

# Diaphragm Seal

990.26 with flange and internal diaphragm  
with pressure transmitter

E 06.02.02

Ed.17.01

<b>Design</b>	Diaphragm Seal with flange and internal diaphragm acc.to EN 1092-1 or ASME B 16,5 Pressure transmitter in stainless steel
<b>Type</b>	<b>990.26</b>
<b>Lower body</b>	Flange connection and internal diaphragm acc.to EN 1092-1 or ASME B 16,5
<b>Flange EN 1092-1</b>	DN 15 or DN 20 Sealing face form B1 (B2 in special materials) Pressure rate PN 10 to PN 40
<b>Flange ASME B 16,5</b>	DN 1/2", 3/4" or 1" Sealing face RF 125...250 AA Option RFSF, RJF-groove, small tongue, large tongue Pressure rate 150 or 300 lbs
<b>Material standard</b>	Body of stainless steel 1.4404 (316L) Wetted parts of stainless steel 1.4435 (316L) Special materials see page 2
<b>Level of cleanliness</b>	Oil and grease free per ASTM G93-03 level E (< 550 mg/m <sup>2</sup> )
<b>Working Pressure</b>	90% of full scale range by fluctuating pressure full scale value by short time pressure
<b>Process temperature</b>	Process temperature standard max +200°C Option lowest temperature to max -90°C Option highest temperature to max +400°C Max temperature depending on material and filling media
<b>Ambient temperature</b>	Ambient temperature standard +10+40°C Option lowest temperature to max -40°C Option highest temperature to max +60°C
<b>Cooling/capillary</b>	The pressure instrument must be protected in process temperatures over +200°C with cooling tower or capillary
<b>Filling media</b>	KN 2 silicone oil (standard) temperature -45+300°C KN 17 silicone oil for low temperatures -90+200°C KN 32 silicone oil for high temperatures -25+400°C KN 21 halocarbene for oxygen and chlorine -60+175°C KN 70 silicone free filling -20+200°C KN 59 Neobee M-20 FDA (Food & Pharma) -35+260°C KN 92 white mineral oil FDA (Food & Pharma) -15+260°C
<b>Certificate (option)</b>	EN 10204-3.1 Certificate wetted parts incl. chemical analysis EN 10204-3.1 Certification of class and accuracy EN 10204-3.1 Accuracy calibration values listed EN 10204-3.1 Pressure and stability test EN 10204-3.1 Helium leak test
<b>More options</b>	Mounted TAG-schild with customer numbers Design according to NACE MR 0175 or MR 0103 Origin of wetted parts from EU, Schweiz or USA Flange acc.to Gost 33259, API 6A or JIS B 2220



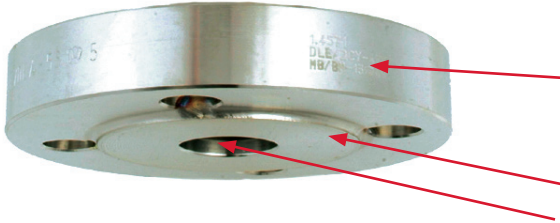
**990.26 DN 15**  
flange EN 1092-1  
pressure transmitter  
S-20

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## Material for body and wetted parts



### Flange body

Standard = stainless steel 1.4404 (316L)

### Wetted parts

Wetted parts channel, internal diaphragm and sealing face  
Standard = stainless steel 1.4435 (316L)

Body stainless steel 1.4404 (316L) Wetted parts	Temperature
Stainless steel 1.4435 (316 L) <b>standard</b>	max +400°C
Stainless steel 1.4541 (321)	max +400°C
Stainless steel 1.4571 (316Ti)	max +400°C
Stainless steel with ECFTE-coating	max +150°C
Stainless steel with PFA-coating	max +260°C
Stainless steel with Gold-plating	max +400°C
Hastelloy C22 (2.4602)	max +260°C
Hastelloy C276 (2.4819)	max +400°C

Body stainless steel 1.4404 (316L) Wetted parts	Temperature
Inconel 600 (2.4816)	max +400°C
Inconel 625 (2.4856)	max +400°C
Incoloy 825 (2.4858)	max +400°C
Monel 400 (2.4360)	max +400°C
Nickel	max +260°C
Titanium (3.7035)	max +150°C
Titanium (3.7235)	max +150°C
Tantalum	max +150°C

Flange + wetted parts	Temperature
Syrafast stål 1.4571 (316Ti)	max +400°C
Duplex 2205 (1.4462)	max +300°C
Superduplex 2507 (1.4410)	max +300°C
Hastelloy C22 (2.4602)	max +260°C
Hastelloy C276 (2.4819)	max +400°C

Flange + wetted parts	Temperature
Incoloy 825 (2.4858)	max +400°C
Monel 400 (2.4360)	max +400°C
Nickel	max +400°C
Titanium (3.7035)	max +400°C
Titanium (3.7235)	max +260°C

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## Pressure transmitters for mounting with diaphragm seal 990.26



### Pressure transmitter S-20

Standard design  
Non-linearity 0,25% BFSL  
Case in stainless steel 316L  
Wetted parts in stainless steel 316L  
Output signal 4-20 mA or 0-10 V  
Connector DIN EN 175301-803 A,  
Circular connector M12x1 or cable outlet IP67 or IP68



### Pressure transmitter IS-3

Ex ATEX design  
Non-linearity 0,25% BFSL  
Case in stainless steel 316L  
Wetted parts in stainless steel 316L  
Output signal 4-20 mA or 0-10 V  
Connector DIN EN 175301-803 A,  
Circular connector M12x1 or cable outlet IP67 or IP68  
Ex ATEX and IECEx II 1/2 G Ex ia IIC T4/T6 Ga/Gb + 1 M1 Ex ia I Ma



### Pressure transmitter F-20

with field case  
Non-linearity 0,25% BFSL  
Case in stainless steel 316L  
Wetted parts in stainless steel 316L  
Output signal 4-20 mA or 0-10 V  
Field case in stainless steel  
Ingress protection IP 67



### Pressure transmitter PGT23.100

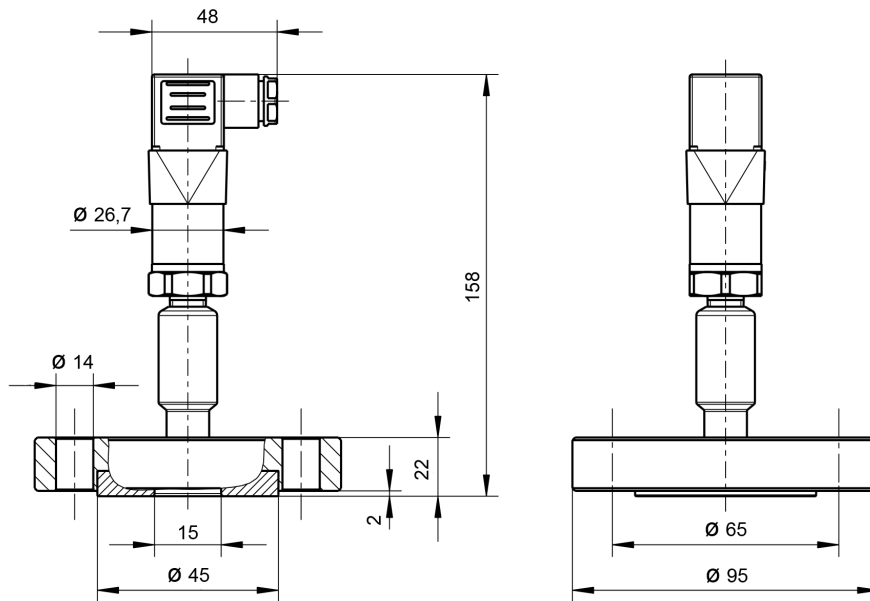
With analogue on-site display, case 100 mm  
Safety version with safety wall behind the scale  
Non-linearity 0,5% BFSL  
Case in stainless steel 316L  
Wetted parts in stainless steel 316L  
Output signal 4-20 mA or 0-10 V  
Option with liquid filled case

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## Pressure transmitter S-20 with diaphragm seal 990.26 DN 15 EN 1092-1 PN 10/40



### Flange EN 1092-1, form B1 DN 15, 20 or 25

x = mounting holes

DN	PN	Dimension mm			Sealing face					Weight kg
		Mb	D	b	d <sub>2</sub>	k	f	d <sub>4</sub>	x	
15	10/40	40	95	22	14	65	2	45	4	1,0
20	10/40	40	105	22	14	75	2	58	4	1,3

### Flange ASME 16,5, RF 125...250 AA DN 1/2", 3/4" or 1"

x = mounting holes

DN	Class	Dimension mm			Sealing face					Weight kg
		Mb	D	b	d <sub>2</sub>	k	f	d <sub>4</sub>	x	
1/2"	150	32	90	22	16	60,5	2	35	4	1,0
	300	40	95	22	16	66,5	2	35	4	1,0
3/4"	150	40	100	22	16	70	2	43	4	1,1
	300	40	120	22	20	82,5	2	43	4	1,6
1"	150	52	110	22	16	79,5	2	51	4	1,4
	300	52	125	22	20	89	2	51	4	1,7

