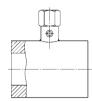
Application:

- In-line seals are especially suitable also for circulating, highly viscous media and such that are inclined to swirl, and for often changing media, since in-line seals are very well cleanable.
- In-line seals for food industry, Biology and pharmacy.

Construction:

The diaphragm tube is flush welded to the cylindrical body.

The complete measuring system is evacuated, completely filled with a suitable filling liquid and hermetically sealed.



Do not open any connection of the system! Otherwise filling fluid will leak out and the measuring system cannot work properly anymore!





Specifications:

Process Connections

Norm Sealing Face Nom. Size

Pancake type: DIN EN PN 16-100:

DIN EN 1092-1 Form B2 PN 160-400:

DIN 2526 From E DN 20...100

ASME ASME B 16.5 RF 1"...4"

Flange type: DIN EN DIN EN 1092-1

From B1

DN 20...100

ASME ASME B 16.5 RF DN 1"...4"

Body

316 L Stainless steel

Diaphragm

Diaphragm tube 316 L welded to the cylindrical body

Nominal Pressure

PN 16 to 400 bar and 150 to 2500 lb/sq.in., dependent on model and size, see page 2 $\,$

Instrument Connection

G 1/2 female (1/2" BSP-F), stainless steel 316 L

Filling Liquid

Silicone oil

Pressure Ranges Measuring Instrument

Pressure gauge: 0-1 bar resp. 0-2.5 bar up to PN, dependent on model and size, compare table page 2

(also corresponding pressure/vacuum compound ranges)

Minimum pressure ranges for other measuring instruments upon request

Reference Temperature

+20 °C (+68 °F), dial inscription for pressure gauges: ta 20 °C

Sealings

Not part of our standard supply

Options

- Female instrument connection G 1/2" B others upon request
- Other materials diaphragm tube and/or body upon request
- Working temperature differing from +20 °C (+68 °F)
- Other filling liquid, e. g. high temperature oil
- Tongue or groove DIN EN 1092-1 / DIN 2512, ring groove ASME B 16.5 form RJF
- Other nominal sizes (compare page 2) upon request
- Special fitting length
- Capillary line between diaphragm seal and instrument (length limit upon request), or cooling element strongly recommended for medium temperatures >+100 °C (>+212 °F)

In-Line Diaphragm Seal

Dimensional Data, Weight, Minimum Pressure Ranges for Pressure Gauges Dimensional Data mm / inches , Weight kg / lb, Mininum Pressure Ranges for Bourdon tube pressure gauges

Model		DN	PN		b	d	d1	d2	d3	d5	f	^L g ^{± 0,5}	x	MA 1)	Weight (approx.)
		20	16 - 40			19.8 . 78	58 2.28						76 2.99	2.5 bar 30 psi	1.56 3.44
		25	10 100			26.2 1.03	63 2.48					126 4.96	78.5 3.09		2.46 5.42
Pancake type		40	16 - 400			38.5 1.52	85 3.35						89.5 3.52		4.19 9.24
	DIN EN 1092-1		16 - 320			50.7	95						94.5 3.72		3.77 8.31
	Form B2 (PN 16-PN 100)	50	400	bar		2	3.74	_	_	_	_		139.5 5.49		3.92 8.64
51/2 ×	DIN 2526 From E (PN 160-PN 400)	80	16 - 250	-		70.7	5.12					100 3.94	112		6.18
			320 - 400			79.7 3.14							4.41 157		13.62 6.33
			16 - 160										6.18 122		13.96 7.18
		100	250 - 400			99.7 3.93	150 5.91						4.8 167		15.83 7.33
		1"	150 - 2500		-	26.2	63						6.57 78.5	1 bar	16.16 2.41
Do Po	ASME B 16.5 RF	l'	150 - 2500	-		1.03	2.48 82		_	_	_	126 4.96	3.09	15 psi	5.31 4.04
LG		1½"				38.5 1.52							89.5 3.52		8.91 4.43
			300 - 2500		-								94.5		9.77 3.77
-		2"	150 - 1500			50.7 2							3.72 139.5		8.31 3.92
			2500			_							5.49		8.64 6.18
		3"	150 - 1500			79.7	130					100	4.41		13.62
			2500	_		3.14	5.12					3.94	157 6.18		6.33 13.96
		4"	150 - 600	-		99.7	150						122 4.80	_	7.18 15.83
		_	900 - 2500			3.93	.93 5.91						167 6.57		7.33 16.16
Flange type DIN EN 1092-1 From B1		20				19.8 . 78	78 2.28 6.2 68 .03 2.68 8.5 88	75 2.95	105 4.13	50 1.97	1.97 4 x 14 60 .55 2.36 70 2.76 4 x 18 90 .71	126 4.96	72 2.83	2.5 bar 30 psi	3.07 6.77
		25	25 16 - 40			26.2 1.03		85 3.35	115 4.53	60 2.36			77 3.03		4.46 9.83
		40		- - bar	18	38.5		110	110 150 4.33 5.91 125 165	70 2.76 90 3.54			82 3.23		6.55 14.44
			16				102						92		7.44 16.40
		50	40										3.62	1 bar 15 psi	7.54 16.62
,G1/2 ₁			16		20	70.7	400	160	200	124		100 3.94	100		10.73
	D X X	80	40		24	79.7 3.14		160 6.3	200 7.87	124 4.88	8 x 18 . 71	3.94	109 4.29		23.66 11.98
<u>b</u>		100	16		20	99.7	158	180	220	150			122		26.41 13.14
Ø d d 3		100	150	-	14,2	3.93	6.22	7.09 79	8.66 108	5.91	4 x 16 45 .63 1.77 4 x 19		4.8		28.97 2.40
		1"			17,2	26.2 1.03			4.25 124	45 1.77			69.5 2.74	2.5 bar 30 psi	5.29 3.38
			150		17,5			3.50 4.88 98.6 127		. 75	_			7.45 4.27	
		1 ½"				4	3.	3.88	5	65 2.56	.63	.63 4.96	79.5 3.13	-	9.41 6.35
			300		20,6				155 6.10		4 x 22.4				14.00 7.45
-			600		22,4			152		4 x 19			-	16.42 6.00	
		2"	150	lb/	19,1	50.7	02	4.76	5.98	84	.75	9 100	89 3.5		13.23 7.17
			300		22,8		3.62		165 3	3.31	8 x 19				15.81
	ASME B 16.5 RF		600	sq.in.	25,4				6.5		.75	3.94		1 bar 15 psi	8.89 19.60
			150		23,9	79.7		152 5.98	191 7.52	117 4.61	4 x 19 .75 8 x 22.4 .88				10.30 22.71
		3"	300		28,4			168					106 4.17		15.17 33.44
			600		31,8			6.61	8.27			5.51			17.76 39.15
			150		23,9			191 7.52			8 x 19 . 75	100 3.94			14.57 32.12
			300		31,8		99.7 157 3.93 6.18	200	200 10 7.87 216 273	5.71	8 x 22.4 .88 8 x 25.4 1	140	120 4.72		24.21 53.37
			600		38,1			216 8.5							34.26 75.53
Note: also valid for corresponding vac					Щ.										

Note: also valid for corresponding vacuum and vacuum / pressure compound ranges Date for other pressure measuring instruments upon request.

			Ordering Code	e D86 Series									
Item No. Field No.	Code	Description											
1.		•	·										
'	20		Gauge Connection										
	2G	. ,	G 1/2" B (F)										
2.			Process Connection Type										
	PT		Pancake type										
	FT		Flange type										
3.		_	Process Connection										
		Pancake ty	Pancake type (Code: PT)										
			DIN EN 1092-1(PN16~100) ASME B 16.5 RF DIN EN 2526 (PN160~400)										
			· ·										
		Code	DN	PN	Code	NPS	CLASS						
		PTA	20	16~40	PT1	1.5"	150~2500						
		PTB	25	16~400	PT2		150						
		PTC	40		1 12	1.0	300~2500						
		PTD	50	16~320	PT3	2"	150~1500						
		FID	30	400	1 13		2500						
		DTE	80	16~250	DT4	3"	150~1500						
		PTE	00	320~400	PT4	3	2500						
		DTE	400	16-160	DTC	4"	150-600						
		PTF	100	250-400	PT5	4"	900-2500						
		Flange typ	e (Code: FT)										
			DIN EN 1092	2-1		ASME B 16.5 RF							
		Code	DN	PN	Code	NPS	CLASS						
		FTA	20				150						
		FTB	25	16~40	FT1	1"	300~600						
		FTC	40				150						
			50	16	FT2	2"	300						
		FTD		40	┤ ''-		600						
				16	 		150						
		FTF	80	40	FT3		300						
		FTD	100	16	-		600						
		FID	100	10	+	3"	150						
					FT4								
			300										
			600 150										
					FT5	4"	300						
		600											
4.			Diaphragm Material										
	L	ANSI 316L											
5.		Body Mater											
•	L		ANSI 316L SS										
6.	4		Option										
	1		1m SS Remote Capillary										
	6		1.6m SS Remote Capillary 2m SS Remote Capillary										
	3												
			3m SS Remote Capillary										
	4		4m SS Remote Capillary										
	5		5m SS Remote Capillary										
	8 X		8m SS Remote Capillary										
		Others	Others No Armor										
	0 S		SS Armor										
	5		Glycerine / Water Filled (Temperature limits -10 / 120°C)										
	-												
	-		Silicone Filled (Temperature limits -20 / 200°C)										
	-	C Silicone Fille	Silicone Filled (Temperature limits -90 / 100°C)										
	-												
	-												
	F High Temperature oil (Temperature limits -20 / 400°C) G Food compatible fluid												
		O 1 OOU COMP	aupie iluiu										