

Model 4300 Spring Loaded Vacuum Vent End-of-Line

OBJECTIVE

The Model 4300 end-of-line spring loaded vacuum vent is intended for use on storage tanks, vapor recovery systems and process systems where higher vacuum relief settings are required.

TECHNIQUE

A spring loaded vacuum pallet assembly in the vent housing remains closed until the set point is reached during normal inbreathing due to product movement out of the tank and/or temperature changes. When the set point of the vent is reached, the spring loaded pallet opens to permit the intake of air to prevent tank damage. Once the vacuum is satisfied the pallet closes providing a tight seal.

CONSTRUCTION

Housing Material: The Model 4300 vent is a rugged design made to last. Available in Aluminum, Carbon Steel, or 316 SST

Sizes - Connections. Available in Sizes 2" thru 6". CS and SST vents have Raised Face Flange, Aluminum vents have Flat Face Flange to mate with standard ASME 150# flange connections.

Pallet Diaphragm Material: FEP TFE is standard. Also available Buna-N, EPDM or Fluorocarbon Elastomer (FKM).

SPECIAL FEATURES

Modular: The Model 4300 spring loaded end-of-line vacuum vent is part of Valve Concepts, Inc. modular vent product line. The vacuum vent can easily be converted to a pressure / vacuum vent, venting to atmosphere or with a pipeaway, which can either be weight loaded, spring loaded or pilot operated depending on the application requirements.

Maintains Accurate Vacuum Settings. The minimum vacuum setting is 1.0 psig and the maximum vacuum setting is 15 psig. As with every vent supplied by Valve Concepts, Inc. a certified test report is provided verifying vent setting and leakage. All spring loaded vacuum vents are suitable for intermittent back pressures of 50 psig. Higher back pressure ratings available on request.

Condensate Drainage. Self-draining housing body and drip rings keep condensate away from seating surfaces, preventing freezing, binding and clogging.

Air-Cushioned Seating. Air-cushion seating provides tight sealing to reduce the unnecessary intake of air into the tank and loss of vapors to the atmosphere.

| MATERIALS OF CONSTRUCTION | | |
|---------------------------|----------|---------|
| Series | Housing | Pallet |
| 4300CS | CS | 316 SST |
| 4300SST | 316 SST | 316 SST |
| 4300A | Aluminum | 316 SST |

STANDARD/GENERAL SPECIFICATIONS

Gaskets: Standard: TFE/TFE Rope

Diaphragm FEP-TFE:
Temperature -400° to 400° F (-240° to 204°C)
Limits: Fluorocarbon Elastomer – (FKM):
0° to 400° F (0° to 204°C)
Buna-N (Nitrile-NBR):
-30° to 200° F (-34° to 93°C)
EPDM (Ethylenepropylene):
-40° to 225° F (-40° to 107°C)

Painting: Standard: Exterior coating will be a combination of Cashco Paint Specs #S-1777 epoxy and #S-1743 powder coated. Fasteners, seat surfaces - corrosion resistant parts excluded.

Alternate Paint: See Opt-95OS.

OPTION SPECIFICATIONS

BUG SCREEN - 304 stainless steel, 4x4 welded mesh.

FLAME SCREEN - 304 stainless steel, 30x30 woven mesh

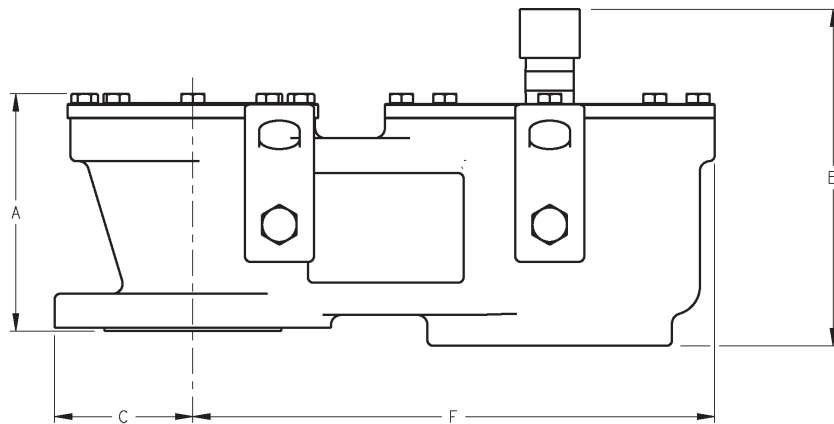
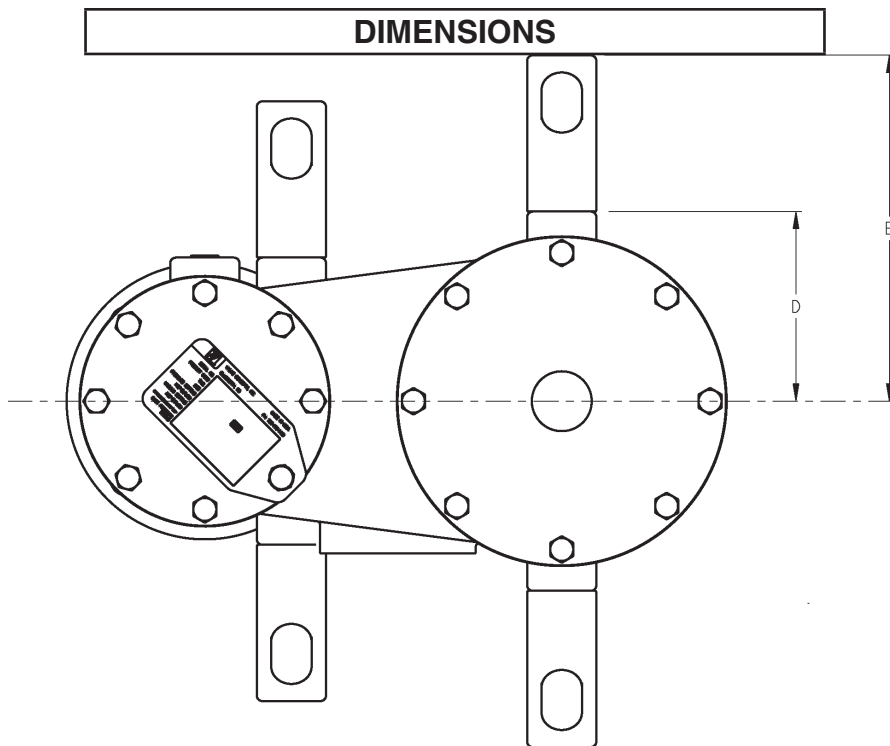
ELECTRIC TRACE - Electric heat tape is wrapped around external surface of the vent body. A thermal insulation jacket is secured over the tape and vent body to minimize heat loss. Commonly used to prevent the formation of ice during freezing conditions. See STEAM JACKETING if elevated process temperatures are desired.

STEAM TRACE - Copper tubing is wrapped around the external surface of the vent body. A thermal insulation jacket is secured over the tubing and vent body to minimize heat loss. Commonly used to prevent the formation of ice during freezing conditions. See STEAM JACKETING if elevated process temperatures are desired.

STEAM JACKETING - Cast aluminum jacket with integrated carbon steel steam chambers are bolted around the vent body. Vent valve and jacket are shipped unassembled as vent valve must first be installed. Commonly used to prevent stored media vapors from crystallizing at ambient temperatures.

Option -40: NACE CONSTRUCTION. Internal wetted portions meet NACE standard MR0175, when exterior of the vent is not directly exposed to a sour gas environment, buried, insulated or otherwise denied direct atmospheric exposure.

Option -95OS: **OFFSHORE** installations. Coating of all exterior surfaces will be per Cashco Paint Specs #S-1777 epoxy. fasteners, seat surfaces and corrosion resistant parts excluded. Painting of fasteners optional upon special request.



| ENGLISH Units - in Aluminum, Carbon Steel & Stainless Steel Body | | | | | | | Weight lbs. | |
|---|------|------|------|------|-------|-------|-------------|--------|
| SIZE In | A | B | C | D | E | F | Alum | CS/SST |
| 2" | 5.24 | 6.69 | 3.00 | 4.18 | 7.51 | 9.48 | 16 | 47 |
| 3" | 6.34 | 7.60 | 3.75 | 4.55 | 7.89 | 12.31 | 20 | 65 |
| 4" | 7.27 | 9.68 | 4.50 | 5.84 | 9.23 | 16.38 | 32 | 95 |
| 6" | 7.85 | 8.94 | 5.50 | 7.91 | 11.27 | 20.00 | 45 | 141 |
| METRIC Units - mm Aluminum, Carbon Steel & Stainless Steel Body | | | | | | | Weight kg. | |
| 2" | 132 | 170 | 77 | 106 | 191 | 241 | 8 | 21 |
| 3" | 161 | 193 | 96 | 115 | 200 | 313 | 9 | 28 |
| 4" | 184 | 245 | 115 | 148 | 234 | 416 | 14 | 41 |
| 6" | 199 | 227 | 140 | 201 | 286 | 508 | 20 | 61 |

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4300 Series PRODUCT CODE

04/06/16

Last 6 Characters reserved for SPQ drawing numbers assigned by Cashco Inc.
(Format as - # # # # # #)



| POSITION 3 - PALLET DESIGN | |
|--|------|
| Material | CODE |
| STD | 0 |
| Intermittent Back Pressure 50 psig Max. | B |

| POSITION 4 - FLANGE - SIZE | | | |
|----------------------------|------|-------------------------|------|
| ASME INCH | CODE | DIN FLANGES DN (rating) | CODE |
| 2" | 2 | 50 (PN16) | H |
| 3" | 3 | 80 (PN16) | J |
| 4" | 4 | 100 (PN16) | K |
| 6" | 6 | 150 (PN16) | L |

| POSITION 5 - BODY / TRIM MATERIALS | | | |
|------------------------------------|----------------------|-----------------|---------------|
| MATERIAL | Std. W/O Flamescreen | W/ Flame Screen | W/ Bug Screen |
| | CODE | CODE | CODE |
| ALUM/SST | A | B | N |
| CS/SST * | C | D | P |
| SST/SST * | S | T | R |

* Select for NACE Construction.

| POSITION 7 - DIAPHRAGM MATERIALS | |
|----------------------------------|------|
| Diaphragm | CODE |
| FEP TFE (Std) * | A |
| Buna-N | B |
| EPDM | D |
| FKM * | F |

* Select for NACE Construction.

| POSITION 8 - VACUUM SET POINT | | |
|-------------------------------|--------------|------|
| Spring Loaded Range | | CODE |
| psig | barg | |
| 1 - 4 | .06 - .27 | 2 |
| > 4 - 6 | > .27 - .41 | 3 |
| > 6 - 8 | > .41 - .55 | 4 |
| > 8 - 10 | > .55 - .68 | 5 |
| > 10 - 12 | > .68 - .83 | 6 |
| > 12 - 13 | > .83 - .89 | 7 |
| > 13 - 15 | > .89 - 1.03 | 8 |

| POSITION 11 - OPTION | | |
|----------------------|--------|------|
| DESCRIPTION | OPTION | CODE |
| No Option | - | 0 |
| NACE Constr. | -40 | N |
| Offshore Paint | -95OS | Y |

| POSITION 12 - ACCESSORY / CERTS | | | |
|---------------------------------|---------------|--------|-------|
| OPTION | Certification | | |
| | Std | ATEX * | PED * |
| | CODE | CODE | CODE |
| None | 0 | A | E |
| Electric Trace | H | B | F |
| Steam Jacket | J | C | G |
| Steam Trace | S | D | K |

* Forward Completed "EU" Application Recorder prior to quotation. (Without Recorder- Processing of Purchase Order will be delayed).
"PED" Compliance - Ref to Directive 97/23/EC.
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