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 membrance 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 centre flange ring
- Teflon FEP membrane is resistant to most chemicals excluding pressurised, heated halogen fluorine compounds and alkali metals

Connections

The foam sealing membrance fits in pipework 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

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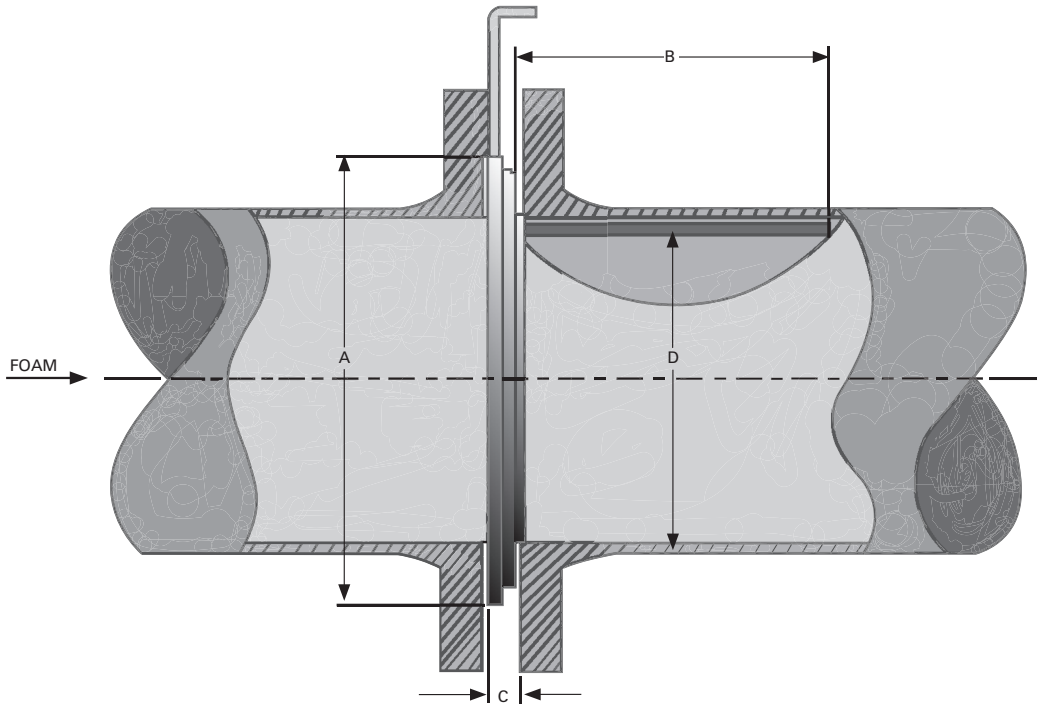
SM 100 – SM 300 Dimensions



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	162	220	275	328	376
			(in.)	(6)	(9)	(11)	(13)	(15)
	B	Minimum free length inside pipe	mm	100	150	200	250	300
			(in.)	(4)	(6)	(8)	(10)	(12)
	C	Excluding gaskets	mm	13	14	15.5	19	20
			(in.)	(5)	(0.55)	(0.61)	(0.74)	(0.78)
	D	Minimum allowed pipe diameter	mm	101	152	201	252	300
			(in.)	(4)	(6)	(8)	(10)	(12)
Maximum Back Pressure			bar	6	6	4	3	3
			(psi)	(87)	(87)	(58)	(44)	(44)
Minimum Required Opening Pressure*			bar	0.4	0.25	0.2	0.2	0.4
			(psi)	(6)	(4)	(3)	(3)	(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	1.0	2.0	3.7	6.3	9.6
			(lb)	(2)	(4)	(8)	(14)	(21)
Material	Body			Stainless steel				
	Gate			Stainless steel				
	Membrane			Teflon FEP				
Maximum Usage Temperature			°C	200	200	200	200	200
			(°F)	(392)	(392)	(392)	(392)	(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.