



# Application and construction

The APR-2000ALW transmitter is applicable to the measurement of differential pressure of gases, vapours and liquids. The active element is a piezoresistant silicon sensor separated from the medium by separating diaphragms and a specially selected type of manometric fluid. The special design of the active sensing element ensures that it is able to withstand pressure surges and overloads of up to 250/320/420 bar. The casing is made of aluminium alloy cast or 316SS stainles steel, degree of protection IP66/IP67. The design of the casing enables the use of a local display, rotation of the display, rotation of the casing by 0-340° relative to the sensor, and a choice of cable direction.

#### Communication and configuration

The communication standard for data interchange with the The data interchange with the transmitter enables users to: transmitter is the Hart protocol.

Communication with the transmitter is carried out with:

- a KAP-03, KAP-03Ex communicator
- some other Hart type communicators,(\*)
- a PC using an HART/USB/Bluetooth converter and Raport 2 configuration software.
- (\*) .eddl files available on www.aplisens.com.

- ° identify the transmitter
- ° configure the output parameters:
- measurement units and the values of the start points and end points at the measurement range
- damping time constant
- conversion characteristic (inversion, user's non-linear characteristic)
- read the currently measured pressure value of the output current and the percentage output control level
- force an output current with a set value
- calibrate the transmitter in relation to a model pressure

#### Installation

The transmitter with P or PN type process connection is not heavy, so can be installed without additional mounting bracket on application. For fitting in any desired position we recommend an universal Aplisens mounting bracket for 2" pipe (AL mounting bracket, see page IV/ 5). The version with C type process connections can be fitted directly to a 3- or 5- valve manifold. We recommend factory-mounted transmitters with VM type valve manifold (page IV/ 2). A transmitter without a valve manifold can be fitted in any position on a 2" pipe or on a wall using the C-2" mounting bracket (page IV/5). When the special process connections are required for the measurement of specific media levels in closed tanks (e.g. in the sugar and chemical industries) the transmitter is fitted with an Aplisens diaphragm seal. Sets of differential pressure transmitters with diaphragm seals are described in detail in the further part of the catalogue.

# Measuring ranges

| (FSO)         7 bar         (700 kPa)         10:1           2         016 bar *         (07 MPa)         7 bar         (700 kPa)         10:1           2         016 bar *         (01,6 MPa)         1,6 bar         (160 kPa)         10:1           3         02,5 bar         (0250 kPa)         0,2 bar         (20 kPa)         12,5:1           4         01 bar *         (0100 kPa)         50 mbar         (5k Pa)         20:1           5         00,25 bar *         (025 kPa)         10 mbar         (1k Pa)         25:1           6         -0,50,5 bar *         (-5050 kPa)         0,1 bar         (10 kPa)         10:1           7         -100100 mbar *         (-1010 kPa)         10 mbar         (1 kPa)         20:1           8         -570 mbar *         (-0,57 kPa)         4 mbar         (0,4 kPa)         18:1           9         -2525 mbar *         (-2,52,5 kPa)         2 mbar         (0,2 kPa)         25:1         C-type: 200 bar (10 bar for PED version); P-type: 200 bar (10 bar for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                |                   |         | -            | -                                       |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|-------------------|---------|--------------|-----------------------------------------|----------------------------------------------------------|
| 1       070 bar       (07 MPa)       7 bar       (700 kPa)       10:1         2       016 bar *       (01,6 MPa)       1,6 bar       100 kPa)       10:1         3       02,5 bar       (0250 kPa)       0,2 bar       (20 kPa)       12,5:1         4       01 bar *       (0100 kPa)       50 mbar       (5k Pa)       20:1         5       00,25 bar *       (025 kPa)       10 mbar       (1k Pa)       25:1         6       -0,50,5 bar *       (-5050 kPa)       0,1 bar       (10 kPa)       10:1         7       -100100 mbar *       (-1010 kPa)       10 mbar       11 kPa)       20:1         8       -570 mbar *       (-0,57 kPa)       4 mbar       (0,4 kPa)       18:1         9       -2525 mbar *       (-2,52,5 kPa)       2 mbar       (0,2 kPa)       25:1       C-type: 200 bar (10 bar for PED version); P-type: 40 bar (10 bar for PED version); P-type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | lo. |                | Minimum set range |         | Rangeability | Overpressure limit/ static pressure lim |                                                          |
| 2       016 bar *       (01,6 MPa)       1,6 bar       (160 kPa)       10:1         3       02,5 bar       (0250 kPa)       0,2 bar       (20 kPa)       12,5:1         4       01 bar *       (0100 kPa)       50 mbar       (5k Pa)       20:1         5       00,25 bar *       (025 kPa)       10 mbar       (1k Pa)       25:1         6       -0,50,5 bar *       (-5050 kPa)       0,1 bar       (10 kPa)       10:1         7       -100100 mbar *       (-1010 kPa)       10 mbar       (1 kPa)       20:1         8       -570 mbar *       (-0,57 kPa)       4 mbar       (0,4 kPa)       18:1         9       -2525 mbar *       (-2,52,5 kPa)       2 mbar       (0,2 kPa)       25:1       C-type: 200 bar (10 bar for PED version); P-type: 200 bar (10 b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | (FSO           | )                 |         |              |                                         |                                                          |
| 3         02,5 bar         (0250 kPa)         0,2 bar         (20 kPa)         12,5:1           4         01 bar *         (0100 kPa)         50 mbar         (5k Pa)         20:1         C-type: 250 / 320 / 420 bar           5         00,25 bar *         (025 kPa)         10 mbar         (1k Pa)         25:1         P-type: 40 bar (for range no. 1: 70bar           6         -0,50,5 bar *         (-5050 kPa)         0,1 bar         (10 kPa)         10:1           7         -100100 mbar *         (-1010 kPa)         10 mbar         (1 kPa)         20:1           8         -570 mbar *         (-0,57 kPa)         4 mbar         (0,4 kPa)         18:1           9         -2525 mbar *         (-2,52,5 kPa)         2 mbar         (0,2 kPa)         25:1         C-type: 200 bar (10 bar for PED version); P-type: 40 bar (10 ba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1   | 070 bar        | (07 MPa)          | 7 bar   | (700 kPa)    | 10:1                                    |                                                          |
| 4       01 bar *       (0100 kPa)       50 mbar       (5k Pa)       20:1       C-type: 250 / 320 / 420 bar         5       00,25 bar *       (025 kPa)       10 mbar       (1k Pa)       25:1       P-type: 40 bar (for range no. 1: 70bar)         6       -0,50,5 bar *       (-1010 kPa)       0,1 bar       (10 kPa)       10:1         7       -100100 mbar *       (-1010 kPa)       10 mbar       (1 kPa)       20:1         8       -570 mbar *       (-0,57 kPa)       4 mbar       (0,4 kPa)       18:1         9       -2525 mbar *       (-2,52,5 kPa)       2 mbar       (0,2 kPa)       25:1       C-type: 200 bar (10 bar for PED version); P-type: 40 bar                                                                                                                                                                                                                                                                                                                                                                                                                            | 2   | 016 bar *      | (01,6 MPa)        | 1,6 bar | (160 kPa)    | 10:1                                    |                                                          |
| 4       01 bar       (0100 kr a)       30 mbar       (0.kr a)       20.1       (250 bar for PED version)         5       00,25 bar *       (025 kPa)       10 mbar       (1k Pa)       25:1       P-type: 40 bar (for range no. 1: 70bar         6       -0,50,5 bar *       (-5050 kPa)       0,1 bar       (10 kPa)       10:1         7       -100100 mbar *       (-1010 kPa)       10 mbar       (1 kPa)       20:1         8       -570 mbar *       (-0,57 kPa)       4 mbar       (0,4 kPa)       18:1         9       -2525 mbar *       (-2,52,5 kPa)       2 mbar       (0,2 kPa)       25:1       C-type: 200 bar (10 bar for PED version); P-type: 40 bar (1                                                                                                                                                                                                                                                                                                                                                                                                                            | 3   | 02,5 bar       | (0250 kPa)        | 0,2 bar | (20 kPa)     | 12,5:1                                  |                                                          |
| 5       00,25 bar *       (025 kPa)       10 mbar       (1k Pa)       25:1       P-type: 40 bar (for range no. 1: 70bar)         6       -0,50,5 bar *       (-5050 kPa)       0,1 bar       (10 kPa)       10:1         7       -100100 mbar *       (-1010 kPa)       10 mbar       (1 kPa)       20:1         8       -570 mbar *       (-0,57 kPa)       4 mbar       (0,4 kPa)       18:1         9       -2525 mbar *       (-2,52,5 kPa)       2 mbar       (0,2 kPa)       25:1       C-type: 200 bar (10 bar for PED version); P-type: 40                                                                                                                                                                                                                                                                                                                                      | 4   | 01 bar *       | (0100 kPa)        | 50 mbar | (5k Pa)      | 20:1                                    |                                                          |
| 7         -100100 mbar *         (-1010 kPa)         10 mbar         (1 kPa)         20:1           8         -570 mbar *         (-0,57 kPa)         4 mbar         (0,4 kPa)         18:1           9         -2525 mbar *         (-2,52,5 kPa)         2 mbar         (0,2 kPa)         25:1         C-type: 200 bar (10 bar for PED version); P-ty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5   | 00,25 bar *    | (025 kPa)         | 10 mbar | (1k Pa)      | 25:1                                    | P-type: 40 bar (for range no. 1: 70bar)                  |
| 8         -570 mbar *         (-0,57 kPa)         4 mbar         (0,4 kPa)         18:1           9         -2525 mbar *         (-2,52,5 kPa)         2 mbar         (0,2 kPa)         25:1         C-type: 200 bar (10 bar for PED version); P-type: 2                                                                             | 6   | -0,50,5 bar *  | (-5050 kPa)       | 0,1 bar | (10 kPa)     | 10:1                                    |                                                          |
| 9         -2525 mbar *         (-2,52,5 kPa)         2 mbar         (0,2 kPa)         25:1         C-type: 200 bar (10 bar for PED version); P-type: 200 bar | 7   | -100100 mbar * | (-10…10 kPa)      | 10 mbar | (1 kPa)      | 20:1                                    | ]                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8   | -570 mbar *    | (-0,57 kPa)       | 4 mbar  | (0,4 kPa)    | 18:1                                    |                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9   | -2525 mbar *   | (-2,52,5 kPa)     | 2 mbar  | (0,2 kPa)    | 25:1                                    | C-type: 200 bar (10 bar for PED version); P-type: 40 bar |
| $10 -77 \text{ mbar}^{\circ}$ (-700700 Pa) 1 mbar (0,1 kPa) 14:1 20 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10  | -77 mbar **    | (-700700 Pa)      | 1 mbar  | (0,1 kPa)    | 14:1                                    | 20 bar                                                   |

\* available also in HS version \*\* available only in HS version

HS version with Exd certificate available from Q3/2016

# Technical data

| Metrolog                          | ical parameters                                 |
|-----------------------------------|-------------------------------------------------|
| Accuracy                          | $\leq$ ±0,075% of the calibrated range          |
|                                   | $(\leq \pm 0,1\%$ for range no. 10)             |
| Special vers                      | sion: $\leq \pm 0,05\%$ of the calibrated range |
| Long term stability               | $\leq$ accuracy for 3 years                     |
| (for the nominal measuring range) | $\leq$ 2 x accuracy for 5 years                 |
|                                   | HS version: $\leq$ accuracy for 6 years         |
| Thermal error < ±0,0              | 5% (FSO) / 10°C for ranges no. 1 - 9            |
|                                   | 0,08% (FSO) / 10°C for ranges no. 10            |
| max. ±0,25% (FS                   | SO) in the whole compensation range             |
| special version for ranges no     | o 1-9:                                          |
|                                   | $\le \pm 0,03\%$ (FSO) / 10°C                   |
| max. ±0,1% (FS                    | SO) in the whole compensation range             |
| Thermal compensation rar          | <b>-2580°C</b>                                  |
| Zero shift error for static p     | ressure                                         |
| 0,01% (FSO)                       | / 10 bar for ranges no. 3, 4, 5, 6, 7, 9        |
|                                   | 0,03% (FSO) / 10 bar for range no. 8            |
| 0,0                               | 6% (FSO) / 10 bar for ranges no. 1, 2           |
| 0,01% (FSO) / 10                  | bar for ranges no. 2, 8 in HS version           |
|                                   | 0,02% (FSO) / 10 bar for range no. 10           |
|                                   | onditions of static pressure can elimi-         |
| nate this error.                  |                                                 |
| Response time                     | 16480ms (programmable)                          |
| Additional electronic damp        | <b>bing</b> 060 s                               |
| Error due to supply voltage       | e changes 0,002% (FSO) / V                      |

| ii uutu                               |                                                   |                                                  |
|---------------------------------------|---------------------------------------------------|--------------------------------------------------|
| E                                     | lectrical parameters                              | i                                                |
| Power supply:                         | Safety (SIL2) and MID ve<br>(Ex ia:10,528 VDC; Ex |                                                  |
| model APR-2000ALE                     | Ē                                                 | 1236 VDĆ                                         |
| Additional voltage o<br>Output signal | •                                                 | ,                                                |
| Load resistance (for                  | or standard version)                              | $R[\Omega] \le \frac{U_{sup}[V] - 10V}{0,0225A}$ |
| Resistance required                   | d for communication                               | min. 240 Ω                                       |
|                                       | Materials                                         |                                                  |
| Wetted parts                          | type P, PN process c                              | onnection: SS316L                                |
| type P(H) pro                         | ocess connection: SS316L                          | or Hastelloy C276                                |
|                                       | type C process co                                 | onnection: SS316L                                |
| Diaphragms                            | SS316L, H                                         | astelloy C 276, Au                               |
| Casing<br>Motorial of u               | indour polycorbonato alag                         | Aluminium<br>Option: SS316                       |
| waterial of w                         | /indow: polycarbonate glas                        | s, narueneu glass                                |



# **Operating conditions**

|              | •              | -                  |           |
|--------------|----------------|--------------------|-----------|
| Operating te | emperature ran | ge (ambient temp.) | ) -2585°C |

| special version | on -4085°C |
|-----------------|------------|
| Exia version    | -2580°C    |
| Exd version     | -2575°C    |
|                 | -25120°C   |

#### Medium temperature range

| over | 120°C – | measurement  | with | use | an | impulse | line | or | dia- |
|------|---------|--------------|------|-----|----|---------|------|----|------|
|      |         | phragm seals |      |     |    |         |      |    |      |

#### up to 100°C - PED version

CAUTION: the medium must not be allowed to freeze in the impulse line or close to the process connection of the transmitter

# Accuracy depending on the set range



 $\begin{array}{ll} \rho_0 & - \mbox{ error for nominal measuring} \\ range (0...100\% FSO) \\ \rho_1 & - \mbox{ error for range } 0...10\% FSO \\ \rho_1 & 2 \times \rho_0 \\ \mbox{ Numerical error values are given in the technical data under metrological parameters} \end{array}$ 



# SMART DIFFERENTIAL PRESSURE TRANSMITTER APR-2000AL with Profibus PA protocol

# Application and construction

The transmitter electronic system performs the digital processing of measurement and generates the output signal with the communication module according to Profibus PA standard. The transmitter function performance bases on profile 3. The measuring ranges, according to the table, page II/ 3.

#### Communication

The communication with the transmitter is achieved in two ways:

- cyclic the transmitter sends primary measured value (4 bytes IEEE754) and status containing the information on the current state of transmitter and measurement validity (1 byte).
- acyclic this way of communication is used to device configuration and to read both primary measured value and the status

#### Configuration

Full configuration of transmitter settings, adjustment of the display mode, transmitter zeroing and calibration in relation to pressure standards proceeds with the PDM (Process Device Manager) software, by Siemens. The EED program library, worked out by Aplisens for cooperation with this transmitter, is helpful in the configuration.

Other commercial configuration software (e.g. Commuwin by Endress and Hauser, DTM/FDT tools) make transmitter configuration possible in the range of basic commands.

Enclosed to APR-2000AL/Profibus PA is GSD file comprising the description of the transmitter basic properties such as transmission rate, type and format of input data, list of additional functions. GSD file is necessary for the software serving as a device for network configuration and makes the correct

connection the appliance to Profibus network possible. The universal file GSD, designed for standard pressure transmitters made according to profile at revision 3 Profibus standard, may also be applicable to APR-2000AL/Profibus PA. The pressure transmitter APR-2000AL/Profibus PA does not have the hardware address switch. This address may be adjusted with accessible configuration software.

#### Measurements in the areas under explosion hazard

For pressure measurements in the areas under explosion hazard the ATEX intrinsically safe transmitters are available.

𝔄 II 1/2G Ex ia IIB T5 Ga/Gb

#### Technical data

Metrological parameters, measuring range, materials of process connection, diaphragms and casing, and operating conditions – see the description pages II/ 3, II/ 4.

#### **Electrical parameters**

Power supply (from DP/PA coupler )

10,5...28 VDC

12,5...28 VDC when display illumination switched on Current consumption 14mA

### Output parameters

| Output signal      | Digital communication signal Profibus – PA |
|--------------------|--------------------------------------------|
|                    | (according to EN 50170)                    |
| PA function        | slave                                      |
| Physical layer     | IEC61158-2                                 |
| Transmission range | 31,25kBit/S                                |
| Modulation         | Manchester II                              |

Transmitters with Profibus PA

# **Electrical diagrams**

Electrical diagrams for transmitters with HART protocol







# Ordering procedure

| Model                                                                                                                                                                          |            |                   | Coc                                                                                | de                                                                                                                                                                                                                                |                                                                               |                                                                                                                                                                                                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | on                                                                                                                                                 |                                                                                                                                                                                                                                                                |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| APR-2000                                                                                                                                                                       |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | ifferential pressure transmitter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
| /ALW<br>/ALE                                                                                                                                                                   |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | m housing, IP66 with display, output 4-                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
| Cooing output signal                                                                                                                                                           | ALE.       |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | m housing, IP66 with display, 0-20mA,<br>ixd version not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0-5mA +                                                                                                                                            | Hart                                                                                                                                                                                                                                                           |  |
| Casing, output signal                                                                                                                                                          | /AL/Pi     | rofibus PA/W      |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | Aluminu                                                                                                                                                                                                                                                                                            | m housing, IP66 with display, output Pr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ofibus PA                                                                                                                                          |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                | /ALW/      | /ALW/SS           |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | n not available<br>s steel housing, IP66, with display, out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | put 4-20m                                                                                                                                          | A + Hart                                                                                                                                                                                                                                                       |  |
|                                                                                                                                                                                | 1          |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | (Ex)                                                                                                                                                                                                                                                                                               | II 1/2G Ex ia IIC T4/T5 Ga/Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | /Exia             |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | IECEx                                                                                                                                                                                                                                                                                              | Ex ia IIC T4/T5 Ga/Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   | (Ex)                                                                          | II 1/2G Ex ia IIB T5 Ga/Gb (for Profib                                                                                                                                                                                                                                                             | us PA ver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | rsion)                                                                                                                                             |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | II 1/2G Ex ia IIC T4/T5 Ga/Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | ⟨£x⟩                                                                                                                                                                                                                                                                                               | II 1 D Ex ia IIIC T105°C Da<br>I M1 Ex ia I Ma (only version with SS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | housina)                                                                                                                                           |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | /Exia (Da)        |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | Ex ia IIC T4/T5 Ga/Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | nouoing)                                                                                                                                           |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | IECEx                                                                                                                                                                                                                                                                                              | Ex ia IIIC T105°C Da<br>Ex ia I Ma (only version with SS hous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ing)                                                                                                                                               |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | II 1/2G Ex ia/d IIC T5/T6 Ga/Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ing)                                                                                                                                               | )                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | (Ex)                                                                                                                                                                                                                                                                                               | II 1/2D Ex ia/t IIIC T85°C/T100°C Da/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Db                                                                                                                                                 |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | /Exd              |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | l M2 Exd ia l Mb<br>Ex ia/d IIC T5/T6 Ga/Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                    | Packing gland available on<br>request                                                                                                                                                                                                                          |  |
| Versions, certificates                                                                                                                                                         |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | IECEx                                                                                                                                                                                                                                                                                              | Ex ia/t IIIC T85°C/T100°C Da/Db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | Exd ia I Mb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                    | )                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                |            | (Fuel (0.0))      |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | (Ex)                                                                                                                                                                                                                                                                                               | II 2G Ex ia/d IIC T6/T5 Gb<br>II 2D Ex ia/t IIIC T85°C/T100°C Db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                    | Packing gland available on                                                                                                                                                                                                                                     |  |
|                                                                                                                                                                                |            | /EXa (2G)         |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | IECEx                                                                                                                                                                                                                                                                                              | Ex ia/d IIC T6/T5 Gb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                    | request                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                |            | /SA               |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | Ex ia/t IIIC T85°C/T100°C Db                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    | J                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | -                                                                                                                                                                                                                                                                                                  | unctional Safety certificate according to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PN-EN 61                                                                                                                                           | 508-1:2010;                                                                                                                                                                                                                                                    |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | PN-EN 6                                                                                                                                                                                                                                                                                            | 1508-2:2010; PN-EN 61508-3:2010; PN-E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | N 61511-1                                                                                                                                          | :2007; PN-EN 62061:2008+A1                                                                                                                                                                                                                                     |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | In Pressure Equipment Directive N° 97/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23/EC, ca                                                                                                                                          | ategory IV                                                                                                                                                                                                                                                     |  |
|                                                                                                                                                                                |            | /HS<br>/0,05%     |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | Ultra stable version (only ranges no. 2, 4÷10)<br>Accuracy ≤ ±0,05%                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | y ≤ ±0,05%<br>certificate – DNV, BV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | gen service (sensor filled with Fluorolub                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | e fluid)                                                                                                                                           |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | /320 bar          |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | essure 320 bar, only for C process con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ,                                                                                                                                                  | ot available in PED version                                                                                                                                                                                                                                    |  |
| more than one option<br>is available                                                                                                                                           |            | /420 bar<br>/IP67 |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | Static p                                                                                                                                                                                                                                                                                           | essure 420 bar, only for C process con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | nection, n                                                                                                                                         | ot available in PED version                                                                                                                                                                                                                                    |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   | Protection class IP67                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | 10.70             |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                    | Min. set range                                                                                                                                                                                                                                                 |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | 0÷70 bar (0÷7000 kPa)<br>0÷16 bar (0÷1600 kPa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                    | 7 bar (700 kPa)<br>1,6 bar (160 kPa)                                                                                                                                                                                                                           |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | 0+2,5 bar (0+250 kP)                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    | 0,2 bar (20 kPa)                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | 0+2,5 bar (0+250 kP)<br>0+1 bar (0+100 kPa)                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    | 50 mbar (5 kPa)                                                                                                                                                                                                                                                |  |
| Nominal measuring rang                                                                                                                                                         | ges        | /0÷0,2            | 5 bar                                                                              |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    | 10 mbar (1 kPa)                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | /-0,5÷0           | ),5 bar.                                                                           |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    | 0,1 bar (10 kPa)                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                |            |                   | ·                                                                                  |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | -0,1÷0,1 bar (-10÷10 kPa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                    | 10 mbar (1 kPa)                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            | /-5÷70            |                                                                                    |                                                                                                                                                                                                                                   |                                                                               | 1                                                                                                                                                                                                                                                                                                  | $b \pm (0)$ mbor $(0) = 5 \pm 7 (200)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
| /-25+25 mbar                                                                                                                                                                   |            |                   |                                                                                    | -5÷70 mbar (0,5÷7 kPa)                                                                                                                                                                                                            |                                                                               | 4 mbar (0,4 kPa)                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                |            |                   |                                                                                    |                                                                                                                                                                                                                                   |                                                                               |                                                                                                                                                                                                                                                                                                    | -25+25 mbar (-2,5+2,5 kPa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    | 2 mbar (0,2 kPa)                                                                                                                                                                                                                                               |  |
| Measuring set range                                                                                                                                                            |            | /-7÷7 n           | nbar                                                                               | ed units]                                                                                                                                                                                                                         |                                                                               | Calibrat                                                                                                                                                                                                                                                                                           | -25÷25 mbar (-2,5÷2,5 kPa)<br>-7÷7 mbar (-0,7÷0,7 kPa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | output                                                                                                                                             |                                                                                                                                                                                                                                                                |  |
| Measuring set range                                                                                                                                                            |            | /-7÷7 n           | nbar<br>[require                                                                   |                                                                                                                                                                                                                                   |                                                                               | Thread                                                                                                                                                                                                                                                                                             | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA o<br>1/4NPT F on the cover flanges cover fla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | anges mat                                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-                                                                                                                                                                                            |  |
|                                                                                                                                                                                |            | /-7÷7 n           | nbar<br>[require                                                                   | ed units]                                                                                                                                                                                                                         |                                                                               | Thread<br>ing with                                                                                                                                                                                                                                                                                 | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA o<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | anges mat                                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-                                                                                                                                                                                            |  |
| Measuring set range<br>Process connections                                                                                                                                     |            | /-7÷7 n           | nbar<br>[require<br>/C                                                             | ed units]                                                                                                                                                                                                                         |                                                                               | Thread<br>ing with<br>7/16"UN                                                                                                                                                                                                                                                                      | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA o<br>1/4NPT F on the cover flanges cover fla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | anges mat                                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-                                                                                                                                                                                            |  |
|                                                                                                                                                                                |            | /-7÷7 n           | nbar<br>[require<br>/C<br>/CR                                                      | ed units]                                                                                                                                                                                                                         |                                                                               | Thread<br>ing with<br>7/16"UN<br>C-type p                                                                                                                                                                                                                                                          | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | anges mat                                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-                                                                                                                                                                                            |  |
| Process connections                                                                                                                                                            | ble with 1 | /-7+7 n<br>/+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN                                         | ed units]                                                                                                                                                                                                                         |                                                                               | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Thread                                                                                                                                                                                                                                      | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | anges mat<br>of cover fla                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>erial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -                                                                                                                                                             |  |
|                                                                                                                                                                                | ble with I | /-7+7 n<br>/+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN                                         | ed units]                                                                                                                                                                                                                         |                                                                               | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Thread<br>Diaphra                                                                                                                                                                                                                           | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm sea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | anges mat<br>of cover fla                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>erial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -                                                                                                                                                             |  |
| Process connections<br>Process connection C availa                                                                                                                             | ble with I | /-7+7 n<br>/+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod                                 | ed units]<br>le of diaphragm                                                                                                                                                                                                      | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Thread<br>Diaphra<br>Lo side                                                                                                                                                                                                                | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>W20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm sea<br>1/4NPT Female                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | anges mat<br>of cover fla                                                                                                                          | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>erial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -                                                                                                                                                             |  |
| Process connections<br>Process connection C availa<br>certificate                                                                                                              | ble with I | /-7+7 n<br>/+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod                                 | ed units]                                                                                                                                                                                                                         | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Diaphra                                                                                                                                                                                          | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flat<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm seal<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | inges mat<br>of cover fla<br>ls) mounte                                                                                                            | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,                                                                                                                           |  |
| Process connections<br>Process connection C availa                                                                                                                             |            | /-7÷7 n<br>/÷     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod                                 | ed units]<br>le of diaphragm<br>vithout marking                                                                                                                                                                                   | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Diaphra<br>(/P and                                                                                                                                                                               | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flat<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm seal<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | inges mat<br>of cover fla<br>ls) mounte                                                                                                            | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,                                                                                                                           |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms                                                                                    |            | /-7÷7 n<br>/÷     | nbar<br>[require<br>/C<br>/P<br>/PN<br>/cod<br>(v<br>/(<br>on)                     | ed units]<br>le of diaphragm<br>vithout marking<br>H)                                                                                                                                                                             | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>(/P and<br>(not ava                                                                                                                                                                              | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flag<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms seal (see chapter of diaphragm seal<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Is) mounte                                                                                                                                         | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)                                                                                                                   |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,                                                       | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)                                                                                                                                                                             | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla                                                                                                                                                                 | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>vrocess connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm sea<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Is) mounte                                                                                                                                         | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)                                                                                                                   |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms                                                                                    | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)                                                                                                                                                                             | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit                                                                                                                                                                 | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>vrocess connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm sea<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Is) mounte                                                                                                                                         | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)                                                                                                                   |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,                                                       | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>Au)                                                                                                                                                                      | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit                                                                                                                                                                 | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>roccess connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm sea<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans<br>on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Is) mounte                                                                                                                                         | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)                                                                                                                   |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,                          | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marki<br>/NBR<br>/PTFE                                                                                                                                          | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Viti<br>NBR (fo<br>PTFE<br>Packing                                                                                                                                  | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flance<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms seal (see chapter of diaphragm seant<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>illable for transmitters in HS version)<br>ted diaphragms (not available for trans-<br>on<br>r oxygen service)<br>gland M20x1,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Is) mounte                                                                                                                                         | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)                                                                                                                   |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,                                                       | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marki<br>/NBR/<br>PTFE<br>(without marki<br>/DTFE                                                                                                               | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Diaphra<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread                                                                                                              | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ed range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans<br>on<br>r oxygen service)<br>gland M20x1,5<br>1/2"NPT Female                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | anges mat<br>f cover fla<br>ls) mounte<br>d on reque<br>mitters in                                                                                 | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)                                                                                                    |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,                          | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>NBR<br>/PTFE<br>(without marking<br>/DS                                                                                                              | n seal                                                                        | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin                                                                                                              | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flat<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms material SS316L<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans<br>on<br>r oxygen service)<br>gland M20x1,5<br>1/2"NPT Female<br>g bracket for 2" pipe (to C process connection)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nges mat<br>f cover fla<br>ls) mounta<br>6 on reque<br>mitters in                                                                                  | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)                                                                                                    |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,                          | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>MBR<br>/PTFE<br>(without marking<br>/PTFE<br>//C-2".<br>//C-2"(                                                                         | n seal<br>j)<br>arking)<br>(SS)                                               | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Diaphra<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin                                                                  | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flat<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms material SS316L<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans-<br>on<br>r oxygen service)<br>gland M20x1,5<br>1/2"NPT Female<br>g bracket for 2" pipe (to C process conn-<br>g bracket for 2" pipe (to                    | s) mounta<br>s) mounta<br>s) on reque<br>mitters in<br>n.), mat. zi                                                                                | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>inced steel<br>tainless Steel                                                                   |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,                          | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>ed units]<br>le of diaphragm<br>vithout marking<br>H)                                                                                                                                                                | ing)                                                                          | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Oiaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin                                                                                        | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover flat<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms seal (see chapter of diaphragm seal<br>1/4NPT Female<br>gms material S3316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>(PN – all wetted parts in HS version)<br>ted diaphragms (not available for trans<br>on<br>r oxygen service)<br>gland M20x1,5<br>1/2"NPT Female<br>g bracket for 2" pipe (to C process conn<br>g bracket for 2" pipe (to C process conn<br>g bracket for 2" pipe (to P process conn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | higes mat<br>of cover fla<br>s) mounted<br>b) on reque<br>mitters in<br>h.), mat. zi<br>h.), mat. zi                                               | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>inced steel<br>tainless Steel<br>tainless Steel                                                 |  |
| Process connections Process connection C availa certificate Material of diaphragms (refers only to C, CR, P, Gasket (refers only to C, Electrical connection                   | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>H)<br>(without marking<br>H)<br>(without marking<br>/DTFE<br>/PTFE<br>/C-2".<br>/C-2".<br>/RedS                                                      | n seal<br>i)<br>ing)<br>arking)<br>(SS)<br>Spaw P                             | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin<br>Connecc SS316(5)                                                                               | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fit<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in C276<br>(PN – a | higes mat<br>of cover fla<br>s) mounted<br>of on reque<br>mitters in<br>h.), mat. zi<br>h.), mat. S<br>b m, mat                                    | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>tinced steel<br>tainless Steel<br>tainless Steel<br>terial 15HM(SO) or                          |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,                          | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>H)<br>(without marking<br>H)<br>(without marking<br>/DTFE<br>/PTFE<br>/C-2".<br>/C-2".<br>/RedS                                                      | ing)                                                                          | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin<br>Mountin<br>Connec<br>SS316(<br>Connec                                                          | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm seal<br>1/4NPT Female<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in C276<br>(PN – all wetted | higes mat<br>of cover fla<br>s) mounted<br>of on reque<br>mitters in<br>h.), mat. zi<br>h.), mat. S<br>b m, mat                                    | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>tinced steel<br>tainless Steel<br>tainless Steel<br>terial 15HM(SO) or                          |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,<br>Electrical connection | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>MBR<br>/NBR<br>/PTFE.<br>(without marking<br>/DS<br>/C-2".<br>/C-2".<br>/RedS<br>/RedS                                                  | n seal<br>ing)<br>arking)<br>(SS)<br>Spaw P<br>Spaw C                         | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Uiaphra<br>Uiaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin<br>Mountin<br>Connec<br>SS316(<br>Connec                                    | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fit<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in C276<br>(PN – a | higes mat<br>of cover fla<br>is) mounted<br>b on reque<br>mitters in<br>h.), mat. zi<br>h.), mat. si<br>h.), mat. si<br>h.), mat. si<br>h. mm, mat | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>tinced steel<br>tainless Steel<br>tainless Steel<br>tainless Steel<br>terial 15HM. Only process |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,<br>Electrical connection | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>H)<br>(without marking<br>/NBR<br>/PTFE<br>(without marking<br>/DTFE<br>(Without marking<br>/C-2".<br>/C-2".<br>/RedS<br>/RedS<br>/RedS | n seal<br>in seal<br>ing)<br>srking)<br>(SS)<br>Spaw P<br>Spaw C<br>d/P 1/2'' | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin<br>Connec<br>SS316(i)<br>Connec<br>connect<br>Adapter                                  | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA of<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>M20x1,5 (male)<br>1/4"NPT (female)<br>gms material SS316L<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Lastelloy C276<br>(PN – all wetted parts in La                     | higes mat<br>of cover fla<br>is) mounted<br>b on reque<br>mitters in<br>h.), mat. zi<br>h.), mat. si<br>h.), mat. si<br>h.), mat. si<br>h. mm, mat | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>tinced steel<br>tainless Steel<br>tainless Steel<br>tainless Steel<br>terial 15HM. Only process |  |
| Process connections<br>Process connection C availa<br>certificate<br>Material of diaphragms<br>(refers only to C, CR, P,<br>Gasket (refers only to C,<br>Electrical connection | PN pro     | V-7+7 n<br>V+     | nbar<br>[require<br>/C<br>/CR<br>/P<br>/PN<br>/cod<br>(v<br>/(<br><br>/N<br>/(<br> | ed units]<br>ed units]<br>le of diaphragm<br>vithout marking<br>H)<br>(without marking<br>/NBR<br>/PTFE.<br>(without marki<br>/NBR<br>/PTFE.<br>(without marki<br>/IC-2".<br>/C-2".<br>/RedS<br>/RedS<br>/RedS                    | n seal<br>ing)<br>arking)<br>(SS)<br>Spaw P<br>Spaw C                         | Thread<br>ing with<br>7/16"UN<br>C-type p<br>Thread<br>Diaphra<br>Lo side<br>Diaphra<br>Diaphra<br>(/P and<br>(not ava<br>Gold pla<br>FPM Vit<br>NBR (fo<br>PTFE<br>Packing<br>Thread<br>Mountin<br>Mountin<br>Mountin<br>Connec<br>SS316(C)<br>Connec<br>Connect<br>Adapter<br>thread<br>Stainles | -25+25 mbar (-2,5+2,5 kPa)<br>-7+7 mbar (-0,7+0,7 kPa)<br>ad range in relation to 4mA and 20mA (<br>1/4NPT F on the cover flanges cover fla<br>a valve manifold. Process connection of<br>F acc. to IEC 61518)<br>process connection rotated 90°<br>W20x1,5 (male)<br>1/4"NPT (female)<br>gm seal (see chapter of diaphragm sea<br>1/4NPT Female<br>gms material SS316L<br>gms material SS316L<br>gms material Hastelloy C276<br>(PN – all wetted parts in Hastelloy C276<br>ilable for transmitters in HS version)<br>ted diaphragms (not available for trans<br>on<br>r oxygen service)<br>gland M20x1,5<br>1/2"NPT Female<br>g bracket for 2" pipe (to C process conne<br>g bracket for 2" pipe (to C process conne<br>or to weld impulse pipes dia. 12 and 14<br>S). Only process connection P type<br>for differential pressure transmitters wi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | higes mat<br>of cover fla<br>is) mounted<br>b on reque<br>mitters in<br>h.), mat. zi<br>h.), mat. si<br>h.), mat. si<br>h.), mat. si<br>h. mm, mat | 2 mbar (0,2 kPa)<br>1 mbar (0,1 kPa)<br>terial SS316. Allows mount-<br>ange: M10 (option /C(7/16) -<br>ed on Hi side of transmitter,<br>est)<br>HS version)<br>tinced steel<br>tainless Steel<br>tainless Steel<br>tainless Steel<br>terial 15HM. Only process |  |