26" | 28" |
| Cv | 4,259 | 5,436 | 7,355 | 9,537 | 12,004 | 17,804 | 30,000 | 33,600 |
| | | | | | | 100 | | |
| Size | 30" | 32" | 36" | 40" | 42" | 48" | 54" | |
| Cv | 38,400 | 48,000 | 55,200 | 84,000 | 96,000 | 117,600 | 141,300 | V ABOUT |





| AS | ASME Class 150 Dimensions (Inches) | | | | | | |
|-----|------------------------------------|--------|--------|-------------|--------------|--|--|
| Siz | е | Α | В | С | Weight (LBS) | | |
| 12' | , | 7 1/8 | 19 | 12 5/8 | 230 | | |
| 14' | , | 7 1/4 | 21 | 13 11/16 | 283 | | |
| 16 | , | 7 1/2 | 23 1/2 | 16 11/16 | 364 | | |
| 18 | , | 8 | 25 | 18 | 438 | | |
| 20 | , | 8 5/8 | 27 1/2 | 20 1/4 | 569 | | |
| 24 | , | 8 3/4 | 32 | 23 3/4 | 784 | | |
| 26 | , | 11 1/4 | 34 1/4 | 24 3/4 | 1,316 | | |
| 28 | , | 12 5/8 | 36 1/2 | 27 5/8 | 1,472 | | |
| 30 | , | 12 | 38 3/4 | 30 1/8 | 1,576 | | |
| 32 | , | 14 | 41 3/4 | 30 11/16 | 2,135 | | |
| 36 | , | 14 1/2 | 46 | 34 | 2,682 | | |
| 40 | , | 17 | 50 3/4 | 38 13/16 | 3,600 | | |
| 42 | , | 17 | 53 | 41 13/16 | 4,177 | | |
| 48 | , | 20 5/8 | 59 1/2 | 47 | 6,386 | | |
| 54 | , | 21 1/4 | 66 5/8 | 50 1/2 | 8,164 | | |

| Hemz class see Bimenelene (mense) | | | | | |
|-----------------------------------|--------|--------|-------------|-----------------|--|
| Size | Α | В | C | Weight (LBS) | |
| 12" | 7 1/8 | 20 1/2 | 12 5/8 | 261 | |
| 14" | 8 3/4 | 23 | 13 3/4 | 405 | |
| 16" | 9 1/8 | 25 1/2 | 16 11/16 | 519 | |
| 18" | 10 3/8 | 28 | 18 | 711 | |
| 20" | 11 1/2 | 30 1/2 | 20 1/4 | 936 | |
| 24" | 12 1/2 | 36 | 23 3/4 | 1,417 | |
| 26" | 14 | 38 1/4 | 24 3/4 | 1,796 | |
| 28" | 15 | 40 3/4 | 27 5/8 | 2,181 | |
| 30" | 14 1/2 | 43 | 30 1/8 | 2,343 | |
| 32" | 16 | 45 1/4 | 30 13/16 | 2,861 | |

ASME Class 300 Dimensions (Inches

| | ASME | Class 60 | 00 Dime | nsions (Ir | iches) |
|----|------|----------|---------|-------------|-----------------|
| | Size | Α | В | С | Weight (LBS) |
| | 12" | 9 | 22 | 12 5/8 | 415 |
| | 14" | 10 3/4 | 23 3/4 | 13 3/4 | 577 |
| Ģ. | 16" | 12 | 27 | 16 11/16 | 835 |
| | 18" | 14 1/4 | 29 1/4 | 18 | 1,164 |
| | 20" | 14 1/2 | 32 | 20 1/4 | 1,417 |
| | 24" | 17 1/4 | 37 | 23 3/4 | 2,249 |
| | 26" | 18 | 40 | 24 3/4 | 2,745 |
| | 28" | 19 | 42 1/4 | 27 5/8 | 3,236 |
| | 30" | 19 7/8 | 44 1/2 | 30 1/8 | 3,752 |
| | 32" | 21 | 47 | 30 13/16 | 4,420 |

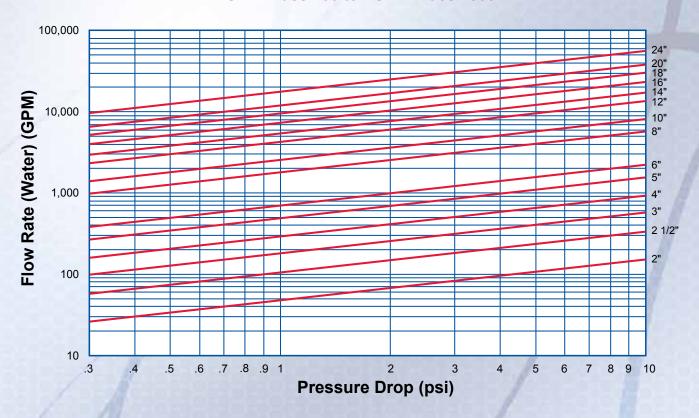
Notes

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



Flow Rate Vs. Pressure Drop - FE Series Check Valves

ASME Class 150 to ASME Class 2500



Notes:

- The above chart is for theoretical calculations ONLY. Please contact our office with your exact specifications and you will be provided with factory calculations.
- The Curves shown above relate to valves provided with standard rated springs.
- Stronger springs may be required to ensure faster reaction if very large changes in velocity occur.
- We will provide valves to match your performance requirements.
- It should be borne in mind that a media (liquid) velocity in the pipeline of 10 ft per second is considered to be desirable for normal applications.

Installation Data

The **Sure Flow Check** valve is designed so that it is centralized between the flanges when the stud bolts are in position. The outside diameter of the body is equal to the bolt circle PCD minus the diameter of one bolt.

It is suitable for use in a variety of orientations. In horizontal lines the valve is installed with the pins vertical (i.e. with the pin retainers at the top). For sizes 6" and upwards the valve is tapped to take an eyebolt for lifting.

Arrows cast into the body indicate the normal direction of flow.

Before initial installation it is advisable to open the plates by hand since, if the valve is held in store for a period of time, the corrosion inhibitor may have caused the plates to stick to the body and line pressure may not be sufficient to break this seal.

If the bottom half of the studs are installed first they will serve as a platform to support the valve while the gaskets and other studs are inserted. Similarly, if the valve is to be removed from the line, the top half of the studs should be removed and the bottom half slackened.



Seat Options

The right seat is critical for the correct functioning of the valve in its designated service. **Sure Flow Check** offers a wide range of seat options.

Metal to metal seats can be either the body/plate parent material or a hardfacing of other material, overlaid by deposition.

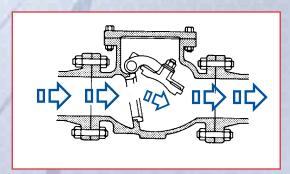
For soft seated valves standard elastomers are vulcanized for maximum security.

On high pressure class valves the seat is set into a groove for further safety.

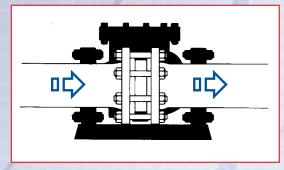


Simple Installation

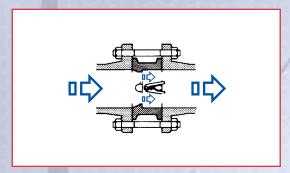
Simplicity and speed of installation are of paramount importance for the process or pipeline engineer. **Sure Flow Check** is simply installed between the flanges. A raised face (serrated or smooth finish), a RTJ, profile hub and butt weld ends can be provided. Only one set of studs is required as **Sure Flow Check** fits inside the bolt circle PCD. If the valve needs to be taken out of the line, only half the bolts need to be removed, reducing the amount of work to be done and providing a retained link for the two pipe flanges.



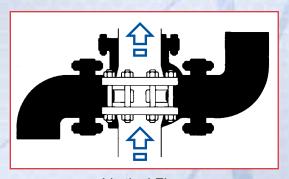
Conventional swing check valve



Horizontal Flow - rib vertical



Sure Flow Check dual plate wafer check valve



Vertical Flow



Quality From Start To Finish

Quality Counts

Our quality starts with design and engineering, continues through development and testing, to manufacture and certification. Our technical and sales support services are vital ingredients in maintaining the overall quality of our products. The stringent quality control, inspection and testing procedures we apply are contained within the Documented Quality System.

Quality is manufactured not inspected

Our operatives are responsible for the quality and accuracy of their work and for ensuring that it is in accordance with the appropriate working drawings and specifications. Our Q.A. Department checks initial compliance throughout all aspects of manufacture from the receipt of materials to the end of the machining process.

Our Quality Assurance Department remains the ultimate authority in guaranteeing that materials, engineering and methods are in full accordance with agreed specifications and established procedures. Through a combination of these procedures we can confidently fulfil all requirements for material conformity and traceability and for full certification.

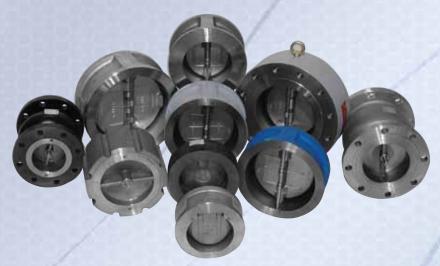
When you specify **Sure Flow Check** valves, you can be confident that not only are you making an investment in quality and reliability, but equally important, you know the service starts with the sale.



Manufactured to API 594 and tested to API 598



All requirements for material conformity, traceability and certification met in full



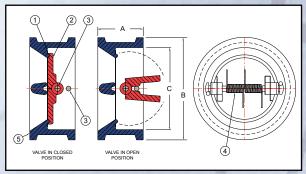


Retainerless Wafer Double Door Check Valves

CD125IS - Cast Iron

ASME Class 125 Wafer Design

The Dual Plate Check Valve features exceptional flow characteristics. The compact wafer style body is a one piece, retainerless model which eliminates potential leak paths. The dual discs are designed to provide maximum strength with minimum opening time. The full contact seats maintain positive shut-off at minimum



working pressure. Torsion springs assist in positive shut-off and disc closure, preventing backflow. The two heavy duty, corrosion resistant shafts act as stops to prevent over-travel of the discs. Thrust washers reduce friction and wear of the valve disc hinges.

Notes:

 It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.

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

| | Construction | | | | | |
|------|----------------|-------------------------------|--|--|--|--|
| Item | Description | Material | | | | |
| 1 | Seat / Seal | Buna-N | | | | |
| 2 | Discs | A351 Gr. CF8M Stainless Steel | | | | |
| 3 | Shaft | A351 Gr. CF8M Stainless Steel | | | | |
| 4 | Torsion Spring | A351 Gr. CF8M Stainless Steel | | | | |
| 5 | Cast Body | A126 Class B Cast Iron | | | | |

| Dimensions (Inches) | | | | | | | |
|---------------------|--------|--------|----------|----------|---------|--------------|--|
| 5 | Size | A | В | С | Cv | Shipping | |
| Inches | Prefix | ζ. | D | J | CV | Weight (LBS) | |
| 2 | 0200 | 2 1/8 | 4 1/8 | 2 3/8 | 48 | 6 | |
| 2 1/2 | 0250 | 2 1/8 | 4 7/8 | 2 5/16 | 100 | 7 | |
| 3 | 0300 | 2 1/4 | 5 3/8 | 3 3/4 | 181 | 10 | |
| 4 | 0400 | 2 1/2 | 6 3/8 | 4 1/2 | 291 | 14 | |
| 5 | 0500 | 2 3/4 | 7 11/16 | 5 11/16 | 494 | 19 | |
| 6 | 0600 | 3 | 8 3/4 | 6 5/8 | 705 | 25 | |
| 8 | 0800 | 3 3/4 | 11 | 8 5/8 | 1,795 | 42 | |
| 10 | 1000 | 4 1/4 | 13 3/8 | 10 3/4 | 2,563 | 72 | |
| 12 | 1200 | 5 5/8 | 16 | 12 5/8 | 4,259 | 116 | |
| 14 | 1400 | 7 1/4 | 16 5/8 | 13 11/16 | 5,436 | 182 | |
| 16 | 1600 | 7 1/2 | 20 1/8 | 16 11/16 | 7,355 | 243 | |
| 18 | 1800 | 8 | 21 5/8 | 18 | 9,537 | 334 | |
| 20 | 2000 | 8 3/8 | 23 7/8 | 20 1/4 | 12,004 | 430 | |
| 24 | 2400 | 8 3/4 | 28 1/4 | 23 3/4 | 17,804 | 582 | |
| 26 | 2600 | 11 1/4 | 30 1/2 | 24 3/4 | 30,000 | 1,128 | |
| 28 | 2800 | 12 5/8 | 32 3/4 | 27 5/8 | 33,600 | 1,293 | |
| 30 | 3000 | 12 | 34 13/16 | 30 1/8 | 38,400 | 1,356 | |
| 32 | 3200 | 14 1/2 | 37 | 30 11/16 | 48,000 | 1,746 | |
| 36 | 3600 | 14 1/2 | 41 1/4 | 34 | 55,200 | 2,125 | |
| 40 | 4000 | 16 | 45 3/4 | 38 13/16 | 84,000 | 3,011 | |
| 42 | 4200 | 17 | 48 | 41 13/16 | 96,000 | 3,795 | |
| 48 | 4800 | 20 5/8 | 54 1/2 | 47 | 117,600 | 5,566 | |
| 54 | 5400 | 21 1/4 | 60 7/8 | 50 1/2 | 141,300 | 6,831 | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CD125IS

4" Wafer Check Valve, Cast Iron, 316 Stainless Steel Discs, Buna-N Seat

| Operating Pressures and Temperatures | | | | | |
|--------------------------------------|-----------|-------------------|--|--|--|
| Туре | Size | psi @ Temp WOG | | | |
| 0040510 | 2" - 12" | 200 @ 150 °F | | | |
| CD125IS | 14" - 54" | 150 @ 150 °F | | | |



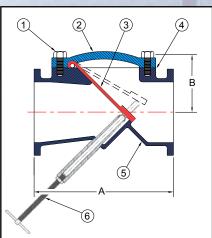
Elastic Swing Check Valves

CXF125IV - Ductile Iron

ASME Class 125 Flanged End Connections



The Elastic Swing Check Valve is suitable for municipal and industrial applications. It is standard with a ductile iron body with ASME Class 125 flanges. The internal body is epoxy coated. The one-piece molded disc has a steel reinforced insert to ensure closure. Plus, while in the open position, it will allow 100% uninterrupted flow. The one-piece disc



hinge and disc can be repaired without removal of the valve from the line.

Optional: A Backflow Rod can be installed and used for draining or pump priming. This option is a safe and effective way to manually activate the valve.

| ٨ | lo | te | 2.5 |
|---|----|----|-----|
| | | | |

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

| | Construction | | | | | |
|------|----------------------------|--|--|--|--|--|
| Item | Description | Material | | | | |
| 1 | Cover Bolts | Alloy Steel SAE Grade 5 | | | | |
| 2 | Cover | A536 60-45-12 Ductile Iron | | | | |
| 3 | Disc | Buna-N with Steel & Fabric Reinforcement | | | | |
| 4 | Gasket | Lexide NK-511 (non-asbestos) | | | | |
| 5 | Cast Body | A536 60-45-12 Ductile Iron | | | | |
| 6 | Backflow Rod (Optional) | A582, B505 Brass | | | | |

| Dimensions (Inches) | | | | | | | | |
|---------------------|--------|----------|--------|------------|--------|--------------|--|--|
| | ze | А | В | Drain Size | Cv | Shipping | | |
| Inches | Prefix | | | | | Weight (LBS) | | |
| 2 | 0200 | 8 | 3 3/8 | 3/4 | 95 | 30 | | |
| 2 1/2 | 0250 | 8 1/2 | 3 3/8 | 3/4 | 155 | 38 | | |
| 3 | 0300 | 9 1/2 | 3 7/8 | 3/4 | 225 | 46 | | |
| 4 | 0400 | 11 1/2 | 4 5/8 | 1 | 440 | 70 | | |
| 5 | 0500 | 13 3/4 | 5 1/8 | 1 | 722 | 105 | | |
| 6 | 0600 | 15 | 5 7/8 | 1 1/4 | 1,040 | 115 | | |
| 8 | 0800 | 19 1/2 | 7 5/8 | 1 1/2 | 1,900 | 250 | | |
| 10 | 1000 | 24 1/2 | 9 7/8 | 2 1/2 | 3,050 | 525 | | |
| 12 | 1200 | 27 1/2 | 11 1/2 | 2 1/2 | 4,600 | 710 | | |
| 14 | 1400 | 31 | 13 1/2 | 2 1/2 | 6,600 | 860 | | |
| 16 | 1600 | 31 15/16 | 15 1/4 | 2 1/2 | 8,700 | 1,090 | | |
| 18 | 1800 | 35 15/16 | 17 1/4 | 3 | 11,200 | 1,450 | | |
| 20 | 2000 | 39 15/16 | 19 1/4 | 3 | 14,200 | 1,720 | | |
| 24 | 2400 | 47 15/16 | 22 3/4 | 3 | 21,000 | 2,600 | | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CXF125IV

4" Flanged Elastic Swing Check Valve, Ductile Iron, Buna-N Disc with Steel and Fabric Reinforcement.

| Operating Pressures and Temperatures | | | | | | |
|--------------------------------------|-----------|-------------------|--|--|--|--|
| Туре | Size | psi @ Temp WOG | | | | |
| CXF125IV | 2" - 12" | 200 @ 150 °F | | | | |
| CAF125IV | 14" - 24" | 150 @ 150 °F | | | | |



Horizontal Swing Check Valves

CSF125IB - Cast Iron

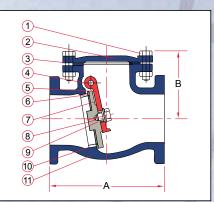
ASME Class 125 Flanged End Connections



The Sure Flow Horizontal Swing Check Valve has a cast iron body, cover and disc. The valve is provided with a bronze seat ring and bronze disc ring. Bronze, being softer than a cast iron facing, offers a more positive sealing effect than competitors' standard iron

facing. Furthermore, a bronze seat ring and bronze disc ring are used to ensure greater

versatility and to withstand greater temperature and fluid variations.



| | Construction | | | | | | |
|------|---------------|-----------------|--|--|--|--|--|
| Item | Description | Material | | | | | |
| 1 | Cover Bolting | Steel | | | | | |
| 2 | Cover | A126 Class B | | | | | |
| 3 | Gasket | Graphite | | | | | |
| 4 | Hanger Pin | Stainless Steel | | | | | |
| 5 | Hanger | A126 Class B | | | | | |
| 6 | Disc Ring | B62 | | | | | |
| 7 | Disc | A126 Class B | | | | | |
| 8 | Disc Washer | Steel | | | | | |
| 9 | Disc Bolt | Steel | | | | | |
| 10 | Seat Ring | B62 | | | | | |
| 11 | Cast Body | A126 Class B | | | | | |

Notes:

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

| Dimensions (Inches) | | | | | | |
|---------------------|--------|--------|--------|--------------|--|--|
| Size | | Α | D | Shipping | | |
| Inches | Prefix | A | В | Weight (LBS) | | |
| 2 | 0200 | 8 | 5 1/8 | 32 | | |
| 2 1/2 | 0250 | 8 1/2 | 5 5/8 | 44 | | |
| 3 | 0300 | 9 1/2 | 6 1/8 | 57 | | |
| 4 | 0400 | 11 1/2 | 7 1/8 | 96 | | |
| 5 | 0500 | 13 | 9 | 134 | | |
| 6 | 0600 | 14 | 9 1/4 | 165 | | |
| 8 | 0800 | 19 1/2 | 10 7/8 | 299 | | |
| 10 | 1000 | 24 1/2 | 12 1/4 | 572 | | |
| 12 | 1200 | 27 1/2 | 13 3/4 | 858 | | |
| 14 | 1400 | 31 | 18 1/4 | 1032 | | |
| 16 | 1600 | 30 1/4 | 19 1/2 | 1326 | | |
| 18 | 1800 | 33 | 21 | 1695 | | |
| 20 | 2000 | 36 | 23 1/2 | 3289 | | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CSF125IB

4" Flanged Horizontal Swing Check Valve, Cast Iron, Bronze Seat Ring

| Operating Pressures and Temperatures | | | | | | |
|--------------------------------------|-----------|-------------------|--|--|--|--|
| Туре | Size | psi @ Temp WOG | | | | |
| CSF125IB | 2" - 12" | 200 @ 150 °F | | | | |
| COFTZOIB | 14" - 20" | 150 @ 150 °F | | | | |

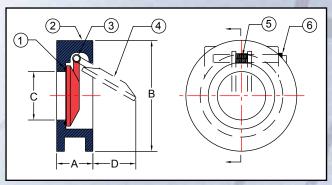


Wafer Swing Check Valves

CSW125IS - Cast Iron

ASME Class 125 Wafer Swing Disc Design

The Wafer Swing Check
Valve incorporates several
features distinguishing it
from conventional check
valves for silent, fast, nonslam operation. The most
prominent of these is
the accurately machined
disc and its special
quick closing action.
Spring loading of the
316 Stainless Steel disc



assures instantaneous closure to reversing flow, preventing build-up of momentum, which is the cause of damaging water hammer. The hinge pin design assures free movement of the disc and eliminates seizure under extreme conditions. A Buna-N soft seat insert on the CSW125IS is standard for positive sealing of hard-to-hold solvents and

fluids. A lifting eye hook is standard on

8" to 16" valves.

Notes:

 It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.

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

| | Construction | | | | |
|------|----------------|---------------------|--|--|--|
| Item | Description | Material | | | |
| 1 | O-Ring Seal | Buna-N | | | |
| 2 | Cast Body | ASTM A126 Class B | | | |
| 3 | Shaft | 316 Stainless Steel | | | |
| 4 | Disc | 316 Stainless Steel | | | |
| 5 | Torsion Spring | 316 Stainless Steel | | | |
| 6 | Plug | ASTM A126 Class B | | | |

| Dimensions (Inches) | | | | | | | |
|---------------------|--------------|-------|--------|--------|--------|-------|--------------------------|
| Si | ze Prefix | А | В | С | D | Cv | Shipping Weight (LBS) |
| 2 | 0200 | 2 1/4 | 4 1/8 | 1 1/2 | 7/8 | 70 | 10 |
| 2 1/2 | 0250 | 2 3/8 | 4 7/8 | 1 3/4 | 1 | 190 | 12 |
| 3 | 0300 | 2 5/8 | 5 3/8 | 2 1/8 | 1 1/2 | 225 | 17 |
| 4 | 0400 | 2 1/4 | 6 7/8 | 3 1/8 | 2 1/4 | 295 | 26 |
| 5 | 0500 | 2 1/2 | 7 3/4 | 3 7/8 | 2 1/2 | 430 | 36 |
| 6 | 0600 | 2 3/4 | 8 3/4 | 4 3/4 | 2 3/4 | 700 | 53 |
| 8 | 0800 | 2 7/8 | 11 | 6 1/2 | 4 | 1,270 | 72 |
| 10 | 1000 | 3 1/8 | 13 3/8 | 7 3/4 | 7 3/16 | 2,350 | 115 |
| 12 | 1200 | 3 3/8 | 16 1/8 | 9 1/2 | 9 | 3,850 | 140 |
| 14 | 1400 | 4 1/4 | 17 5/8 | 10 1/8 | 9 3/4 | 4,250 | 170 |
| 16 | 1600 | 4 1/4 | 20 1/4 | 11 1/4 | 12 | 7,000 | 200 |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CSW125IS

| 4" Wafer Swing | Check Valve, | Cast Iron, | 316 Stainless | Steel Disc, |
|----------------|--------------|------------|---------------|-------------|
| Runa-N Seat | | | | |

| Operating Pressures and Temperatures | | | | | |
|--------------------------------------|-----------|-------------------|--|--|--|
| Туре | Size | psi @ Temp WOG | | | |
| CSW125IS | 2" - 12" | 200 @ 150 °F | | | |
| | 14" - 16" | 150 @ 150 °F | | | |



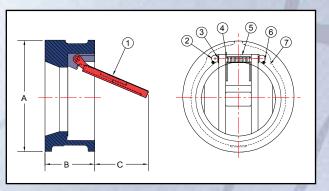
Wafer Swing Check Valves

CSW150SSMIR - Cast Stainless Steel

ASME Class 150 Wafer Swing Disc Design



The Wafer Swing Check Valve incorporates several features distinguishing it from conventional check valves for silent, fast, non-slam operation. The most prominent of these is the accurately machined disc and its special quick closing action. Spring loading of the 316 Stainless Steel



disc assures instantaneous closure to reversing flow, preventing build-up of momentum, which is the cause of damaging water hammer. The hinge pin design assures free movement of the disc and eliminates seizure under extreme conditions. Integral metal seat is standard for sealing. A lifting eye hook is standard on 8" to 14"

valves.

Notes:

 It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.

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

| | Construction | | | | |
|------|----------------|---------------------|--|--|--|
| Item | Description | Material | | | |
| 1 | Disc | A351 Gr. CF8M | | | |
| 2 | Set Bolt | 316 Stainless Steel | | | |
| 3 | Washer | 316 Stainless Steel | | | |
| 4 | Guide | 316 Stainless Steel | | | |
| 5 | Torsion Spring | 316 Stainless Steel | | | |
| 6 | Insert | A351 Gr. CF8M | | | |
| 7 | Cast Body | A351 Gr. CF8M | | | |

| | Dimensions (Inches) | | | | | | | |
|--------|---------------------|--------|-------|--------|----------|--------------|--|--|
| Si | ze | A B | С | C: | Shipping | | | |
| Inches | Prefix | А | ט | ò | Cv | Weight (LBS) | | |
| 2 | 0200 | 4 1/8 | 2 3/8 | 1 1/8 | 70 | 8 | | |
| 3 | 0300 | 5 3/8 | 2 7/8 | 1 1/2 | 225 | 16 | | |
| 4 | 0400 | 6 7/8 | 2 7/8 | 2 3/8 | 295 | 26 | | |
| 6 | 0600 | 8 3/4 | 3 7/8 | 3 3/4 | 700 | 55 | | |
| 8 | 0800 | 11 | 5 | 4 | 1,270 | 103 | | |
| 10 | 1000 | 13 3/8 | 5 3/4 | 5 7/16 | 2,350 | 143 | | |
| 12 | 1200 | 16 1/8 | 7 1/8 | 5 7/8 | 3,850 | 252 | | |
| 14 | 1400 | 17 3/4 | 7 1/4 | 7 | 4,250 | 294 | | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CSW150SSMIR

4" Wafer Swing Check Valve, Cast Stainless Steel, 316 Stainless Steel Disc, Metal Seat

| Operating Pressures and Temperatures | | | | |
|--------------------------------------|----------|-------------------|--|--|
| Туре | Size | psi @ Temp WOG | | |
| CSW150SSMIR | 2" - 14" | 275 @ 100 °F | | |



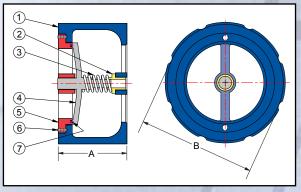
Silent Wafer Check Valves

CW125ISC - Cast Iron

ASME Class 125 Wafer Design



Sure Flow Wafer Check Valves are designed to close before the pump stops completely. This prevents flow reversal which eliminates water hammer and system surges associated with valve closure.



They feature quiet operation, a guided disc and can be installed in the vertical or horizontal position. The CW125ISC Wafer Check Valves are offered in sizes ranging from 2" to 12".

Notes:

- It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.
- * 12" size has special full lug pattern.
- Consult factory for optional construction materials and installation instructions. Optional resilient seating of Buna-N or Viton available for 6" size and larger.

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

| | Construction | | | | |
|------|-------------------------|-----------------|--|--|--|
| Item | Description | Material | | | |
| 1 | Cast Body | A126 Class B | | | |
| 2 | Bushing | Stainless Steel | | | |
| 3 | Spring | Stainless Steel | | | |
| 4 | Disc | A351 Gr. CF8M | | | |
| 5 | Seat | A351 Gr. CF8M | | | |
| 6 | Screw | Stainless Steel | | | |
| 7 | (Optional) Quad Ring | Buna-N | | | |

| | Dimensions (Inches) | | | | | |
|--------|---------------------|--------|--------|----------|--------------|--|
| Size | | АВ | Cv | Shipping | | |
| Inches | Prefix | ζ | Б | Ö | Weight (LBS) | |
| 2 | 0200 | 2 5/8 | 4 | 60 | 7 | |
| 2 1/2 | 0250 | 2 7/8 | 4 3/4 | 88 | 9 | |
| 3 | 0300 | 3 1/8 | 5 1/4 | 125 | 15 | |
| 4 | 0400 | 4 | 6 3/4 | 215 | 25 | |
| 5 | 0500 | 4 5/8 | 7 5/8 | 340 | 32 | |
| 6 | 0600 | 5 1/2 | 8 5/8 | 410 | 56 | |
| 8 | 0800 | 6 1/2 | 10 3/4 | 720 | 100 | |
| 10 | 1000 | 8 1/4 | 13 1/8 | 1,200 | 140 | |
| *12 | 1200 | 11 1/4 | 19 | 1,700 | 370 | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0250
 CW125ISC

| 2 1/2" Flat Face Wafer Silent Check | Valve, | Cast Iron, |
|-------------------------------------|--------|------------|
| 316 Stainless Steel Disc. | -/ | |

| Operating Pressures and Temperatures | | | | | |
|--------------------------------------|------|-------------------|--|--|--|
| Туре | Size | psi @ Temp WOG | | | |
| CW125ISC 2" - 12" 200 @ 150 °F | | | | | |



Silent Wafer Check Valves

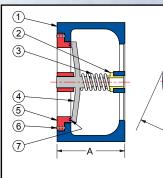
CW150C - Cast Steel
CW150SS - Cast Stainless Steel

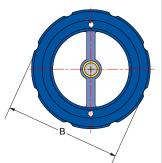
ASME Class 150 Wafer Design

Valves are designed to close before the pump stops completely.

This prevents flow

This prevents flow reversal which eliminates water hammer and system surges associated with valve closure.





They feature quiet operation, a guided disc and can be installed in the vertical or horizontal position. The CW150C and CW150SS Wafer Check Valves are offered in sizes ranging from 2" to 12".

Notes:

- It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.
- * 12" size has special full lug pattern.
- Consult factory for optional construction materials and installation instructions. Optional resilient seating of Buna-N or Viton available for 6" size and larger.

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

| I | Construction | | | | | |
|---|--------------------|-------------------------|-----------------|--|--|--|
| I | Item | Description | Material | | | |
| | Cast Body - Carbon | | A216 Gr. WCB | | | |
| | 1 | Cast Body - Stainless | A351 Gr. CF8M | | | |
| | 2 | Bushing | Stainless Steel | | | |
| | 3 | Spring | Stainless Steel | | | |
| | 4 | Disc | A351 Gr. CF8M | | | |
| | 5 | Seat | A351 Gr. CF8M | | | |
| | 6 | Screw | Stainless Steel | | | |
| | 7 | (Optional) Quad Ring | Buna-N | | | |

| | Dimensions (Inches) | | | | | |
|--------|---------------------|--------|--------|-------|--------------------------|--|
| | Size | | АВ | Cv | Shipping Weight (LBS) | |
| Inches | Prefix | | | | Weight (LB3) | |
| 2 | 0200 | 2 5/8 | 4 | 60 | 7 | |
| 2 1/2 | 0250 | 2 7/8 | 4 3/4 | 88 | 9 | |
| 3 | 0300 | 3 1/8 | 5 1/4 | 125 | 15 | |
| 4 | 0400 | 4 | 6 3/4 | 215 | 25 | |
| 5 | 0500 | 4 5/8 | 7 5/8 | 340 | 32 | |
| 6 | 0600 | 5 1/2 | 8 5/8 | 410 | 56 | |
| 8 | 0800 | 6 1/2 | 10 3/4 | 720 | 100 | |
| 10 | 1000 | 8 1/4 | 13 1/8 | 1,200 | 140 | |
| *12 | 1200 | 11 1/4 | 19 | 1,700 | 370 | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0800
 CW150SS

8" Raised Face Wafer Silent Check Valve, Cast Stainless Steel, 316 Stainless Steel Disc.

| Operating Pressures and Temperatures | | | | |
|--------------------------------------|----------|-------------------|--|--|
| Туре | Size | psi @ Temp WOG | | |
| CW150C | 2" - 12" | 285 @ 100 °F | | |
| CW150SS | 2" - 12" | 275 @ 100 °F | | |



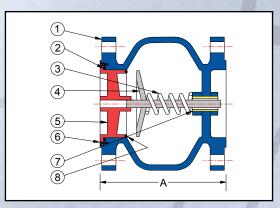
Silent Globe Check Valves

CF125ISC - Cast Iron

ASME Class 125 Flanged End Connections



Sure Flow Globe Check Valves are designed to close before the pump stops completely. This prevents flow reversal which eliminates water hammer and system surges associated with valve closure. They feature quiet operation, a guided disc and can be installed in the vertical or horizontal position. The CF125ISC is offered in sizes ranging from 2" to 24".



Construction Item Description Material Cast Body A126 Class B 2 O-Ring Buna-N 3 Spring Stainless Steel 4 Disc Stainless Steel 5 Seat Stainless Steel 6 Screw Stainless Steel 7 Bushing Stainless Steel (Optional) 8 Buna-N Quad Ring

Notes:

- It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.
- Consult factory for optional construction materials and installation instructions. Optional resilient seating of Buna-N or Viton Quad Ring available for 6" size and larger.

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

| Dimensions (Inches) | | | | | | |
|---------------------|--------|--------|--------|--------------------------|--|--|
| Size | | A | Cv | Shipping Weight (LBS) | | |
| Inches | Prefix | ^ | 0 | Weight (LBS) | | |
| 2 | 0200 | 6 1/4 | 70 | 30 | | |
| 2 1/2 | 0250 | 7 | 105 | 34 | | |
| 3 | 0300 | 7 1/2 | 147 | 50 | | |
| 4 | 0400 | 8 1/2 | 265 | 75 | | |
| 5 | 0500 | 9 1/2 | 430 | 100 | | |
| 6 | 0600 | 10 1/2 | 605 | 130 | | |
| 8 | 0800 | 13 1/2 | 1,105 | 240 | | |
| 10 | 1000 | 16 1/4 | 1,700 | 360 | | |
| 12 | 1200 | 20 1/4 | 2,575 | 600 | | |
| 14 | 1400 | 22 3/4 | 3,350 | 710 | | |
| 16 | 1600 | 24 3/4 | 4,300 | 810 | | |
| 18 | 1800 | 22 1/2 | 5,593 | 910 | | |
| 20 | 2000 | 24 | 7,093 | 1,140 | | |
| 24 | 2400 | 24 | 10,562 | 2,600 | | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CF125ISC

4" Flat Face Flanged Silent Check Valve, Cast Iron, 316 Stainless Steel Disc.

| Operating Pressures and Temperatures | | | | | | | |
|--------------------------------------|-----------|-------------------|--|--|--|--|--|
| Туре | Size | psi @ Temp WOG | | | | | |
| CF125ISC | 2" - 12" | 200 @ 150 °F | | | | | |
| CF 12515C | 14" - 24" | 150 @ 150 °F | | | | | |

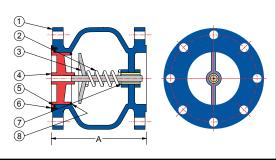


Silent Globe Check Valves

CF150C - Cast Steel
CF150SSC - Cast Stainless Steel

ASME Class 150 Flanged End Connections

Sure Flow Globe Check Valves are designed to close before the pump stops completely. This prevents flow reversal which eliminates water hammer and system surges associated with valve closure.



They feature quiet operation, a guided disc and can be installed in the vertical or horizontal position. The CF150C and CF150SSC are offered in sizes ranging from 2" to 12".

Notes:

- It is recommended that valves be installed 7 to 10 pipe lengths away from the turbulence.
- Consult factory for optional construction materials and installation instructions. Optional resilient seating of Buna-N or Viton available for 6" size and larger.

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

| Construction | | | | | | | | | |
|--------------|-------------------------|-----------------|--|--|--|--|--|--|--|
| Item | Description | Material | | | | | | | |
| 1 | Cast Body - Carbon | A216 Gr. WCB | | | | | | | |
| ı | Cast Body - Stainless | A351 Gr. CF8M | | | | | | | |
| 2 | Spring | Stainless Steel | | | | | | | |
| 3 | Disc | Stainless Steel | | | | | | | |
| 4 | Seat | Stainless Steel | | | | | | | |
| 5 | O-Ring | Buna-N | | | | | | | |
| 6 | Screw | Stainless Steel | | | | | | | |
| 7 | Bushing | Stainless Steel | | | | | | | |
| 8 | (Optional) Quad Ring | Buna-N | | | | | | | |

| | Dimensions (Inches) | | | | | | | | |
|--------|---------------------|--------|-------|--------------|--|--|--|--|--|
| | Size | | Cv | Shipping | | | | | |
| Inches | Prefix | Α | | Weight (LBS) | | | | | |
| 2 | 0200 | 6 1/4 | 70 | 14 | | | | | |
| 2 1/2 | 0250 | 7 | 105 | 20 | | | | | |
| 3 | 0300 | 7 5/8 | 147 | 25 | | | | | |
| 4 | 0400 | 8 1/2 | 265 | 41 | | | | | |
| 6 | 0600 | 10 1/2 | 605 | 67 | | | | | |
| 8 | 0800 | 12 | 1,105 | 129 | | | | | |
| 10 | 1000 | 14 | 1,700 | 197 | | | | | |
| 12 | 1200 | 18 | 2,575 | 321 | | | | | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 CF150C

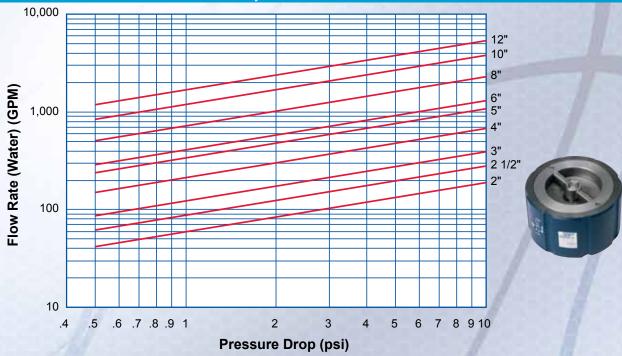
4" Raised Face Flanged Silent Check Valve, Cast Steel, 316 Stainless Steel Disc.

| Operating Pressures and Temperatures | | | | | | | |
|--------------------------------------|----------|-------------------|--|--|--|--|--|
| Туре | Size | psi @ Temp WOG | | | | | |
| CF150C | 2" - 12" | 285 @ 100 °F | | | | | |
| CF150SSC | 2" - 12" | 275 @ 100 °F | | | | | |

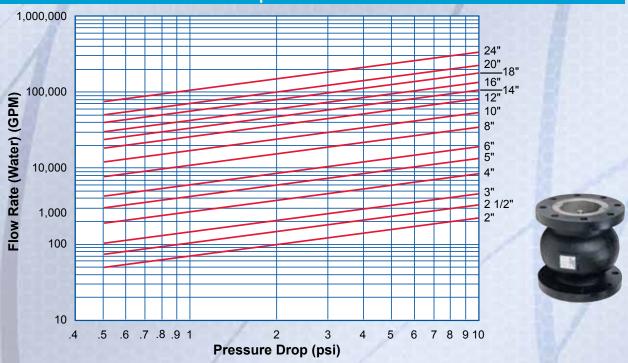


Silent Check Valves - Pressure Drop

Flow Rate Vs. Pressure Drop - CW Series Wafer Check Valves



Flow Rate Vs. Pressure Drop - CF Series Globe Check Valves



Notes:

- The above curves are based on the flow of clean water at ambient temperature.
- Preferred piping standards recommend placing check valves 7 to 10 pipe diameters from any turbulence producing device, i.e. pumps, elbows, etc.
- Maximum recommended flow velocity of 10 ft/sec.
- These charts are for theoretical calculations ONLY. Please contact our office with your exact specifications and you will be provided with factory calculations.



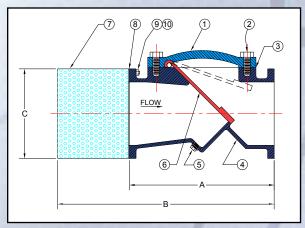
Elastic Swing Foot Valves

FVCEXF125 - Ductile Iron



ASME 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



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 |

| | Dimensions (Inches) | | | | | | | | | | |
|--------|---------------------|----------|---------|--------|------------|--------|--------------------------|--|--|--|--|
| Inches | ize Prefix | А | В | С | Drain Size | Cv | Shipping Weight (LBS) | | | | |
| 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 | 1,520 | 300 | | | | |
| 10 | 1000 | 24 1/2 | 31 | 16 1/4 | 2 1/2 | 2,440 | 630 | | | | |
| 12 | 1200 | 27 1/2 | 35 | 19 1/4 | 2 1/2 | 3,680 | 852 | | | | |
| 14 | 1400 | 31 | 39 1/2 | 21 1/4 | 2 1/2 | 5,280 | 1,032 | | | | |
| 16 | 1600 | 31 15/16 | 41 7/16 | 23 3/4 | 2 1/2 | 6,960 | 1,308 | | | | |
| 18 | 1800 | 35 15/16 | 47 7/16 | 25 1/4 | 3 | 8,960 | 1,740 | | | | |
| 20 | 2000 | 39 15/16 | 55 7/16 | 27 3/4 | 3 | 11,360 | 1,890 | | | | |
| 24 | 2400 | 47 15/16 | 65 7/16 | 32 1/4 | 3 | 16,800 | 3,120 | | | | |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 0400
 FVCFXF12

| 0400 | FVCEXF12 |
|----------------------------|---------------------------|
| 4" Flanged Elastic Swing F | Foot Valve, Ductile Iron, |
| Buna-N Disc with Steel an | d Fabric Reinforcement. |

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



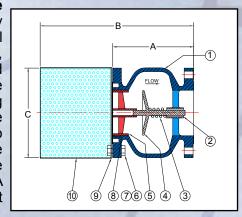
Silent Seat Foot Valves

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

ASME Flanged End Connections

The Sure Flow Globe 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 | 10 |
| Description | Body | Bushing | Spring | Disc | Quad Ring | Studs | Nuts | O-Ring | Plate Flange | Screen Assembly |

| | Dimensions (Inches) | | | | | | | | | |
|--------|---------------------|--------|--------|--------|--------|--------|--------|-------|-----------------------|-----|
| Si | ze | A | | E | В | | | Cv | Shipping Weight (LBS) | |
| Inches | Prefix | 125 | 150 | 125 | 150 | 125 | 150 | CV | 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 | 1,360 | 425 | 340 |
| 12 | 1200 | 20 1/4 | 18 | 26 | 23 3/4 | 19 1/4 | 19 1/4 | 2,060 | 716 | 577 |
| 14 | 1400 | 22 3/4 | 1 | 31 1/4 | - | 21 1/4 | - | 2,680 | 1,138 | - |
| 16 | 1600 | 24 3/4 | - | 34 1/4 | - | 23 3/4 | - | 3,440 | 1,420 | - |
| 18 | 1800 | 22 1/2 | - | 34 | - | 25 1/4 | - | 4,475 | 1,590 | - |
| 20 | 2000 | 24 | - | 39 1/2 | - | 27 3/4 | - | 5,675 | 1,989 | - |
| 24 | 2400 | 24 | - | 41 1/2 | - | 32 1/4 | - | 8,450 | 4,480 | - |

Ordering Information

Example: Include full description

 Size
 Model

 (Prefix)
 Number

 1200
 FV125

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

| Operating Pressures and Temperatures | | | | | | | |
|--------------------------------------|-----------|----------------|--|--|--|--|--|
| Туре | Size | psi @ Temp WOG | | | | | |
| FV125 | 2" - 12" | 200 @ 150 °F | | | | | |
| FVIZO | 14" - 24" | 150 @ 150 °F | | | | | |
| FV150 | 2" - 12" | 285 @ 100 °F | | | | | |
| FV150SS | 2" - 12" | 275 @ 100 °F | | | | | |



Sure Flow Custom Engineered Strainers



Another Group of "Handsome" Sure Flow Employees



Sure Flow Custom Engineered Basket Strainers



Venezuela's Monel Custom Strainer Basket



ASME "U" Stamp Basket Strainers



Hanging Out



High Capacity Forged Tee Strainers



Creative Custom Fabrication



Rubber Lined "Giant" Basket Strainer



South America: "The Big Guys" Basket Strainer

A Sampling of our "Team" Accomplishments





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.

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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