



# DMK 331P

## Industrial Pressure Transmitter

Pressure Ports With Flush Welded Stainless Steel Diaphragm

accuracy according to IEC 60770:  
0.5 % FSO

### Nominal pressure

from 0 ... 60 bar up to 0 ... 400 bar

### Output signals

2-wire: 4 ... 20 mA

3-wire: 0 ... 20 mA / 0 ... 10 V

others on request

### Special characteristics

- ▶ suited for viscous and pasty media

### Optional versions

- ▶ IS-version  
Ex ia = intrinsically safe for gases and dusts
- ▶ SIL 2  
according to IEC 61508 / IEC 61511
- ▶ food compatible filling fluid with FDA approval
- ▶ cooling element for media temperatures up to 300 °C
- ▶ customer specific versions

The pressure transmitter DMK 331P is suitable for measuring the pressure of viscous and pasty media, where a totally flush pressure port is required.

As on all industrial pressure transmitters made by BD SENSORS, you may choose between various electrical and mechanical connections also on DMK 331P.

### Preferred areas of use are



Plant and Machine Engineering



Food Industry

### Preferred used for



Viscous and Pasty Media



| Input pressure range          |       |     |     |     |     |     |
|-------------------------------|-------|-----|-----|-----|-----|-----|
| Nominal pressure gauge / abs. | [bar] | 60  | 100 | 160 | 250 | 400 |
| Overpressure                  | [bar] | 100 | 100 | 200 | 400 | 400 |
| Burst pressure $\geq$         | [bar] | 120 | 180 | 300 | 500 | 750 |

| Output signal / Supply |                                                                                                       |                                              |
|------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Standard               | 2-wire: 4 ... 20 mA / $V_S = 8 \dots 32 \text{ VDC}$                                                  | SIL-version: $V_S = 14 \dots 28 \text{ VDC}$ |
| Option IS-protection   | 2-wire: 4 ... 20 mA / $V_S = 10 \dots 28 \text{ VDC}$                                                 | SIL-version: $V_S = 14 \dots 28 \text{ VDC}$ |
| Options 3-wire         | 3-wire: 0 ... 20 mA / $V_S = 14 \dots 30 \text{ VDC}$<br>0 ... 10 V / $V_S = 14 \dots 30 \text{ VDC}$ |                                              |

| Performance           |                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy <sup>1</sup> | $\leq \pm 0.5 \% \text{ FSO}$                                                                                                                                           |
| Permissible load      | current 2-wire: $R_{\max} = [(V_S - V_{S \min}) / 0.02 \text{ A}] \Omega$<br>current 3-wire: $R_{\max} = 500 \Omega$<br>voltage 3-wire: $R_{\min} = 10 \text{ k}\Omega$ |
| Influence effects     | supply: 0.05 % FSO / 10 V<br>load: 0.05 % FSO / k $\Omega$                                                                                                              |
| Long term stability   | $\leq \pm 0.3 \% \text{ FSO} / \text{year at reference conditions}$                                                                                                     |
| Response time         | 2-wire: $\leq 10 \text{ msec}$<br>3-wire: $\leq 3 \text{ msec}$                                                                                                         |

<sup>1</sup> accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

| Thermal effects (Offset and Span) <sup>2</sup> / Permissible temperatures |                                                                                                                                                                                     |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal error                                                             | $\leq \pm 0.2 \% \text{ FSO} / 10 \text{ K}$                                                                                                                                        |
| in compensated range                                                      | -20 ... 85 °C                                                                                                                                                                       |
| Permissible temperatures <sup>3</sup>                                     | medium: -40 ... 125 °C for filling fluid silicon oil<br>-10 ... 125 °C for filling fluid food compatible oil<br>electronics / environment: -40 ... 85 °C<br>storage: -40 ... 100 °C |
| Permissible temperature medium for cooling element 300 °C                 | filling fluid silicon oil overpressure: -40 ... 300 °C vacuum: -40 ... 150 °C<br>filling fluid food compatible oil overpressure: -10 ... 250 °C vacuum: -10 ... 150 °C              |

<sup>2</sup> an optional cooling element can influence thermal effects for offset and span depending on installation position and filling conditions.  
<sup>3</sup> max. temperature of the medium for overpressure > 0 bar: 150 °C for 60 minutes with a max. environmental temperature of 50 °C

| Electrical protection         |                                             |
|-------------------------------|---------------------------------------------|
| Short-circuit protection      | permanent                                   |
| Reverse polarity protection   | no damage, but also no function             |
| Electromagnetic compatibility | emission and immunity according to EN 61326 |

| Mechanical stability |                                                         |
|----------------------|---------------------------------------------------------|
| Vibration            | 20 g RMS (25 ... 2000 Hz) according to DIN EN 60068-2-6 |
| Shock                | 500 g / 1 msec according to DIN EN 60068-2-27           |

| Filling fluids |                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Standard       | silicon oil                                                                                                                           |
| Options        | food compatible oil (with FDA approval)<br>(Mobil SHC Cibus 32; Category Code: H1; NSF Registration No.: 141500)<br>others on request |

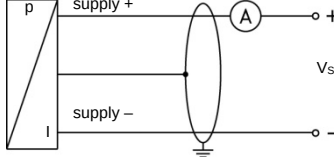
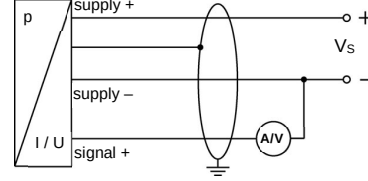
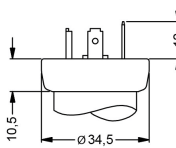
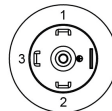
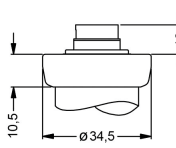
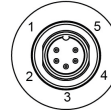
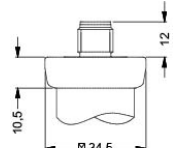
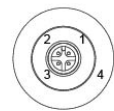
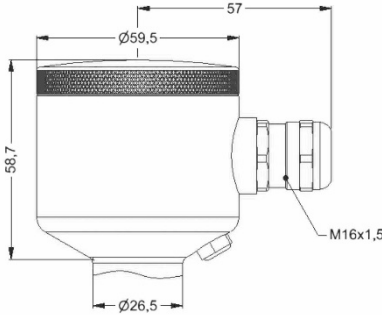
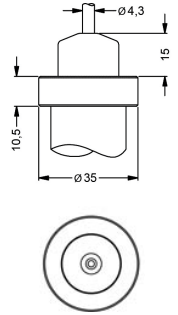
  

| Materials            |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure port        | stainless steel 1.4404 (316 L)                                                                                                                                                          |
| Housing              | stainless steel 1.4404 (316 L)                                                                                                                                                          |
| Option field housing | stainless steel 1.4301 (304) with cable gland 16x 1.5 brass, nickel plated (clamping range 2...8 mm)                                                                                    |
| Seals (media wetted) | standard: FKM (recommended for medium temperatures $\leq 200 \text{ }^\circ\text{C}$ )<br>option: FFKM <sup>4</sup> (recommended for medium temperatures > 200 °C)<br>others on request |
| Diaphragm            | stainless steel 1.4435 (316 L)                                                                                                                                                          |
| Media wetted parts   | pressure port, seals, diaphragm                                                                                                                                                         |

<sup>4</sup> for pressure ranges  $\leq 100 \text{ bar}$

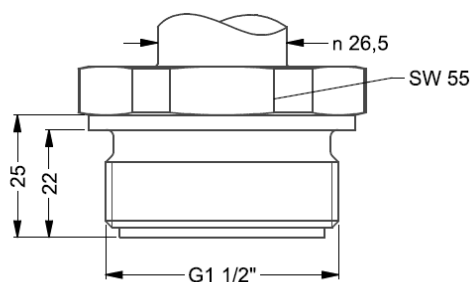
  

| Explosion protection (only for 4 ... 20 mA / 2-wire) |                                                                                                                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals DX9-DMK 331P                               | IBExU10ATEX1122 X<br>zone 0: II 1G Ex ia IIC T4 Ga<br>zone 20: II 1D Ex ia IIIC T 135 °C Da                                                                                 |
| Safety technical maximum values                      | $U_i = 28 \text{ V}$ , $I_i = 93 \text{ mA}$ , $P_i = 660 \text{ mW}$ , $C_i \approx 0 \text{ nF}$ , $L_i \approx 0 \text{ }\mu\text{H}$                                    |
| Ambient temperature range                            | in zone 0: -20 ... 60 °C with $p_{\text{atm}}$ 0.8 bar up to 1.1 bar<br>in zone 1 or higher: -20 ... 70 °C                                                                  |
| Connecting cables (by factory)                       | cable capacitance: signal line/shield also signal line/signal line: 160 pF/m<br>cable inductance: signal line/shield also signal line/signal line: 1 $\mu\text{H}/\text{m}$ |

| Miscellaneous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |                    |                                                                                    |                                                                                      |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|
| Option SIL 2 <sup>5</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | according to IEC 61508 / IEC 61511                                                       |                    |                                                                                    |                                                                                      |                           |
| Current consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | signal output current: max. 25 mA<br>signal output voltage: max. 7 mA                    |                    |                                                                                    |                                                                                      |                           |
| Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | min. 200 g (depending on process connection)                                             |                    |                                                                                    |                                                                                      |                           |
| Installation position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | any (standard calibration in a vertical position with the pressure port connection down) |                    |                                                                                    |                                                                                      |                           |
| Operational life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | > 100 x 10 <sup>6</sup> pressure cycles                                                  |                    |                                                                                    |                                                                                      |                           |
| CE-conformity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EMC Directive: 2014/30/EU                                                                |                    | Pressure Equipment Directive: 2014/68/EU (module A) <sup>6</sup>                   |                                                                                      |                           |
| ATEX Directive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2014/34/EU                                                                               |                    |                                                                                    |                                                                                      |                           |
| <sup>5</sup> only for 4 ... 20 mA / 2-wire<br><sup>6</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |                    |                                                                                    |                                                                                      |                           |
| Wiring diagrams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |                    |                                                                                    |                                                                                      |                           |
| 2-wire-system (current)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |                    | 3-wire-system (current / voltage)                                                  |                                                                                      |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          |                    |  |                                                                                      |                           |
| Pin configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |                    |                                                                                    |                                                                                      |                           |
| Electrical connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ISO 4400                                                                                 | Binder 723 (5-pin) | M12x1 / metal (4-pin)                                                              | field housing                                                                        | cable colours (DIN 47100) |
| Supply +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                        | 3                  | 1                                                                                  | IN +                                                                                 | wh (white)                |
| Supply -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                        | 4                  | 2                                                                                  | IN -                                                                                 | bn (brown)                |
| Signal + (only for 3-wire)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                                                                                        | 1                  | 3                                                                                  | OUT +                                                                                | gn (green)                |
| Shield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ground pin                                                                               | 5                  | 4                                                                                  |  | ye/gn (yellow / green)    |
| Electrical connection (dimensions in mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |                    |                                                                                    |                                                                                      |                           |
| <div><div><div><b>standard</b></div><div><br/><br/>ISO 4400 (IP 65)</div></div><div><div><b>option</b></div><div><br/><br/>Binder Series 723 5-pin (IP 67)</div><div><br/><br/>M12x1 4-pin (IP 67)</div></div><div><br/>field housing (IP 67)</div><div><br/>cable outlet with PVC cable (IP 67) <sup>7</sup></div></div> |                                                                                          |                    |                                                                                    |                                                                                      |                           |
| ⇒ universal field housing stainless steel 1.4404 (316 L) with cable gland M20x1.5 (ordering code 880) and other versions on request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |                    |                                                                                    |                                                                                      |                           |
| <sup>7</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |                    |                                                                                    |                                                                                      |                           |

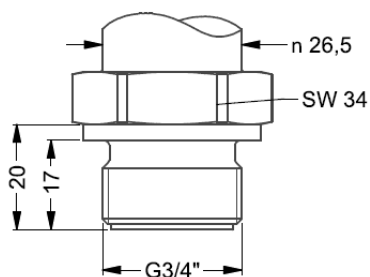
## Mechanical connection (dimensions in mm)

### standard

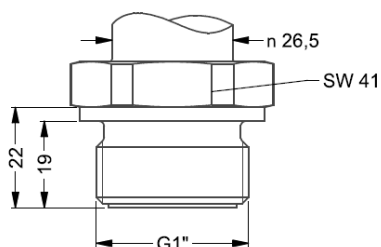


G1 1/2" flush DIN 3852

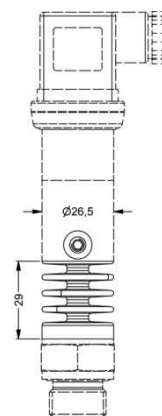
### option



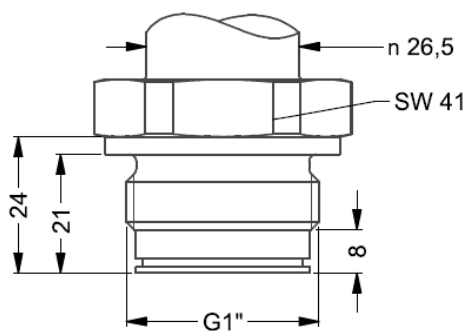
G3/4" flush DIN 3852



G1" flush DIN 3852



cooling element  
300 °C<sup>8</sup>



G1 1/2" flush  
with radial o-ring

- ⇒ SIL- and SIL-Ex version: total length increases by 26.5 mm!
- ⇒ metric threads and other versions on request

<sup>8</sup> possible for nominal pressure ranges  $P_N \leq 160$  bar

## Ordering code DMK 331P

3.4.2020

DMK 331P

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| Pressure                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
|------------------------------------------------------------------|---|---|---|---|---|---|---|--|--|--|--|--|--|----|-----|
| Gauge                                                            | 5 | 0 | 5 |   |   |   |   |  |  |  |  |  |  |    |     |
| Absolute (temperature max. 70°C)                                 | 5 | 0 | 6 |   |   |   |   |  |  |  |  |  |  |    |     |
| Input [bar]                                                      |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| 0 ... 60                                                         |   |   |   | 6 | 0 | 0 | 2 |  |  |  |  |  |  |    |     |
| 0 ... 100                                                        |   |   |   | 1 | 0 | 0 | 3 |  |  |  |  |  |  |    |     |
| 0 ... 160                                                        |   |   |   | 1 | 6 | 0 | 3 |  |  |  |  |  |  |    |     |
| 0 ... 250                                                        |   |   |   | 2 | 5 | 0 | 3 |  |  |  |  |  |  |    |     |
| 0 ... 400                                                        |   |   |   | 4 | 0 | 0 | 3 |  |  |  |  |  |  |    |     |
| Customer                                                         |   |   |   | 9 | 9 | 9 | 9 |  |  |  |  |  |  |    |     |
| Output                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| 4...20 mA / 2-wire                                               |   |   |   |   |   |   |   |  |  |  |  |  |  | 1  |     |
| 0...20 mA / 3-wire                                               |   |   |   |   |   |   |   |  |  |  |  |  |  | 2  |     |
| 0...10 V / 3-wire                                                |   |   |   |   |   |   |   |  |  |  |  |  |  | 3  |     |
| 0...5 V / 3-wire                                                 |   |   |   |   |   |   |   |  |  |  |  |  |  | 4  |     |
| 4...20 mA / 3-wire                                               |   |   |   |   |   |   |   |  |  |  |  |  |  | 7  |     |
| Intrinsic safety 4...20 mA / 2-wire                              |   |   |   |   |   |   |   |  |  |  |  |  |  | E  |     |
| SIL2, 4 ... 20 mA / 2-wire                                       |   |   |   |   |   |   |   |  |  |  |  |  |  | 1S |     |
| SIL2, Intrinsic safety, 4 ... 20 mA / 2-wire                     |   |   |   |   |   |   |   |  |  |  |  |  |  | ES |     |
| Customer                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  | 9  |     |
| Accuracy                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| 1 %                                                              |   |   |   |   |   |   |   |  |  |  |  |  |  | 8  |     |
| 0,5 % (standard)                                                 |   |   |   |   |   |   |   |  |  |  |  |  |  | 5  |     |
| 1 % including Calibration Certificate                            |   |   |   |   |   |   |   |  |  |  |  |  |  | U  |     |
| 0,5 % including Calibration Certificate                          |   |   |   |   |   |   |   |  |  |  |  |  |  | T  |     |
| Table of measured values for accuracy 0,5 %                      |   |   |   |   |   |   |   |  |  |  |  |  |  | N  |     |
| Customer                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  | 9  |     |
| Electrical connection                                            |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| Connector DIN 43650 (ISO 4400) (IP 65)                           |   |   |   |   |   |   |   |  |  |  |  |  |  | 1  | 0 0 |
| Connector Binder 723 5-pin (IP 67)                               |   |   |   |   |   |   |   |  |  |  |  |  |  | 2  | 0 0 |
| Cable gland PG7 / cable length specify (IP 67)                   |   |   |   |   |   |   |   |  |  |  |  |  |  | 4  | 0 0 |
| + PVC cable / 1 m                                                |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| Cable outlet, cable with ventilation tube (IP68)                 |   |   |   |   |   |   |   |  |  |  |  |  |  | T  | R 0 |
| + PVC cable / 1 m                                                |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| Connector Buccaneer (IP 68)                                      |   |   |   |   |   |   |   |  |  |  |  |  |  | 5  | 0 0 |
| Field housing stainless steel, cable gland M16 x 1,5 (IP 67)     |   |   |   |   |   |   |   |  |  |  |  |  |  | 8  | 0 0 |
| Field housing stainless steel, cable gland M20 x 1,5 (IP 67)     |   |   |   |   |   |   |   |  |  |  |  |  |  | 8  | 8 0 |
| Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67) |   |   |   |   |   |   |   |  |  |  |  |  |  | E  | 0 0 |
| Connector M12 x 1, 4-pin (IP 67)                                 |   |   |   |   |   |   |   |  |  |  |  |  |  | M  | 0 0 |
| Connector M12 x 1, 4-pin (IP 67) - metal                         |   |   |   |   |   |   |   |  |  |  |  |  |  | M  | 1 0 |
| Customer                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  | 9  | 9 9 |
| Mechanical connection                                            |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| G 1/2" DIN 3852 flush diaphragm                                  |   |   |   |   |   |   |   |  |  |  |  |  |  | Z  | 0 0 |
| M 20 x 1,5 DIN 3852 flush diaphragm                              |   |   |   |   |   |   |   |  |  |  |  |  |  | D  | 0 4 |
| G 3/4" DIN 3852 flush diaphragm                                  |   |   |   |   |   |   |   |  |  |  |  |  |  | Z  | 3 0 |
| G 1" DIN 3852 flush diaphragm                                    |   |   |   |   |   |   |   |  |  |  |  |  |  | Z  | 3 1 |
| G 1/2" DIN 3852 with rad. o-ring and flush diaphragm             |   |   |   |   |   |   |   |  |  |  |  |  |  | Z  | 6 1 |
| G 1 1/2" DIN 3852 flush diaphragm                                |   |   |   |   |   |   |   |  |  |  |  |  |  | Z  | 3 3 |
| G 1" DIN 3852 2x o-ring flush diaphragm                          |   |   |   |   |   |   |   |  |  |  |  |  |  | Z  | 5 7 |
| Customer                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  | 9  | 9 9 |
| Diaphragm                                                        |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| Stainless steel 1.4435 (316 L)                                   |   |   |   |   |   |   |   |  |  |  |  |  |  | 1  |     |
| Customer                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  | 9  |     |
| Seals                                                            |   |   |   |   |   |   |   |  |  |  |  |  |  |    |     |
| Viton (FKM) (P <sub>N</sub> < 100 bar)                           |   |   |   |   |   |   |   |  |  |  |  |  |  | 1  |     |
| EPDM (P <sub>N</sub> < 160 bar)                                  |   |   |   |   |   |   |   |  |  |  |  |  |  | 3  |     |
| NBR (P <sub>N</sub> > 100 bar)                                   |   |   |   |   |   |   |   |  |  |  |  |  |  | 5  |     |
| FFKM (P <sub>N</sub> ≤ 100 bar)                                  |   |   |   |   |   |   |   |  |  |  |  |  |  | 7  |     |
| Customer                                                         |   |   |   |   |   |   |   |  |  |  |  |  |  | 9  |     |



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The company BD SENSORS s.r.o. is certified by TÜV SÜD Czech according to the standard ISO 9001.

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info@bdsensors.cz



| Filling Fluids                                                                        |   |   |   |  |
|---------------------------------------------------------------------------------------|---|---|---|--|
| Silicone oil                                                                          | 1 |   |   |  |
| Edible oil for foodstuff industry (temperature max. 150°C)                            | 2 |   |   |  |
| Customer                                                                              | 9 |   |   |  |
| Special version                                                                       |   |   |   |  |
| Standard                                                                              | 0 | 0 | 0 |  |
| With cooling element from 125°C up to 150°C                                           | 1 | 5 | 0 |  |
| With cooling element from 150°C up to 300°C ( $P_N \leq 70$ bar max. 200°C permanent) | 2 | 0 | 0 |  |
| Customer                                                                              | 9 | 9 | 9 |  |
| 3.1 Material certificate (membrane + pressure port)                                   |   |   |   |  |
| Custom temperature compensation (max. 70 bar and 200 °C)                              |   |   |   |  |
|                                                                                       |   |   |   |  |

0,...without additional charge

On request...in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data sheet.

BD SENSORS reserves the right to change sensor specifications without further notice.



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The company BD SENSORS s.r.o. is certified by TÜV SÜD Czech according to the standard ISO 9001.

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