

94103 Static Pressure Vacuum Vent

The Shand & Jurs 94103 Static Pressure Vacuum Vent design has utilized over 90 years of experience in the development of quality safety and conservation fittings. This model is specifically designed to operate at high static pressures and at temperature ranges from minus 50 degrees to plus 200 degrees Fahrenheit. Provisions for high vacuum settings are provided.

Standard materials of construction are cast steel or cast stainless steel bodies with aluminum or stainless steel trim. The seat is cast aluminum or cast stainless steel to withstand high pressures. Standard Buna-N coated nylon diaphragm is cushion-seated for tighter sealing. Other materials are also available.

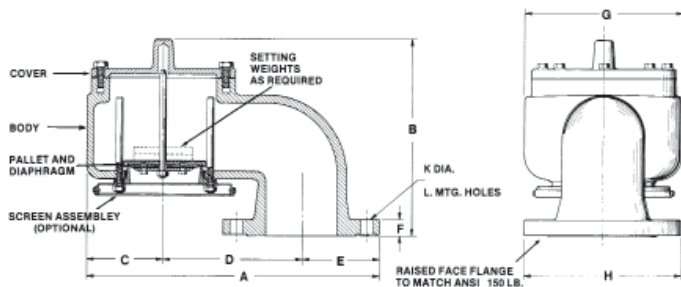
The 94103 Static Pressure Vacuum Vent is available only in a 4-inch size with raised face flange to match ANSI 150 LB. The body is self-draining and a drip ring keeps condensates from the seating surface. A unique feature is a special screen holder, which includes a stainless steel 30-mesh screen. Other design features include a peripheral and stem-guided vacuum pallet, designed primarily for high pressures and higher vacuum settings.



Features

- Versatile
- High back pressure capability
- Reliable
- Rugged
- Meets U.S. Coast Guard requirements with Stainless Steel screen option

Dimensions:



| Vent Size | Table of Dimensions - Inches | | | | | | | | | | | Appr. Net Wt. lbs. | Appr. Shpg. Wt. lbs. | Box Size Inches |
|-----------|------------------------------|--------|-------|-------|-------|-----|-------|-----|-----|-----|----|--------------------|----------------------|-----------------|
| | "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" | "K" | "L" | | | | |
| 4" | 17 3/8 | 11 1/4 | 4 5/8 | 8 1/4 | 4 1/2 | 1 | 9 1/4 | 9 | 3/4 | 8 | 64 | 69 | 21 x 14 x 15 | |

All designs subject to change. Certified dimensions and specifications available upon request.

Materials of Construction:

| Type | | Normal Service | Severe Service |
|---|--------------------|--|-------------------------------|
| Size | | 4 Inch | 4 Inch |
| Trim | | Aluminum | Stainless Steel |
| Vacuum Settings | Minimum (Standard) | 1.0 oz./in. ² | 1.75 oz./in. ² |
| | Maximum | 32 oz./in. ² | 32 oz./in. ² |
| Temperature Range | | -50°F to +200°F | |
| *Maximum Static Pressure | | 150 PSIG | |
| Body & Cover | | Cast Steel | Cast Steel or Stainless Steel |
| Seat | | Cast Steel | Cast Stainless Steel |
| Pallet, Screen Holder, Screen Cup and Support Plate | | Aluminum | Stainless Steel |
| Screen | | Galvanized Steel | Stainless Steel |
| Back-Up Disc, Cover Gasket & Spacer | | N8090 Composite Nitrile Fiber | |
| Diaphragm | | Buna-N Coated Nylon | |
| Pallet Guide and Stem | | Stainless Steel | |
| Special Options | | 30 Mesh Stainless Steel Screen for U.S. Coast Guard Requirements | |

Materials of construction for this equipment have been selected as representing the most suitable commercially available material for use in the service intended. However, they do not constitute a guarantee against corrosion since processes vary from plant to plant and concentration of harmful fluids, gases or solids vary from time to time in a given process. Empirical experience by users should be the final guide and alternate materials based on this are generally available.

*Recommended service pressure is 20 PSIG max. Available with CE certification for maximum service pressure of .5 barg. Consult Factory.

Materials of Construction

| | Normal Service Opt. 1 = 45 or 46 | Severe Service Opt. 1 = 35 or 36 | Severe Service Opt. 1 = 55 or 56 |
|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Body | Cast Steel LC-1 | Cast Steel LC-1 | Cast 316 Stainless Steel |
| Cover Plate | Cast Steel LC-1 | Cast Steel LC-1 | Cast 316 Stainless Steel |
| Seat | Cast Aluminum | Cast Stainless Steel | Cast 316 Stainless Steel |
| Pallet | Aluminum | Stainless Steel | 316 Stainless Steel |
| Pallet Guide | Stainless Steel | Stainless Steel | 316 Stainless Steel |
| Screen | Galvanized Wire | Stainless Steel | 316 Stainless Steel |
| Support Plate | Aluminum | Stainless Steel | 316 Stainless Steel |
| Retaining Plate | Aluminum | Aluminum | 316 Stainless Steel |
| Stem | Stainless Steel | Stainless Steel | 316 Stainless Steel |
| Diaphragm | BUNA N / Nylon | BUNA N / Nylon | BUNA N / Nylon |
| Back-up Disk | N8090 | N8090 | N8090 |
| Spacer | N8090 | N8090 | N8090 |
| Gaskets | N8090 | N8090 | N8090 |
| Screen Holder | Aluminum | Stainless Steel | 316 Stainless Steel |
| Screen Cup | Aluminum | Stainless Steel | 316 Stainless Steel |
| Hardware | Stainless Steel | Stainless Steel | 316 Stainless Steel |

94103 Ordering Guide

Model Number Selection

The model number will consist of a base number **94103** followed by 4 digit numbers. These digits will represent 2 option tables.

94103 - AB - CD

Ordering Information

Specify:

1. Model 94103 Vacuum Vent
2. Material (Service Type)
3. Setting
4. Screen Type



Table AB - Material and Setting

| Option AB | Material | Setting | Service |
|-----------|-----------------|----------|---------|
| 45 | Cast Steel | Standard | Normal |
| 46 | Cast Steel | > 2 oz. | Normal |
| 35 | Cast Steel | Standard | Severe |
| 36 | Cast Steel | > 2 oz. | Severe |
| 55 | Stainless Steel | Standard | Severe |
| 56 | Stainless Steel | > 2 oz. | Severe |

* Max. Setting = 32 oz. (Lead loading Weights). Higher settings available.
Stainless Steel Weights available by special request. Max. Settings 20 oz.

Table CD - Inlet Screen

| Option CD | Description |
|-----------|--|
| 02 | Normal Service: 4-Mesh X 23 Gauge Galvanized Steel |
| 03 | Severe Service: 6-Mesh X 20 Gauge (.035) Stainless Steel |
| 04 | Coast Guard Stainless Steel: 30-Mesh to Comply with U.S. Coast Guard Requirement |