

Diaphragm Seal

990.36 with flush diaphragm
with pressure transmitter

E 06.01.08

Ed.19.01

Design	Diaphragm Seal with flush diaphragm with stainless steel pressure transmitter
Type	990.36
Pressure range	Pressure range from 0-10 bar to max 0-400 bar
Connection	Connection with flush diaphragm G 1/2", G 3/4", G 1" or G 1 1/2"
Material	Body of stainless steel 1.4404 (316L) Wetted parts of stainless steel 1.4435 (316L)
Working Pressure	90% of full scale range by fluctuating pressure full scale value by short time pressure
Process temperature	Process temperature standard max +21+80°C Option lowest temperature to max -40°C Option highest temperature to max +200°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
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
Övriga optioner	Silicone free design Diaphragm with protection disc Mounted TAG-schild with customer numbers Design according to NACE MR 0175 or MR 0103 Origen of wetted parts from EU, Schweiz or USA



Option material

Body + wetted parts	Body + wetted parts
Stainless steel 1.4571 (316Ti)	Incoloy 825 (2.4858)
Duplex 2205 (1.4462)	Monel 400 (2.4360)
Superduplex 2507 (1.4410)	Inconel 600 (2.4816)
Hastelloy C22 (2.4602)	Titanium (3.7035) grade 2
Hastelloy C276 (2.4819)	Titanium (3.7235) grade 7

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Pressure transmitter S-20 for diaphragm seal 990.36



Design	Stainless steel pressure transmitter for universal use
Type	S-20
Accuracy	0,25% (BFSL) 0,5% including non-linearity, hysteresis, zero offset and end value deviation
Wetted parts	Wetted parts in stainless steel 316 L
Output signal	4-20 mA (2-wire) or 0-10 V (3-wire) Option: 0-5 V, 1-5 V, 0-5-4,5 V (RAT) or 20-4 mA
Power supply	8-36 VDC (12-36 VDC in 0-10 V)
Temperature range	Process temperature -30+100°C Ambient temperature -30+100°C Compensated range 0+80°C
Temperature influence	≤ 0,2%/10K for zeropoint, ≤ 0,2%/10K for spann Pressure range < 0,4 = ≤ 0,4%/10K for zeropoint
Permissible load	4-20 mA $RA[\text{Ohm}] = (UB[\text{V}] - 7,5 \text{ V}) / 0,023 \text{ A}$ 0-10 V $RA \geq \max 10 \text{ V} / 1 \text{ mA}$
Setting time (10-90%)	≤ 3 ms with 4-20 mA, ≤ 2 ms with 0-10 V (1 ms as option)
Long-term drift	≤ 0,1% of end value each year
Service life	100 million load cycles
Overpressure limits	3 times overpressure safe in pressure range max 6 bar 2 times overpressure safe in pressure range max 6 bar
Elanslutning	Angular connector DIN EN 175301-803 A (IP 65) Circular connector M12x1 (IP 67) Cable entry IP 67 or IP 68
Electrical protective	Short-circuit resistance, reverse polarity protection, resistance to overvoltage and insulation voltage
Transmission fluid	Synthetic oil Option food-compatible transmission fluid Option oxygen, oil and grease free Option silicone free filling
Shock resistance	Mechanical shock 500 g
Vibration resistance	Vibration safe 20 g
CE-mark	PED 97/23/EG EMC 2004/108/EEC, EN 61326, EM 30 V/m
RoHs	RoHs-conformity 2011/65/EU
Pressure range	0-10 bar, 0-16 bar, 0-25 bar, 0-40 bar, 0-60 bar 0-100 bar, 0-160 bar, 0-250 bar, 0-400 bar, 0-600 bar





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990.36 med flush diaphragm Stainless steel 1.4435 (316L) Process temperature max +150°C Connection G1/2" or G1" pressure transmitter S-20 output signal 4-20 mA (2-wire) Cable contact L-plugg Filling KN 2 Silicone		
	G1/2" male	G1" male
Pressure range	Code	Code
0-10 bar	40261008	40261108
0-25 bar	40261013	40261113
0-60 bar	40261017	40261117
0-100 bar	40261019	40261119
0-250 bar	40261022	40261122
0-400 bar	40261024	40261124

Silicone free design

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	G1/2" male	G1" male
Pressure range	Code	Code
0-10 bar	40261208	40261308
0-25 bar	40261213	40261313
0-60 bar	40261217	40261317
0-100 bar	40261219	40261319
0-250 bar	40261222	40261322
0-400 bar	40261224	40261324