

Foam Sealing Membrane

Description

The SKUM foam sealing membrane is designed as a wafer thin seal that is easily installed between flanges. Manufactured from corrosion resistant stainless steel, a Teflon FEP membrane seals off the storage tank content from the foam line.

Application

The foam sealing membrane is intended for use as a check valve. This seals off the tank product from the foam supply line in a subsurface system or as a gas-proof check valve in an over the top foam system.

The foam sealing membrane is an integral part of the systems to be added in the PFG subsurface and HSSS semi-subsurface foam units.

Features

The foam sealing membrane has the following features:

- Corrosion-resistant construction made from stainless steel and Teflon FEP
- Installed between DIN and/or ANSI flanges
- Low opening pressure in flow direction
- High back pressure resistance in back flow direction
- Self center flange ring
- Teflon FEP membrane is resistant to most chemicals excluding pressurised, heated halogen fluorine compounds and alkali metals

Connections

The foam sealing membrane fits in pipe work flanged according to DIN PH16 and ANSI 150 lb and mm size.

Note: The internal diameter of stainless steel is different from normal steel pipe sizes.



Listings and Approvals

The SKUM foam sealing membrane is approved, listed, qualified under, or meets the requirements of the following specifications and standards:

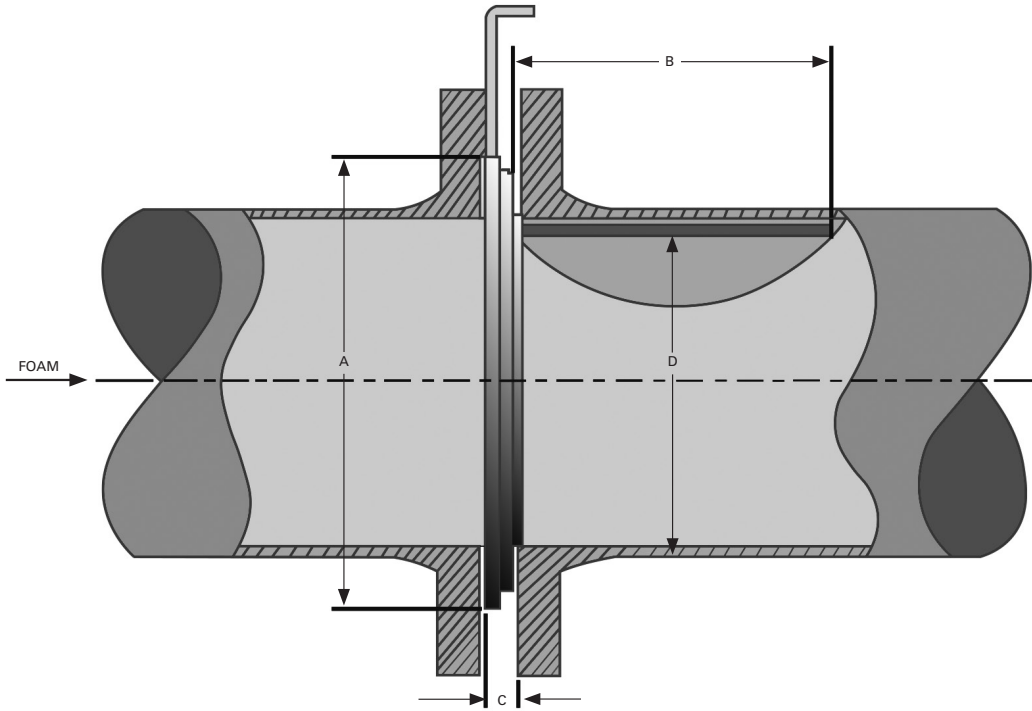
- Tanusitvany (Hungary)
- KFSD (Kuwait)

Ordering Information

When ordering, specify the following information:

| Part Number | Description |
|-------------|-------------|
| 146110148 | SM-100 |
| 146115135 | SM-150 |
| 146120115 | SM-200 |
| 146125032 | SM-250 |
| 146130030 | SM-300 |

SM 100 – SM 300 Dimensions



Note: See Performance Data for dimensions A, B, C, and D.

Performance Data

| SM Type | | | | SM 100 | SM 150 | SM 200 | SM 250 | SM 300 |
|---|-------------|---------------------------------|--------------|-----------------|--------------|---------------|--------------|--------------|
| Dimensions | A | Outside Diameter | mm (in.) | 162 (6) | 220 (9) | 275 (11) | 328 (13) | 376 (15) |
| | B | Minimum Free Length Inside Pipe | mm (in.) | 100 (4) | 150 (6) | 200 (8) | 250 (10) | 300 (12) |
| | C | Excluding Gaskets | mm (in.) | 13 (.5) | 14 (.55) | 15.5 (.61) | 19 (.74) | 20 (.78) |
| | D | Minimum Allowed Pipe Diameter | mm (in.) | 101 (4) | 152 (6) | 201 (8) | 252 (10) | 300 (12) |
| Maximum Back Pressure | | | bar (psi) | 6 (87) | 6 (87) | 4 (58) | 3 (44) | 3 (44) |
| Minimum Required Opening Pressure* | | | bar (psi) | 0.4 (6) | 0.25 (4) | 0.2 (3) | 0.2 (3) | 0.4 (6) |
| Fitting Flanges | DIN PN 16 | | | 100 | 100 | 200 | 250 | 300 |
| | ANSI 150 lb | | | 4 in. | 6 in. | 8 in. | 10 in. | 12 in. |
| Weight | | | kg (lb) | 1.0 (2) | 2.0 (4) | 3.7 (8) | 6.3 (14) | 9.6 (21) |
| Material | Body | | | Stainless Steel | | | | |
| | Gate | | | Stainless Steel | | | | |
| | Membrane | | | Teflon FEP | | | | |
| Maximum Usage Temperature | | | °C (°F) | 200 (392) | 200 (392) | 200 (392) | 200 (392) | 200 (392) |

* Add static tank pressure for minimum required foam supply pressure.

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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