

**SANITARY DIAPHRAGM SEAL WITH  
THREADED PROCES CONNECTION  
AS PER DIN 11851, SMS, RJT/APV, IDF/ISS**

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Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids which may be corrosive, viscous, sedimentous and/or with a high temperature. The diaphragm is welded to the upper body, to ensure separation of filling fluid from process medium. Designed in accordance with food and pharmaceutical standards to permit easy removal from the plant whilst maintains the hygienic feature during frequent cleaning.

**Constructive and functional characteristics:**

**Pressure range:** see Scales table.

**Working temperature:** -20°C..+120°C.

**Accuracy (20°C):** add to instrument accuracy. ±0,5% (only for direct assembly).

**Instrument connection:** AISI 316 st.st. 1/2" BSP F (1/4" BSP F for DN25DIN and 1"IDF ).

**Diaphragm:** AISI 316 L st. st., welded.

**Filling liquid:** oil for food industry.

**Process connection:** AISI316 st. st. as per:

- DIN 11851
- SMS
- RJT/APV
- IDF/ISS



**SCALES**

Female with union nut

Male

Process connection	DN	Pressure gauge			Pressure gauge		
		DN63	DN100	DN150	DN63	DN100	DN150
DIN 11851	25	0..6÷0..40 bar	--	--	0..6÷0..40 bar	--	--
	32	--	0..4÷0..40 bar	0..10÷0..40 bar	--	0..4÷0..40 bar	0..10÷0..40 bar
	40	--	0..2,5÷0..40 bar	0..6÷0..40 bar	--	0..4÷0..40 bar	0..10÷0..40 bar
	50	--	0..1,6÷0..40 bar	0..4÷0..40 bar	--	0..2,5÷0..40 bar	0..6÷0..40 bar
SMS 681	1"1/2	--	0..4÷0..40 bar	0..10÷0..40 bar	--	0..4÷0..40 bar	0..10÷0..40 bar
	2"	--	0..2,5÷0..40 bar	0..6÷0..40 bar	--	0..2,5÷0..40 bar	0..6÷0..40 bar
RJT/APV	1"1/2	--	0..4÷0..40 bar	0..10÷0..40 bar	--	0..4÷0..40 bar	0..10÷0..40 bar
	2"	--	0..2,5÷0..40 bar	0..6÷0..40 bar	--	0..2,5÷0..40 bar	0..6÷0..40 bar
IDF/ISS	1"	0..6÷0..40 bar	--	--	0..6÷0..40 bar	--	--
	1"1/2	--	0..4÷0..40 bar	0..10÷0..40 bar	--	0..4÷0..40 bar	0..10÷0..40 bar

This publication does not try to establish the bases of a contract and the company keeps the right to modify without previous notice the design and the specifications of the instruments, in accordance with his politics of continued development.

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	2"	--	0..2,5÷0..40 bar	0..6÷0..40 bar	--	0..2,5÷0..40 bar	0..6÷0..40 bar
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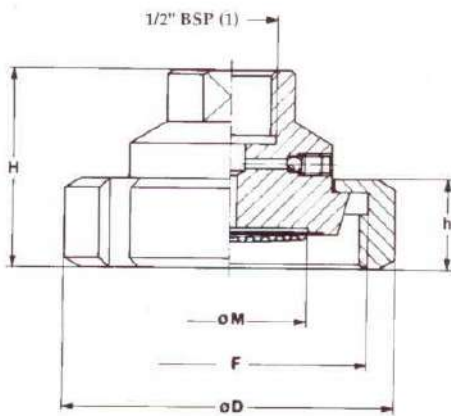
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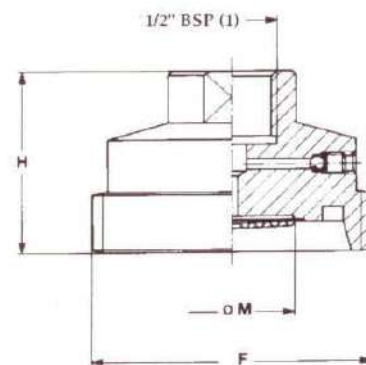
**TYPES AND DIMMENSIONS IN mm**

**FEMALE WITH UNION NUT**



(1) DN 25 and DN 1\" = 1/4\" BSP

**MALE**



**DIN 11851 (example drawn above)**

DN	H	h	D	M	F(DIN405)
25	44	21	63	20,5	Rd 52x1/6
32	46	21	70	29	Rd 58x1/6
40	46	21	78	36	Rd 65x1/6
50	47	22	92	50	Rd 78x1/6

**SMS**

DN	H	h	D	M	F(DIN405)
1\"1/2	49,5	25	74	29	Rd 60x1/6
2\"	50,5	26	84	36	Rd 70x1/6

**RJT/APV**

DN	H	h	D	M	F(Withwort)
1\"1/2	49,5	22	Ex. 65	29	2\" 5/16x8
2\"	49,5	22	Ex. 79	36	2\" 7/8x6

**IDF/ISS**

DN	H	h	D	M	F(ACME)
1\"	53	30	48	20,5	1\" 1/2x8
1\"1/2	54,5	30	64	29	2\" 1/32x8

**DIN 11851 (example drawn above)**

DN	H	M	F(DIN405)
25	37	20,5	Rd 52x1/6
32	42	29	Rd 58x1/6
40	42	29	Rd 65x1/6
50	42	36	Rd 78x1/6

**SMS**

DN	H	M	F(DIN405)
1\"1/2	43	29	Rd 60x1/6
2\"	43	36	Rd 70x1/6

**RJT/APV**

DN	H	M	F(Withwort)
1\"1/2	46,5	29	2\" 5/16x8
2\"	46,5	36	2\" 7/8x6

**IDF/ISS**

DN	H	M	F(ACME)
1\"	39,5	20,5	1\" 1/2x8
1\"1/2	44,5	29	2\" 1/32x8

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