

Diaphragm Seal

990.34 male threaded welded design
with pressure transmitter

E 06.01.07

Ed.17.01

Design	Diaphragm Seal in compact welded design With pressure transmitter in stainless steel
Type	990.34
Pressure rating	PN 160 for pressure range 0-1 bar to 0-160 bar
Material standard	Upper body of stainless steel 1.4404 (316L) Lower body and connection of stainless steel 1.4404 (316L) Diaphragm of stainless steel 1.4435 (316L) Special material see page 2
Level of cleanliness	Oil and grease free per ASTM G93-03 level E (< 550 mg/m ²)
Process connection	G1/2" male or 1/2"NPT male Option G1/4" or G1" male Option G1/4", G1/2" or G1" female Option 1/4"NPT, 1/2"NPT, 3/4"NPT or 1"NPT male Option 1/4"NPT, 1/2"NPT, 3/4"NPT or 1"NPT female
Working Pressure	90% of full scale range by fluctuating pressure full scale value by short time pressure
Process temperature	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
Ambient temperature	Ambient temperature standard +10+40°C Option lowest temperature to max -40°C Option highest temperature to max +60°C
Cooling/capillary	The pressure instrument must be protected in process temperatures over +200°C with cooling tower or capillary
Filling media	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
Certificate (option)	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
More options	Mounted TAG-schild with customer numbers Design according to NACE MR 0175 or MR 0103 Origen of wetted parts from EU, Schweiz or USA



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Material for upper body and wetted parts

Diaphragm seal 990.34 has a welded design with upper body, lower body och diaphragm.
Standard material for upper body and lower body is stainless steel 1.4404 (316L)
Standard material for the diaphragm is stainless steel 1.4435 (316L)

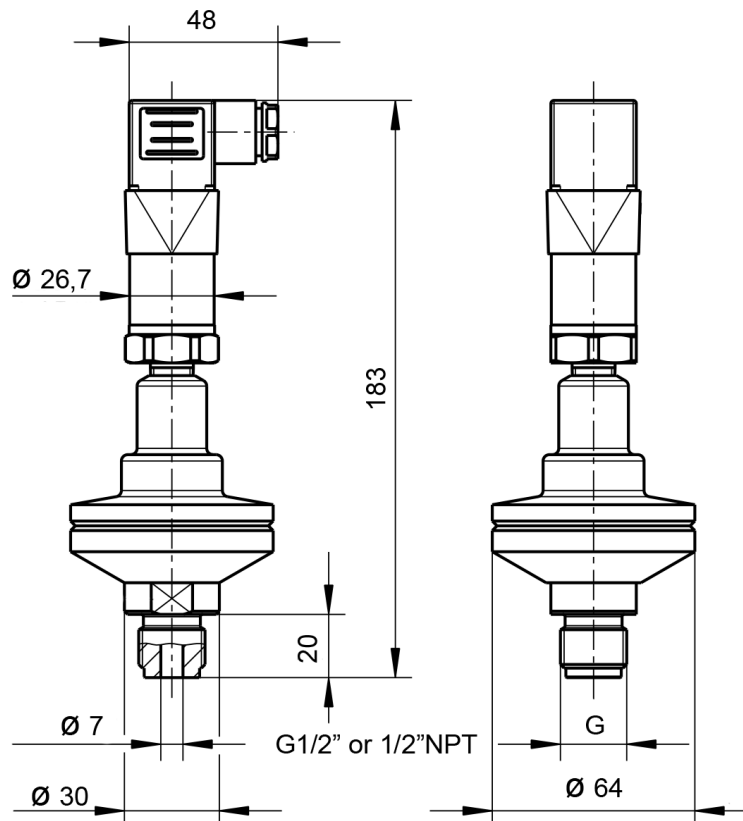


In special materials all parts are in the same material

Lower body and diaphragm = material wetted parts	Temperature
Stainless steel 1.4571 (316Ti)	max +400°C
Stainless steel 1.4466 (urea grade)	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

Lower body and diaphragm = material wetted parts	Temperature
Inconel 600 (2.4816)	max +400°C
Inconel 625 (2.4856)	max +400°C
Incoloy 825 (2.4858)	max +400°C
Titanium (3.7035)	max +400°C
Titanium (3.7235)	max +260°C
Monel 400 (2.4360)	max +400°C

Pressure transmitter type S-20 with connector L-plug DIN EN 175301-803 A



Dimensions refers to 990.34 with pressure rate PN 160 and in material stainless steel
Specified dimensions may be different in other materials or other pressure rates

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Pressure transmitters for mounting with diaphragm seal 990.34



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