

Bourdon temperature and pressure measurement technology

Variants and stock catalog 2020



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Today, Bourdon® is one of the world leading brands for mechanical process instrumentation and belongs with its international business locations to the Baumer Group*. It was created in 2005 by the acquisition of the service portfolios and competences of the formerly well-known brands Bourdon-Sedeme and Haenni. Historically, this competence and passion is based on the Bourdon tube invented in 1843 by Eugène Bourdon, which is the central component for precise mechanical pressure measurement technology, today and in the future.

The company founded by Eugene Bourdon, today Baumer Bourdon-Haenni S.A.S. in Vendôme, Baumer Electric AG in Kirchberg as well as Bourdon-Haenni GmbH with its location in Stockach in southern Germany, are centers of competence for Bourdon process instrumentation.

The comprehensive product portfolio is manufactured with high vertical integration and state-of-the-art process methods in the company own production sites in France, Switzerland, Germany and India. In addition to the standard products such as thermometers, pressure gauges, pressure and temperature switches and diaphragm seals, this portfolio also comprises a large number of customer-specific solutions, which are mainly used in the sectors of oil and gas, energy / power plants, water supply, chemistry as well as heating, ventilation and air conditioning.

A worldwide distribution network with specialized Bourdon distributors and Baumer's own subsidiaries provides fast and reliable customer service with high product availability thanks to local presence.

* The Baumer Group is leading at international level in the development and production of sensors, shaft encoders, measuring instruments as well as components for automatic image processing. As an owner-managed family business, we employ about 2600 workers worldwide in 38 subsidiaries and 19 countries. With marked customer orientation, consistently high quality and vast innovation capability, Baumer develops specific solutions for many industries and applications worldwide.



High-Tech Center Bodensee with distribution center and head office of Bourdon-Haenni GmbH



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| | | |
|---|--------|----|
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|---|--------|----|



Industrial pressure gauges

Utility pressure gauges,
steel housing



Capsule pressure gauges



Utility pressure gauges with
stainless steel housing

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| | | |
|---|-------------|----|
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| | | |
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|-----------------------|--------|----|
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Variants and stock availability.

The catalog provides you a concise overview on common requested variants as well as on stock availability of products ready for same-day shipments* upon request.

We offer you this product selection to meet your expectations concerning

- a clear overview of products and product ranges,
- state-of-the-art product and service quality,
- a favorable price-performance ratio as well as
- a business partner with reliable delivery capability.

+ 1000 variants of pressure gauges, thermometers and accessories available immediately from stock.

+ 500 variants produced and delivered in less than one week.

+ 3000 variants of common products to be ordered separately.

+ **Customer-specific variants** from millions of combinations available on request.

Immediate delivery availability of stock products from our new distribution center. On request, all orders received before 12 noon* can benefit from same-day shipment services.

Customer proximity and technical on-site advice is guaranteed by our distribution partners and our field and office staff. They offer support in the choice of the best possible solution for your specific applications.

Thanks to our many years of experience, we can guarantee high quality standards in the whole field of temperature and pressure measurement technology, as well as the associated service.

Same-day shipments



Bourdon-Haenni GmbH is able to deliver the stock product range on request with same-day shipment services for Europe for incoming orders placed before 12 noon. Our distribution partners can also guarantee this service for selected products and variants. Please do not hesitate to get in touch with us.

All products in this catalog are subject to our General Terms and Conditions, which you can find on our Internet site at www.bourdon.baumer.com.

Order in 3 steps.

Find the product you are looking for quickly and easily in the easy-to-understand table of contents. Select the product on the page in question according to your specification requirements.

Use only the material number for standard products or, if you wish to configure products with options and certificates, use the appropriate ordering code.

For products with no options you are free to place orders by means of the material number and/or the ordering code. If you specify both, it is the material number that is binding for us.

Send your order or inquiry to:
sales@bourdon-haenni.com

Do you have any questions?

Our specialists will help you with a great deal of experience and expert advice to quickly make the right product choice for your individual application at economically attractive conditions.



**Do not hesitate to call us at
+49 (0)7771 6474-300**

We have the answers.



Do you need technical advice?
Contact our technical experts at
+49 (0)7771 6474-300



Do you need technical advice on site?
Contact our regional distribution partners or talk to our
field and office staff

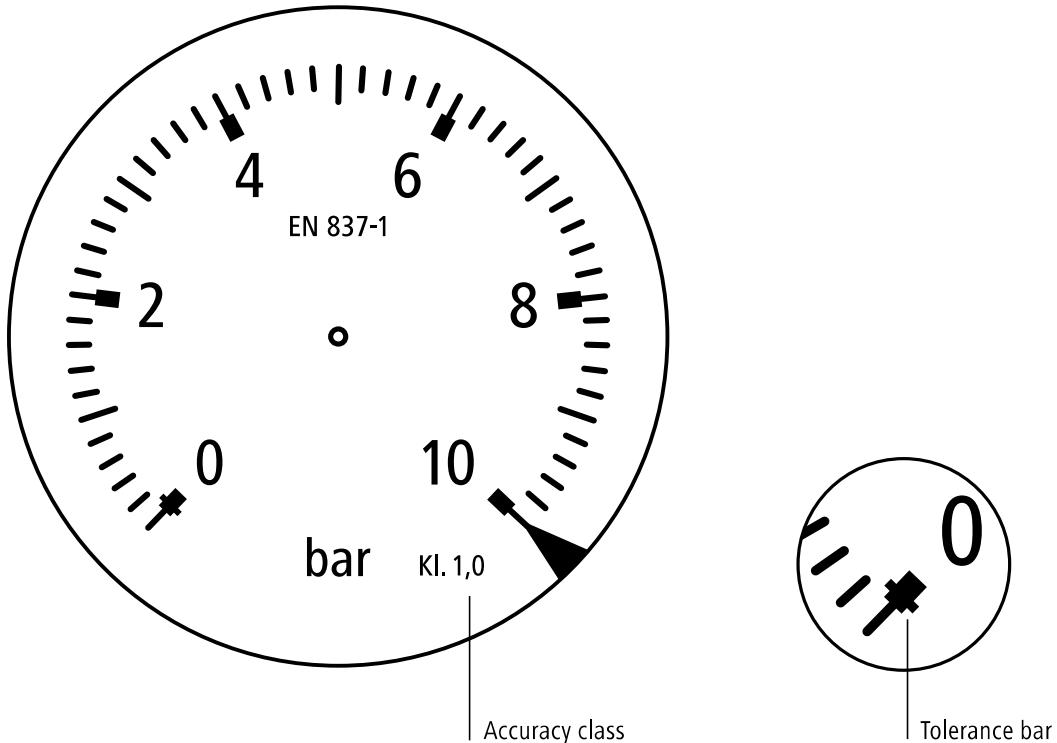


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Visit us online at www.bourdon.baumer.com.
Find your product in the product selector.

Accuracy specifications for pressure.

The accuracy of pressure gauges is determined by the specification of the class in accordance with EN 837-1. The class specifies the maximum permissible measurement error as a percentage of the measuring span. The measuring span is the difference between the value at the end of the scale and the value at the start of the scale.

For devices based on EN 837, the accuracy class is specified on the dial. The width of the tolerance bar at the zero point setting on the dial corresponds to the margin of error, i.e. in a pressure-free condition the pointer must be within the tolerance bar.



Examples:

Bourdon tube pressure gauge, Class 1
Measuring range -1 ... 5 bar
Measuring span: 6 bar
Permitted error: ± 60 mbar ($\pm 1\%$ of 6 bar)

Capsule pressure gauge, Class 1.6
Measuring range 0 ... 250 mbar
Measuring span: 250 mbar
Permitted error: ± 4 mbar ($\pm 1.6\%$ of 250 mbar)

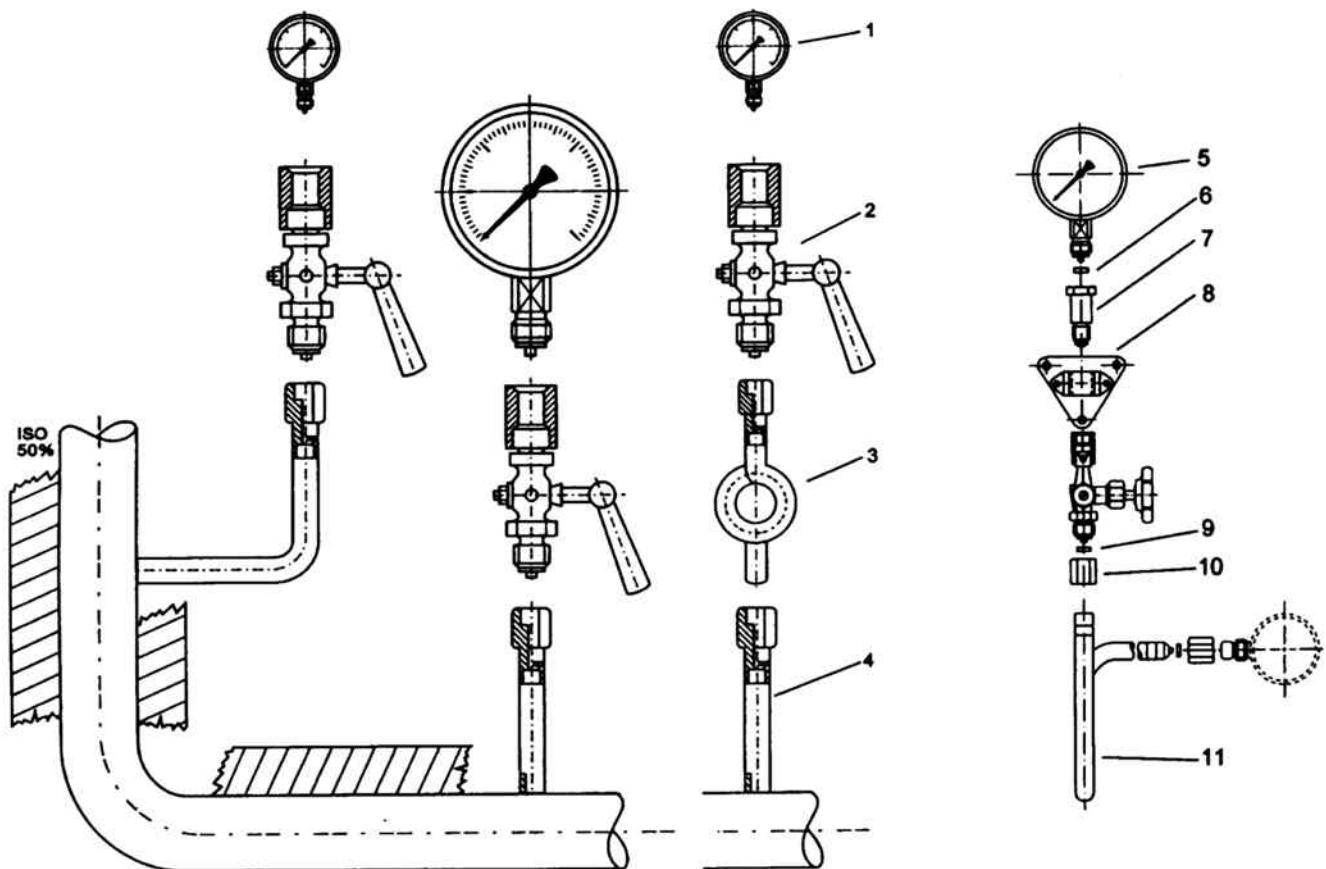
Installation example for pressure gauges.

Water, hot water, media < 100 °C

1. Pressure gauge
2. Shut-off cock or valve
3. Siphon, coil type
4. Tube adapter

Steam, hot water, media > 100 °C

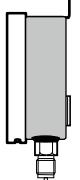
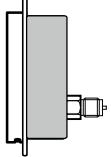
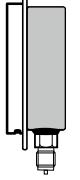
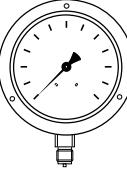
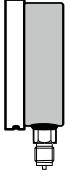
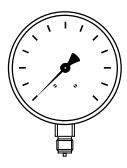
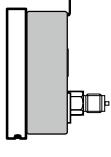
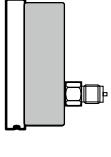
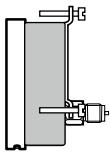
5. Pressure gauge
6. Gasket
7. Spacer
8. Mounting support
9. Gasket
10. Adjusting nut
11. Siphon, U-shape



Recommendation:

With pulsating media (e.g. in the vicinity of pumps) the use of measuring devices with damping fluid and pressure shock absorbers is advantageous.

Housing forms for pressure gauges.

| | Housing Material 1.4404 | Housing Material 1.4301 | |
|--|----------------------------|----------------------------|--|
| Connection radial, bottom, 3 tabs for wall mounting | 1 | A |   |
| Rear connection, front ring for panel mounting, with 3 mounting holes in the ring | 2 | B |   |
| Connection radial, bottom, front ring for panel mounting, with 3 mounting holes in the ring | 3 | C |   |
| Connection radial bottom | 4 | D |   |
| Rear connection, 3 tabs for wall mounting | 5 | E |   |
| Rear connection | 6 | F |   |
| Rear connection, front ring and mounting bracket for panel mounting | 7 | G |   |

Structure of the order code for pressure gauges

| | | | | | | | | | |
|--------|---|---------------|------------|---------|---|---------------|-----------------|---|--------|
| MEX5 | - | D | 3 | 0 | . | B | 22 | / | 0751 |
| Family | | Housing shape | Connection | Filling | | Pressure unit | Measuring range | | Option |

Bourdon pressure gauge – useful knowledge.

EN 837-1/3

European standard for pressure gauges, defines the metrological properties of a pressure gauge based on the respective measuring element (Bourdon tube, capsule element or diaphragm).

Damping fluid

In case of strong vibrations, the pressure gauge is filled with damping liquid for the mechanical protection of the pointer movement. The different fluids vary in temperature range and viscosity. In very low pressure ranges, no highly viscous fluids are used, since they can influence the measured value.

Throttle screw

Threaded insert with a small hole for installation in the medium channel of the process connection to reduce pressure surges on the measuring element (Bourdon tube).

Temperature error

0.4% of the final value of the measuring range per 10 K (reference temperature is 20 °C).

Window

The following windows are available:

- Instrument glass (standard with most devices)
- Polycarbonate (option 0753)
- Multi-layer safety glass (option 0751)

Multi-layer safety glass is used as standard for ATEX-certified devices.

Certificate

In accordance with the EN 10204 standard, Bourdon offers three types:

2.1 Certificate

Works certificate which certifies the conformance of the delivery with the order.

2.2 Certificate

Works certificate which certifies the conformance of the critical product properties with the properties warranted in the data sheet.

3.1 Certificate

This refers to specific tests which are performed on the devices and which are identified with reference to the serial number. These may be calibration certificates or material certificates.

Blow-out opening at the top of the housing circumference (at 12 o'clock, blow-out disc)

All gauges by Bourdon have a blow-out device, which is located on the housing circumference and which at the same time serves as a filler for the damping fluid. All pressure gauges thus fulfill the minimum requirement S1 (see safety pressure gauges).

Unbreakable partition including blow-out rear wall (solid front)

Pressure gauges with an unbreakable partition protect a person from the pressure gauge if the Bourdon tube should burst in the event of unauthorized overpressure. The resulting explosive pressure increase is released by the blow-out rear wall in the direction facing away from the person.

Safety pressure gauge

With respect to design, three different safety classes are defined in accordance with EN 837-1:

- S1 – Pressure gauge with blow-out device
- S2 – Safety pressure gauge without unbreakable partition but with additional, rear blow-out opening
- S3 – Safety pressure gauge with unbreakable partition and rear blow-out cover. In the event of harmful overpressure in the pressure gauge, this releases most of the rear wall.

Damping fluids for pressure gauges

| Type | Code |
|--|------|
| Dry, without filling | 0 |
| Glycerin/water 86%, low viscosity (media temperature -20 ... +70 °C) | 1 |
| Glycerin 99.5%, high viscosity (media temperature 0 ... +90 °C) | 2 |
| Silicone oil (media temperature -40 ... +100 °C) | 3 |

The original from the inventor of the Bourdon tube.



Bourdon-Haenni GmbH today offers you a wide range of original Bourdon products based on more than 170 years of technical development and experience.

 **Bourdon**
Baumer Group

MMD3 (DR63 / DRO63)

Industrial pressure gauge stainless steel / brass - nominal size 63

- ▶ Please use exclusively the material number for standard products
 - ▶ Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|--|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) Crimped housing |
| Bourdon tube | Copper alloy |
| Connection | Copper alloy |
| Window | Plexiglas |
| Ambient temperature | -20°C - 70°C |



| Nominal size | | Ø 63 mm G 1/4 | | | |
|--------------------|----------------|------------------|--------------|--------------|--------------|
| Process connection | | bottom | rear | bottom | rear |
| Connection | | | | | |
| Damping liquid | | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code ► | | MMD3-D20.B** | MMD3-F20.B** | MMD3-D22.B** | MMD3-F22.B** |
| Pressure range | Price in Euro | 40.10 | 42.50 | 47.60 | 50.00 |
| -1 ... 0 bar | -1 ... 0 bar | 11168895 | 11167275 | 11168418 | 11197090 |
| | -1 ... 0.6 bar | 11197061 | 11197065 | 11197076 | 11197091 |
| | -1 ... 1.5 bar | 11171690 | 11197066 | 11197077 | 11197092 |
| | -1 ... 3 bar | 11197062 | 11197067 | 11168425 | 11195068 |
| | -1 ... 5 bar | 11170565 | 11197068 | 11173539 | 11197093 |
| | -1 ... 9 bar | 11179055 | 11197069 | 11167897 | 11166190 |
| | -1 ... 15 bar | 11170566 | 11197070 | 11197078 | 11197094 |
| | 0 ... 0.6 bar | 11179924 | 11197071 | 11197079 | 11197095 |
| | 0 ... 1 bar | 11165165 | 11197072 | 11180532 | 11197096 |
| | 0 ... 1.6 bar | 11159220 | 11159237 | 11159228 | 11159249 |
| | 0 ... 2.5 bar | 11159221 | 11159238 | 11159229 | 11159251 |
| | 0 ... 4 bar | 11159222 | 11159239 | 11159230 | 11159253 |
| Price in Euro | | 38.80 | 41.20 | 46.30 | 48.70 |
| 0 ... 6 bar | 11159223 | 11159240 | 11159232 | 11159254 | |
| 0 ... 10 bar | 11159224 | 11159241 | 11159233 | 11159255 | |
| 0 ... 16 bar | 11159225 | 11159242 | 11159234 | 11159256 | |
| 0 ... 25 bar | 11159226 | 11159243 | 11159235 | 11159257 | |
| 0 ... 40 bar | 11159227 | 11159244 | 11159236 | 11159258 | |
| 0 ... 60 bar | 11167629 | 11193176 | 11167860 | 11179408 | |
| Price in Euro | | 43.20 | 45.60 | 50.70 | 53.10 |
| Material number ► | 0...100 bar | 11167273 | 11197073 | 11165354 | 11184220 |
| | 0...160 bar | 11167276 | 11188302 | 11169985 | 11173520 |
| | 0...250 bar | 11167277 | 11197074 | 11167783 | 11175341 |
| | 0...400 bar | 11197063 | 11188303 | 11164876 | 11179900 |
| | 0...600 bar | 11197064 | 11197075 | 11182222 | 11178446 |

| | | | |
|-----------------------------------|--|----------------------------------|------------------------------|
| Process connection | G 1/2 (with connection piece) | 13.20 | MMD3-*3*.B** |
| Options (additional costs) | Laminated safety glass | 5.20 | / 0751 |
| Certificates (Net-Prices) | 2.1 certificate 2.2 certificate 3.1 calibration certificate - 5 points increasing, 1 point decreasing 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 23.50 32.60 43.00 55.00 | Q001 Q002 Q008 Q009 |



| | | | |
|------------------------------|---|--------------------|-----------------|
| Example ordering code | MMD3-D20.B20/0751 | 44.00 | ◀ |
| | MMD3 nominal size 63, connection bottom G 1/4, dry, 0...6 bar | | |
| Availability | stock item | upon manufacturing | - not available |

MMD5 (DR100 / DRO100)

Industrial pressure gauge stainless steel / brass - nominal size 100

► Please use exclusively the material number for standard products

► Please use the ordering code for configurated products with options, certificates, ...

Accuracy
Protection rating

Class 1.0 (according to EN 837-1)

IP54 / IP65 (EN 60529)

Housing
Bourdon tube
Connection
Window
Ambient temperature

Stainless steel 1.4301 (AISI 304)

DIN case, bajonet

Copper alloy

Copper alloy

Instrument glass

-20°C ... 70°C



Nominal size

Process connection

Connection

Ø 100 mm

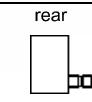
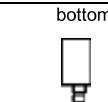
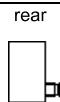
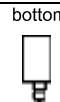
G 1/2

Damping liquid

Ordering code ►

Price in Euro

Pressure range



MMD5-D30.B**

MMD5-F30.B**

MMD5-D31.B**

MMD5-F31.B**

** ▾

61.10

91.60

77.60

108.10

59

10292058

10292237

10292114

10292251

11196816

11196776

11196797

11196779

11196817

72

10292061

11196798

11196790

10292253

74

10292063

10292239

10292117

10292254

76

10292066

10292240

10292118

10292255

77

10292067

10292241

10292119

10292255

79

10292068

11196799

11196791

11196819

81

10292003

11196795

11196778

11196810

12

10292005

11078186

10292099

11196813

15

10292009

10292228

10292100

10292242

16

10292012

10292229

10292101

10292243

18

10292016

10292230

10292102

10292244

19

58.60

89.10

75.10

105.60

20

10292019

10292231

10292104

10292245

22

10292028

10292232

10292105

10292246

24

10292041

10292233

10292107

10292247

26

10292048

10292234

10292109

10292248

27

10292051

10292235

10292111

10292249

29

10292054

11196796

10292113

11196815

29

Material number ►

Mounting type connection (surcharge to mounting typ D)

Bottom, 3 lugs for wall-mount

16.50 MMD5-A**.B**

Rear, front ring for panel-mount, 3 mounting holes

72.10 MMD5-B**.B**

Bottom, front ring for panel-mount, 3 mounting holes

41.60 MMD5-C**.B**

Rear, front ring and mounting elements for panel-mount

134.80 MMD5-G**.B**

Process connection

G 1/4

14.20 MMD5-*2*.B**

1/2 NPT

0.00 MMD5-*6*.B**

Options (additional costs)

Laminated safety glass

/ 0751

Silicone-free with mark on dial

17.80 0794

Adjustable pointer on dial (only without glycerin filling)

9.20 0051

Adjustable pointer on window

26.80 0053

Indexpointer, adjustable by magnet

34.20 0054

Certificates (Net-Prices)

2.1 certificate

23.50 Q001

2.2 certificate

32.60 Q002

3.1 calibration certificate - 5 points increasing, 1 point decreasing

43.00 Q008

3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing

55.00 Q009

Example ordering code

MMD5-D30.B20/0053

85.40

MMD5 nominal size 100, connection bottom G 1/2, dry, 0...6 bar

Adjustable pointer on window

Availability

stock item

upon manufacturing

- not available

MEX2

Industrial pressure gauge stainless steel - nominal size 50

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|---------------------|---|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) Bajonet lock |
| Bourdon tube | Stainless steel 1.4404 (AISI 316L) |
| Connection | Stainless steel 1.4404 (AISI 316L) |
| Window | Instrument glass |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 50 mm G 1/4 | | | |
|--------------------|------------------|--------------|--------------|--------------|
| | bottom | rear | bottom | rear |
| Process connection | | | | |
| Connection | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code ► | MEX2-D20.B** | MEX2-F20.B** | MEX2-D21.B** | MEX2-F21.B** |
| Price in Euro | 87.20 | 90.30 | 91.80 | 94.90 |
| Pressure range | -1 ... 0 bar | 10275234 | 10275610 | 10275310 |
| | -1 ... 0.6 bar | 10275235 | 10275611 | 11181414 |
| | -1 ... 1.5 bar | 10275238 | 10275612 | 11100911 |
| Price in Euro | 67.10 | 70.20 | 71.70 | 74.80 |
| | -1 ... 3 bar | 10275239 | 11039009 | 10275311 |
| | -1 ... 5 bar | 10275240 | 10275613 | 10275312 |
| | -1 ... 9 bar | 10275242 | 10275616 | 10275313 |
| | -1 ... 15 bar | 10275243 | 11018114 | 10275314 |
| | -1 ... 24 bar | 10275245 | 10275617 | 11130734 |
| Price in Euro | 80.20 | 83.30 | 84.80 | 87.90 |
| | 0 ... 1 bar | 10275196 | 10275572 | 10275283 |
| | 0 ... 1.6 bar | 10275198 | 10275574 | 10275284 |
| | 0 ... 2.5 bar | 10275199 | 10275577 | 10275286 |
| Price in Euro | 67.90 | 71.00 | 72.50 | 75.60 |
| | 0 ... 4 bar | 11012434 | 11012492 | 10275288 |
| | 0 ... 6 bar | 11012436 | 11012494 | 10275289 |
| Price in Euro | 62.10 | 65.20 | 66.70 | 69.80 |
| | 0 ... 10 bar | 11012448 | 11012497 | 10275294 |
| | 0 ... 16 bar | 11012450 | 11012498 | 10275297 |
| | 0 ... 25 bar | 10275214 | 10275593 | 10275299 |
| | 0 ... 40 bar | 11012460 | 11012499 | 10275301 |
| Price in Euro | 78.70 | 81.80 | 83.30 | 86.40 |
| | 0 ... 60 bar | 11012490 | 11012501 | 10275303 |
| | 0 ... 100 bar | 10275224 | 10275602 | 10275305 |
| | 0 ... 160 bar | 10275225 | 11053143 | 10275306 |
| | 0 ... 250 bar | 10275226 | 10275605 | 10275307 |
| | 0 ... 400 bar | 10275232 | 10275608 | 10275308 |
| | 0 ... 600 bar | 10275233 | 10275609 | 11080604 |
| Price in Euro | 112.20 | 115.30 | 116.80 | 119.90 |
| 0..1000 bar | 11195744 | 11195745 | 10275309 | 11195747 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Mounting type connection (surcharge to mounting typ D)

| | | |
|---|-------|--------------|
| Bottom, 3 lugs for wall-mount | 9.60 | MEX2-A**.B** |
| Rear, front ring for panel-mount, 3 mounting holes | 10.80 | MEX2-B**.B** |
| Rear, front ring and mounting bracket for panel-mount | 21.20 | MEX2-G**.B** |

Process connection

| | | |
|---------|------|--------------|
| 1/4 NPT | 0.00 | MEX2-*5*.B** |
|---------|------|--------------|

Options (additional costs)

| | | |
|---|------|------|
| Laminated safety glass | 1.50 | / |
| Window polycarbonate | 6.60 | 0753 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 | 0078 |

Certificates (Net-Prices)

| | | |
|---|-------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q009 |

Example ordering code

MEX2-D21.B20/0751_Q001

97.50

MEX2 nominal size 50, connection bottom G 1/4, Glycerin, 0...6 bar
Laminated safety glass, 2.1 certificate

Availability

stock item

upon manufacturing

- not available

MEX3

Industrial pressure gauge stainless steel - nominal size 63 with crimped bezel ring case

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|---------------------|--|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) Crimped housing |
| Bourdon tube | Stainless steel 1.4404 (AISI 316L) |
| Connection | Stainless steel 1.4404 (AISI 316L) |
| Window | Polycarbonate |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 63 mm | | | |
|--------------------|---|--|--|--|
| | G 1/4 | | | |
| Process connection | bottom | rear | bottom | rear |
| Connection | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code ► | MEX3-D20.B**/0133 | MEX3-F20.B**/0133 | MEX3-D21.B**/0133 | MEX3-F21.B**/0133 |
| Price in Euro | 69.70 | 72.40 | 73.60 | 76.30 |
| Pressure range | -1 ... 0 bar -1 ... 0.6 bar -1 ... 1.5 bar | 11170238 11172530 11172532 | 11172657 11172658 11172659 | 11172561 11172562 11172564 |
| Price in Euro | 49.70 | 52.40 | 53.60 | 56.30 |
| | -1 ... 3 bar -1 ... 5 bar -1 ... 9 bar -1 ... 15 bar -1 ... 24 bar | 11172534 11172535 11172537 11172538 11172540 | 11172660 11172661 11172662 11172663 11172664 | 11172569 11172570 11172572 11172573 11172575 |
| Price in Euro | 62.80 | 65.50 | 66.70 | 69.40 |
| | 0 ... 1 bar 0 ... 1.6 bar 0 ... 2.5 bar | 11170134 11170178 11170216 | 11172628 11172629 11172640 | 11172546 11172548 11172550 |
| Price in Euro | 50.50 | 53.20 | 54.40 | 57.10 |
| | 0 ... 4 bar 0 ... 6 bar | 11170217 11170219 | 11172642 11172643 | 11172551 11172553 |
| Price in Euro | 44.70 | 47.40 | 48.60 | 51.30 |
| | 0 ... 10 bar 0 ... 16 bar 0 ... 25 bar 0 ... 40 bar | 11170220 11170221 11170223 11170229 | 11170231 11172645 11170233 11172646 | 11170322 11172555 11170324 11172557 |
| Price in Euro | 61.30 | 64.00 | 65.20 | 67.90 |
| | 0 ... 60 bar 0 ... 100 bar 0 ... 160 bar 0 ... 250 bar 0 ... 400 bar 0 ... 600 bar | 11170224 11170225 11170227 11170228 11170236 11170237 | 11172647 11172649 11172650 11172654 11172655 11196263 | 11172559 11170325 11170326 11170327 11170328 11170329 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Important notice

The crimped version requests always the specific ordering code

0133

Mounting type connection (surcharge to mounting typ D)

Rear, with mounting bracket for panel-mount

10.80 MEX3-G**.B**/0133

Process connection

1/4 NPT

0.00 MEX3-*5*.B**/0133

Certificates (Net-Prices)

| | | |
|---|--------------|------|
| 2.1 certificate | 23.50 | / |
| 2.2 certificate | 32.60 | Q001 |
| 3.1 material certificate | 49.00 | Q002 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q003 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q008 |
| | | Q009 |

Example ordering code

MEX3-D50.B22/0133_Q008

91.60

MEX3 nominal size 63, crimped ring case, connection bottom 1/4 NPT, dry, 0...10 bar

3.1 calibration certificate - 5 points increasing, 1 point decreasing

Availability

stock item

within 5 days

upon manufacturing

- not available

MEX3

Industrial pressure gauge stainless steel - nominal size 63 with bajonet bezel ring case

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|---------------------|--|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4404 (AISI 316L) Bajonet lock |
| Bourdon tube | Stainless steel 1.4404 (AISI 316L) |
| Connection | Stainless steel 1.4404 (AISI 316L) |
| Window | Instrument glass |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 63 mm | | | |
|--------------------|----------------|---------------|---------------|---------------|
| | G 1/4 | | | |
| Process connection | bottom | rear | bottom | rear |
| Connection | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code ► | MEX3-420.B** | MEX3-620.B** | MEX3-421.B** | MEX3-621.B** |
| Price in Euro | 102.50 | 106.30 | 106.40 | 110.20 |
| Pressure range | -1 ...0 bar | 11195972 | 11195973 | 11195811 |
| | -1 ...0.6 bar | 11195798 | 11195832 | 11195812 |
| | -1 ...1.5 bar | 11195799 | 11195833 | 11010284 |
| Price in Euro | 82.50 | 86.30 | 86.40 | 90.20 |
| | -1 ...3 bar | 11195800 | 11195834 | 11195813 |
| | -1 ...5 bar | 11195801 | 11195835 | 11195814 |
| | -1 ...9 bar | 11195802 | 11195836 | 11195817 |
| | -1 ...15 bar | 11137908 | 11195837 | 11195815 |
| | -1 ...24 bar | 11195803 | 11195838 | 11195816 |
| Price in Euro | 95.60 | 99.40 | 99.50 | 103.30 |
| | 0 ...1 bar | 11195766 | 11195818 | 11195804 |
| | 0 ...1.6 bar | 11195767 | 11195819 | 11195805 |
| | 0 ...2.5 bar | 11195768 | 11195820 | 10275934 |
| Price in Euro | 83.30 | 87.10 | 87.20 | 91.00 |
| | 0 ...4 bar | 11195769 | 11195822 | 11195806 |
| | 0 ...6 bar | 11046837 | 11178347 | 11130431 |
| Price in Euro | 77.50 | 81.30 | 81.40 | 85.20 |
| | 0 ...10 bar | 10275928 | 11195821 | 10275935 |
| | 0 ...16 bar | 11195790 | 11187841 | 11145744 |
| | 0 ...25 bar | 11195791 | 11166385 | 10275936 |
| | 0 ...40 bar | 11195792 | 11195823 | 11195807 |
| Price in Euro | 94.10 | 97.90 | 98.00 | 101.80 |
| | 0 ...60 bar | 11195793 | 11195824 | 10275937 |
| | 0 ...100 bar | 11195794 | 11195825 | 10275939 |
| | 0 ...160 bar | 10275930 | 11195826 | 11195808 |
| | 0 ...250 bar | 10275931 | 11195827 | 11195840 |
| | 0 ...400 bar | 11195795 | 11195828 | 11155936 |
| | 0 ...600 bar | 11195796 | 11195829 | 11195809 |
| Price in Euro | 127.60 | 131.40 | 131.50 | 135.30 |
| | 0 ...1000 bar | 11195797 | 11195831 | 11195810 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Mounting type connection (surcharge to mounting typ 4)

| | | |
|---|--------------|--------------|
| Bottom, rear flange for wall-mount | 19.60 | MEX3-1**.B** |
| Rear, front ring for panel-mount, 3 mounting holes | 21.20 | MEX3-2**.B** |
| Rear, front ring and mounting bracket for panel-mount | 24.20 | MEX3-7**.B** |

Process connection

| | | |
|---------|-------------|-------------|
| 1/4 NPT | 0.00 | MEX3-*5.B** |
|---------|-------------|-------------|

Options (additional costs)

| | | |
|---|-------------|------|
| Laminated safety glass | 1.50 | / |
| Window polycarbonate | 6.00 | 0751 |
| Friction pointer adjustable | 1.50 | 0753 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 | 0679 |

Certificates (Net-Prices)

| | | |
|---|--------------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q009 |

Example ordering code

MEX3-450.B22/0751_Q008

122.00

MEX3 nominal size 63, connection bottom 1/4 NPT, dry, 0...10 bar

Laminated safety glass, 3.1 calibration certificate

Availability

stock item

upon manufacturing

- not available

MEX5

Industrial pressure gauge stainless steel - nominal size 100



- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|---------------------|------------------------------------|
| Accuracy | Class 1.0 (according to EN 837-1) |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Bourdon tube | DIN case, bajonet |
| Connection | Stainless steel 1.4404 (AISI 316L) |
| Window | Stainless steel 1.4404 (AISI 316L) |
| Ambient temperature | Instrument glass -20°C ... 70°C |

| Nominal size | Ø 100 mm | | | |
|-------------------|-----------------|---------------|---------------|---------------|
| | G 1/2 | | | |
| Connection | bottom | rear | bottom | rear |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code ► | MEX5-D30.B** | MEX5-F30.B** | MEX5-D31.B** | MEX5-F31.B** |
| Price in Euro | 107.10 | 125.70 | 126.10 | 144.70 |
| Pressure range | -1 ... 0 bar | 11011230 | 10286482 | 10286610 |
| | -1 ... 0.6 bar | 10282286 | 10286484 | 10286614 |
| | -1 ... 1.5 bar | 11011233 | 10286486 | 10286615 |
| Price in Euro | 83.90 | 102.50 | 102.90 | 121.50 |
| | -1 ... 3 bar | 11011234 | 10286487 | 10286616 |
| | -1 ... 5 bar | 11011237 | 10286489 | 10286617 |
| | -1 ... 9 bar | 11011238 | 10286493 | 10286622 |
| | -1 ... 15 bar | 10282404 | 10286497 | 10286624 |
| | -1 ... 24 bar | 10282417 | 10286498 | 11133438 |
| Price in Euro | 99.90 | 118.50 | 118.90 | 137.50 |
| | 0 ... 0.6 bar | 11011101 | 10286392 | 11133437 |
| | 0 ... 1 bar | 11011111 | 10286395 | 10286538 |
| | 0 ... 1.6 bar | 11011128 | 10286399 | 10286540 |
| | 0 ... 2.5 bar | 11011142 | 11164350 | 10286541 |
| Price in Euro | 78.00 | 96.60 | 97.00 | 115.60 |
| | 0 ... 4 bar | 11011143 | 10286405 | 10286546 |
| | 0 ... 6 bar | 11011146 | 10286414 | 10286552 |
| | 0 ... 10 bar | 11011161 | 10286424 | 10286565 |
| | 0 ... 16 bar | 11011162 | 10286434 | 10286579 |
| | 0 ... 25 bar | 11011164 | 10286443 | 10286586 |
| Price in Euro | 96.60 | 115.20 | 115.60 | 134.20 |
| | 0 ... 40 bar | 11011174 | 10286455 | 10286590 |
| | 0 ... 60 bar | 11011177 | 10286463 | 10286594 |
| | 0 ... 100 bar | 11011178 | 10286466 | 10286597 |
| | 0 ... 160 bar | 11011179 | 10286468 | 10286598 |
| | 0 ... 250 bar | 11011221 | 10286469 | 10283105 |
| | 0 ... 400 bar | 11011222 | 10286471 | 10283126 |
| | 0 ... 600 bar | 11011223 | 10286475 | 10283140 |
| Price in Euro | 135.00 | 153.60 | 154.00 | 172.60 |
| | 0.1000 bar | 11011227 | 10286476 | 10286605 |
| | 0.1600 bar | 10282256 | 10286478 | 10286607 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Mounting type connection (surcharge to mounting typ D)

| | | |
|---|--------------|--------------|
| Bottom, 3 lugs for wall-mount | 24.50 | MEX5-A**.B** |
| Rear, front ring for panel-mount, 3 mounting holes | 61.20 | MEX5-B**.B** |
| Rear, 3 lugs for wall-mount | 42.60 | MEX5-E**.B** |
| Rear, front ring and mounting bracket for panel-mount | 46.00 | MEX5-G**.B** |

Process connection

| | | |
|---------|-------------|--------------|
| 1/2 NPT | 0.00 | MEX5-*6*.B** |
|---------|-------------|--------------|

Options (additional costs)

| | | |
|---|--------------|------|
| Laminated safety glass | 4.50 | / |
| Window polycarbonate | 9.80 | 0751 |
| Micro adjustable pointer (P > 1.6 bar) | 3.60 | 0753 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 | 0678 |
| Blow out disc at the back | 7.90 | 0078 |
| Restrictor screw | 8.00 | 0760 |
| Measuring element (free of oil and greace) | 14.80 | 0771 |
| Silicone-free with mark on dial | 13.20 | 0764 |
| Adjustable pointer on dial (only without glycerin filling) | 9.40 | 0794 |
| Adjustable pointer on window | 28.20 | 0051 |
| | | 0053 |

Certificates (Net-Prices)

| | | |
|---|--------------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q009 |

Example ordering code

| | | |
|--|--------|---|
| MEX5-D30.B20/0751_Q008 | 125.50 | ◀ |
| MEX5 nominal size 100, connection bottom G 1/2, dry, 0...6 bar | | |

Availability

| | | |
|------------|--------------------|-----------------|
| stock item | upon manufacturing | - not available |
|------------|--------------------|-----------------|

MEX8

Industrial pressure gauge stainless steel - nominal size 160

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|------------------------------------|
| Accuracy | Class 1.0 (according to EN 837-1) |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Bourdon tube | DIN case, bajonet |
| Connection | Stainless steel 1.4404 (AISI 316L) |
| Window | Stainless steel 1.4404 (AISI 316L) |
| Ambient temperature | Instrument glass -20°C ... 70°C |



| | | Ø 160 mm G 1/2 | | | |
|--------------------------|----------------------|---------------------|---------------------|---------------------|---------------|
| | | bottom | rear | bottom | rear |
| Damping liquid | unfilled | | | Glycerine | Glycerine |
| Ordering code ► | MEX8-D30.B** | MEX8-F30.B** | MEX8-D31.B** | MEX8-F31.B** | ** ▾ |
| Pressure range | Price in Euro | 186.80 | 200.50 | 209.30 | 223.00 |
| -1 ... 0 bar | 10287474 | 11209780 | 10287591 | 11209790 | 59 |
| -1 ... 0.6 bar | 10287479 | 10287794 | 10287592 | 11209791 | 72 |
| -1 ... 1.5 bar | 10287481 | 11209781 | 10287594 | 11209792 | 74 |
| | Price in Euro | 166.50 | 180.20 | 189.00 | 202.70 |
| -1 ... 3 bar | 10287485 | 11209782 | 11133494 | 11209793 | 76 |
| -1 ... 5 bar | 10287490 | 10287795 | 10287598 | 11209794 | 77 |
| -1 ... 9 bar | 10287493 | 10287797 | 10287600 | 11209763 | 79 |
| -1 ... 15 bar | 10287494 | 11045507 | 11112365 | 11209764 | 81 |
| -1 ... 24 bar | 11133489 | 11209783 | 11093930 | 11209765 | 82 |
| | Price in Euro | 180.50 | 194.20 | 203.00 | 216.70 |
| 0 ... 0.6 bar | 10287357 | 10287785 | 10287527 | 10287803 | 12 |
| 0 ... 1 bar | 10287360 | 11094741 | 10287528 | 11209766 | 15 |
| 0 ... 1.6 bar | 10287364 | 11176083 | 10287532 | 11209767 | 16 |
| 0 ... 2.5 bar | 10287366 | 11209784 | 10287534 | 11209768 | 18 |
| | Price in Euro | 161.30 | 175.00 | 183.80 | 197.50 |
| 0 ... 4 bar | 10287370 | 11047120 | 10287537 | 11209769 | 19 |
| 0 ... 6 bar | 10287380 | 11013819 | 10287543 | 10287804 | 20 |
| 0 ... 10 bar | 10287389 | 10287786 | 10287550 | 11126795 | 22 |
| 0 ... 16 bar | 10287400 | 10287787 | 10287554 | 11014188 | 24 |
| 0 ... 25 bar | 10287410 | 11128548 | 10287560 | 10287807 | 26 |
| | Price in Euro | 177.50 | 191.20 | 200.00 | 213.70 |
| 0 ... 40 bar | 10287429 | 10287788 | 10287563 | 11103272 | 27 |
| 0 ... 60 bar | 10287439 | 11209785 | 10287569 | 11209797 | 29 |
| 0 ... 100 bar | 10287446 | 10287789 | 10287571 | 11209798 | 31 |
| 0 ... 160 bar | 10287451 | 10287790 | 10287575 | 11209799 | 33 |
| 0 ... 250 bar | 10287457 | 11128547 | 10287580 | 11209800 | 35 |
| 0 ... 400 bar | 10287461 | 11209786 | 10287582 | 11209801 | 38 |
| 0 ... 600 bar | 10287465 | 11209787 | 10287584 | 11209802 | 39 |
| | Price in Euro | 211.10 | 224.80 | 233.60 | 247.30 |
| 0 ... 1000 bar | 10287470 | 11209789 | 10287587 | 11209803 | 41 |
| 0 ... 1600 bar | 10287471 | 10287792 | 10287589 | 11209804 | 42 |
| Material number ► | | ▲ | ▲ | ▲ | ▲ |

Mounting type connection (surcharge to mounting typ D)

| | | |
|--|--------------|--------------|
| Bottom, 3 lugs for wall-mount | 11.80 | MEX8-A**.B** |
| Rear, front ring for panel-mount, 3 mounting holes | 47.30 | MEX8-B**.B** |
| Rear, 3 lugs for wall-mount | 25.50 | MEX8-E**.B** |

Process connection

| | | |
|---------|-------------|--------------|
| 1/2 NPT | 0.00 | MEX8-*6*.B** |
|---------|-------------|--------------|

Options (additional costs)

| | | |
|---|--------------|------|
| Laminated safety glass | 7.40 | / |
| Window polycarbonate | 11.90 | 0751 |
| Friction pointer adjustable | 9.20 | 0753 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 | 0679 |
| Restrictor screw | 8.00 | 0078 |
| Measuring element (free of oil and greace) | 14.80 | 0771 |
| Silicone-free with mark on dial | 13.20 | 0764 |
| Adjustable pointer on dial (only without glycerin filling) | 9.40 | 0794 |
| Adjustable pointer on window | 28.40 | 0051 |
| | | 0053 |

Certificates (Net-Prices)

| | | |
|---|--------------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q009 |

Example ordering code

| | | |
|--|---------------|---|
| MEX8-D30.B20/0751_Q008 | 211.70 | ◀ |
| MEX8 nominal size 160, connection bottom G 1/2, dry, 0...6 bar | | |

Availability

| | | |
|------------|--------------------|-----------------|
| stock item | upon manufacturing | - not available |
|------------|--------------------|-----------------|

MFP5 / MFP8

High pressure gauge stainless steel - nominal size 100, 160



- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|---|
| Accuracy | Class 1.0 (EN 837-1, DIN 16001) |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Bourdon tube | S3 safety case (EN 837-1, DIN 16001) |
| Connection | 1.4404 (AISI 316L), Ni Span C-902 or HP160 (depending on the range) |
| Window | Stainless steel 1.4404 (AISI 316L) or 1.4571 (AISI 316Ti) |
| Ambient temperature | Laminated safety glass -20°C ... 70°C |

| Nominal size | Ø 100 mm | | Ø 160 mm | |
|--------------------------|----------------------------------|---------------------|----------------------------------|---------------------|
| | M16 x 1.5 female, conical | | M16 x 1.5 female, conical | |
| Connection | bottom | bottom | bottom | bottom |
| Damping liquid | unfilled | Glycerine | unfilled | Glycerine 1) |
| Ordering code ► | MFP5-DU0.B** | MFP5-DU1.B** | MFP8-DU0.B** | MFP8-DU1.B** |
| Price in EUR | 635.20 | 676.20 | 778.10 | 843.10 |
| Pressure range | 0..2'000 bar | | | |
| | 0..2'500 bar | | | |
| | 0..3'000 bar | | | |
| | Price in EUR | 1287.30 | 1328.30 | 1552.80 |
| | 0..4'000 bar | | | |
| | 0..5'000 bar | - | - | |
| | Price in EUR | - | - | 1821.10 |
| | 0..6'000 bar | - | - | |
| | 0..7'000 bar | - | - | |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Mounting type connection (surcharge to mounting typ D)

| | | |
|--|-------|--------------|
| Bottom, 3 lugs for wall-mount | 35.20 | MFP*-A**.B** |
| Rear, front ring for panel-mount, 3 mounting holes | 45.90 | MFP*-C**.B** |

Process connection

| | | |
|----------------------------|------|--------------|
| 9/16" - 18 UNF (autoclave) | 0.00 | MFP*-x**.B** |
| G 1/2 (max. 2'500 bar) | 0.00 | MFP*-*3*.B** |

Certificates (Net-Prices)

| | | |
|---|-------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | o.r. | Q009 |

1) pressure ranges ≥ 0...4000 bar: White Oil

| | | | |
|---|--------------------------|--------------------|-----------------|
| Example ordering code | MFP8-D30.B96/Q003 | 827.10 | ◀ |
| MFP8 nominal size 160, connection bottom G 1/2, dry, 0...2500 bar | | | |
| 3.1 material certificate | | | |
| Availability | stock item | upon manufacturing | - not available |

MPT1 / MPT2

Utility pressure gauge ABS / brass - nominal size 40 / 50

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|-----------------------------------|
| Accuracy | Class 2.5 (according to EN 837-1) |
| Protection rating | IP32 (EN 60529) |
| Housing | ABS, black |
| Bourdon tube | Window snap-fitted to the case |
| Connection | Copper alloy |
| Window | Acrylic glass |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 40 mm | | Ø 50 mm | |
|--------------------------|---------------------|---------------------|---------------------|---------------------|
| | G 1/8 | G 1/4 | G 1/8 | G 1/4 |
| Connection | bottom | rear | bottom | rear |
| Damping liquid | unfilled | unfilled | unfilled | unfilled |
| Ordering code ► | MPT1-D10.B** | MPT1-F10.B** | MPT2-D20.B** | MPT2-F20.B** |
| Price in Euro | 9.30 | 9.60 | 10.20 | 10.20 |
| Pressure range | -1 ... 0 bar | | | |
| | 0 ... 1 bar | | | |
| Price in Euro | 7.60 | 7.90 | 8.50 | 8.50 |
| | 0 .. 1.6 bar | | | |
| | 0 .. 2.5 bar | | | |
| Price in Euro | 7.60 | 7.90 | 8.50 | 8.50 |
| | 0 ... 4 bar | | | |
| | 0 ... 6 bar | | | |
| | 0 ... 10 bar | | | |
| | 0 ... 16 bar | | | |
| | 0 ... 25 bar | | | |
| | 0 ... 40 bar | | | |
| | 0 ... 60 bar | | | |
| | 0 ... 100 bar | | | |
| | 0 ... 160 bar | | | |
| | 0 ... 250 bar | | | |
| Material number ► | | | | |

** ▾

59

15

16

18

19

20

22

24

26

27

29

31

33

35



Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | | |
|------------------------------|--|-------------|---|
| Example ordering code | MPT1-D10.B20 | 7.60 | ◀ |
| | MPT1 nominal size 40, connection bottom G 1/8, unfilled, 0...6 bar | | |

| | | | |
|---------------------|-------------------|---------------------------|------------------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|-------------------|---------------------------|------------------------|

MPT3

Utility pressure gauge ABS / brass - nominal size 63

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|-----------------------------------|
| Accuracy | Class 2.5 (according to EN 837-1) |
| Protection rating | IP32 (EN 60529) |
| Housing | ABS, black |
| Bourdon tube | Window snap-fitted to the case |
| Connection | Copper alloy |
| Window | Copper alloy |
| Ambient temperature | Acrylic glass -20°C ... 70°C |



| Nominal size | Ø 63 mm | | - | |
|--------------------------|----------------------|---------------------|-------------|-------------|
| | G 1/4 | | - | |
| Connection | bottom | rear | | |
| | | | | |
| Damping liquid | unfilled | unfilled | - | - |
| Ordering code ► | MPT3-D20.B** | MPT3-F20.B** | - | - |
| | Price in Euro | 9.30 | 9.30 | ** ▾ |
| Pressure range | -1 ...0 bar | | - | - |
| | 0 ...1 bar | | - | - |
| | 0 ..1.6 bar | | - | - |
| | 0 ..2.5 bar | | - | - |
| | Price in Euro | 8.50 | 8.50 | |
| | 0 ...4 bar | | - | - |
| | 0 ...6 bar | | - | - |
| | 0 ...10 bar | | - | - |
| | 0 ...16 bar | | - | - |
| | 0 ...25 bar | | - | - |
| | 0 ...40 bar | | - | - |
| | Price in Euro | 9.30 | 9.30 | |
| | 0 ...60 bar | | - | - |
| | 0...100 bar | | - | - |
| | 0..160 bar | | - | - |
| | 0..250 bar | | - | - |
| Material number ► | | ▲ | ▲ | ▲ |
| | | | ▲ | ▲ |



Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | | |
|------------------------------|---|------|---|
| Example ordering code | MPT3-F20.B20 | 8.50 | ◀ |
| | MPT3 nominal size 63, connection bottom G 1/4, dry, 0...6 bar | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

MAT1 / MAT2

Utility pressure gauge steel / brass - nominal size 40 / 50

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|---------------------|-----------------------------------|
| Accuracy | Class 2.5 (according to EN 837-1) |
| Protection rating | IP32 (EN 60529) |
| Housing | Steel, black |
| Bourdon tube | Bezel ring, removable |
| Connection | Copper alloy |
| Window | Copper alloy |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 40 mm | | Ø 50 mm | |
|-------------------|-----------------------------|----------------------|----------------------|----------------------|
| | G 1/8 | | G 1/4 | |
| Connection | bottom | rear | bottom | rear |
| Damping liquid | unfilled | unfilled | unfilled | unfilled |
| Ordering code ► | MAT1-D10.B** | MAT1-F10.B** | MAT2-D20.B** | MAT2-F20.B** |
| Price in Euro | 9.30 | 9.60 | 10.20 | 10.20 |
| Pressure range | -1 ... 0 bar 0 ... 1 bar | 10272294 10272281 | 10272313 10272296 | 11155915 10272327 |
| Price in Euro | 7.60 | 7.90 | 8.50 | 8.50 |
| | 0 .. 1.6 bar | 10272282 | 10272297 | 11196002 |
| | 0 .. 2.5 bar | 10272283 | 10272298 | 10272357 |
| Price in Euro | 7.60 | 7.90 | 8.50 | 8.50 |
| | 0 ... 4 bar | 10272284 | 10272299 | 10272358 |
| | 0 ... 6 bar | 10272285 | 10272301 | 10272359 |
| | 0 ... 10 bar | 10272286 | 10272303 | 10272360 |
| | 0 ... 16 bar | 10272287 | 10272305 | 10272361 |
| | 0 ... 25 bar | 10272288 | 10272306 | 10272362 |
| | 0 ... 40 bar | 10272289 | 10272307 | 10272363 |
| | 0 ... 60 bar | 10272290 | 10272308 | 10325495 |
| | 0 ... 100 bar | 10272291 | 10272309 | 11195988 |
| | 0 ... 160 bar | 10272292 | 10272310 | 11196004 |
| | 0 ... 250 bar | 10272293 | 10272311 | 11196005 |
| Material number ► | | | | |



Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | |
|---|--------------|------|
| Example ordering code | MAT1-D10.B20 | 7.60 |
| MAT1 nominal size 40, connection bottom G 1/8, dry, 0...6 bar | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

MAT3

Utility pressure gauge steel / brass - nominal size 63

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|------------------------------------|
| Accuracy | Class 2.5 (according to EN 837-1) |
| Protection rating | IP32 (EN 60529) |
| Housing | Steel, black |
| Bourdon tube | Bezel ring, removable |
| Connection | Copper alloy |
| Window | Copper alloy |
| Ambient temperature | Instrument glass -20°C ... 70°C |



| Nominal size | Ø 63 mm | | - | - |
|--------------------------|---------------------|---------------------|----------|----|
| Process connection | G 1/4 | | - | - |
| Connection | bottom | rear | - | - |
| Damping liquid | unfilled | unfilled | - | - |
| Ordering code ► | MAT3-D20.B** | MAT3-F20.B** | - | - |
| Price in Euro | 9.80 | 9.80 | - | - |
| Pressure range | -1 ... 0 bar | 10272396 | 10272423 | 59 |
| | 0 ... 1 bar | 10272382 | 10272416 | 15 |
| | 0 ... 1.6 bar | 10272383 | 11157487 | 16 |
| | 0 ... 2.5 bar | 10272384 | 10272417 | 18 |
| Price in Euro | 8.50 | 8.50 | - | - |
| | 0 ... 4 bar | 10272385 | 10272418 | 19 |
| | 0 ... 6 bar | 10272386 | 10272419 | 20 |
| | 0 ... 10 bar | 10272387 | 10272420 | 22 |
| | 0 ... 16 bar | 10272388 | 10272421 | 24 |
| | 0 ... 25 bar | 10272389 | 10272422 | 26 |
| | 0 ... 40 bar | 10272390 | 11196007 | 27 |
| Price in Euro | 9.30 | 9.30 | - | - |
| | 0 ... 60 bar | 10272391 | 11155937 | 29 |
| | 0 ... 100 bar | 10272392 | 11196008 | 31 |
| | 0 ... 160 bar | 10272393 | 11196009 | 33 |
| | 0 ... 250 bar | 10272394 | 11196030 | 35 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |



Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | | |
|---|---------------------|------|---|
| Example ordering code | MAT3-F20.B20 | 8.50 | ◀ |
| MAT3 nominal size 63, connection bottom G 1/4, dry, 0...6 bar | | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

MAT5

Utility pressure gauge steel / brass - nominal size 100

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|---------------------|------------------------------------|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP32 (EN 60529) |
| Housing | Steel, black |
| Bourdon tube | Bezel ring, removable |
| Connection | Copper alloy |
| Window | Copper alloy |
| Ambient temperature | Instrument glass -20°C ... 70°C |



| Nominal size | Ø 100 mm | | - | |
|-------------------|---------------|--------------|----------|----|
| | G 1/2 | | | |
| Connection | bottom | rear | | |
| Damping liquid | unfilled | unfilled | - | - |
| Ordering code ► | MAT5-D30.B** | MAT5-F30.B** | - | - |
| Price in Euro | 16.40 | 16.40 | - | - |
| Pressure range | -1 ... 0 bar | 10272465 | 11156032 | 59 |
| | 0 ... 1 bar | 10272451 | 11156021 | 15 |
| | 0 ... 1.6 bar | 10272452 | 11210115 | 16 |
| | 0 ... 2.5 bar | 10272453 | 11156023 | 18 |
| Price in Euro | 16.10 | 16.10 | - | - |
| | 0 ... 4 bar | 10272454 | 11156024 | 19 |
| | 0 ... 6 bar | 10272455 | 11156027 | 20 |
| | 0 ... 10 bar | 10272456 | 11156028 | 22 |
| | 0 ... 16 bar | 10272457 | 11156029 | 24 |
| | 0 ... 25 bar | 10272458 | 11156031 | 26 |
| | 0 ... 40 bar | 10272459 | 11210116 | 27 |
| Price in Euro | 16.40 | 16.40 | - | - |
| | 0 ... 60 bar | 10272460 | 11210118 | 29 |
| | 0 ... 100 bar | 10272461 | 11210119 | 31 |
| | 0 ... 160 bar | 10272462 | 11210120 | 33 |
| | 0 ... 250 bar | 10272463 | 11210121 | 35 |
| Material number ► | | ▲ | ▲ | ▲ |



Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | | |
|-----------------------|--|-------|---|
| Example ordering code | MAT5-F30.B20 | 16.10 | ◀ |
| | MAT5 nominal size 100, bottom connection, dry, 0...6 bar | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

MIT3

Utility pressure gauge stainless steel / brass - nominal size 63

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|---|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP54 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) Bezel ring crimped on case |
| Bourdon tube | Copper alloy |
| Connection | Copper alloy |
| Window | Polycarbonate |
| Ambient temperature | -10°C ... 70°C |



| Nominal size | Ø 63 mm | | | |
|-------------------|---------------------|---------------------|---|---------------------|
| | G 1/4 | bottom | rear with front ring for panel-mount | rear |
| Damping liquid | unfilled | unfilled | unfilled | unfilled |
| Ordering code ► | MIT3-D20.B** | MIT3-B20.B** | MIT3-F20.B** | MIT3-G20.B** |
| Pressure range | Price in Euro | 19.10 | 19.80 | 19.80 |
| | -1 ... 0 bar | 10325559 | 11195907 | 10325596 |
| | 0 ... 1 bar | 10325663 | 11195892 | 10325567 |
| | Price in Euro | 18.00 | 18.70 | 18.70 |
| | 0 ... 1.6 bar | 10325664 | 11195893 | 10325568 |
| | 0 ... 2.5 bar | 10325665 | 11195894 | 10325569 |
| | 0 ... 4 bar | 10325667 | 11195895 | 10325570 |
| | 0 ... 6 bar | 10325547 | 11195896 | 10325571 |
| | 0 ... 10 bar | 10325548 | 11195897 | 10325572 |
| | 0 ... 16 bar | 10325549 | 11195898 | 10325588 |
| | 0 ... 25 bar | 10325551 | 11195899 | 10325589 |
| | 0 ... 40 bar | 10325552 | 11195900 | 11155861 |
| | 0 ... 60 bar | 10325553 | 11195901 | 10325590 |
| | 0 ... 100 bar | 10325554 | 11195902 | 10325591 |
| | 0 ... 160 bar | 10325555 | 11195903 | 10325592 |
| | 0 ... 250 bar | 10325556 | 11195904 | 10325593 |
| | Price in Euro | 19.10 | 19.80 | 19.80 |
| | 0 ... 400 bar | 11195908 | 11013309 | 11195910 |
| | 0 ... 600 bar | 11195909 | 11195905 | 11195911 |
| Material number ► | | ▲ | ▲ | ▲ |
| | | | | ▲ |

Process connection

1/4 NPT (only with double scale psi/bar, pressure ranges and availability upon request)

0.00

MIT3-*5*.S**



Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | | |
|---|--------------|--------------------|-----------------|
| Example ordering code | MIT3-F20.B26 | 18.70 | ◀ |
| MIT3 nominal size 63, connection center back G 1/4, dry, 0...25 bar | | | |
| Availability | stock item | upon manufacturing | - not available |

MIT3

Utility pressure gauge stainless steel / brass - nominal size 63

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|---|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP54 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) Bezel ring crimped on case |
| Bourdon tube | Copper alloy |
| Connection | Copper alloy |
| Window | Polycarbonate |
| Ambient temperature | -10°C ... 70°C |



| Nominal size | Ø 63 mm | | | |
|--------------------|---------------------|---|---------------------|--------------------------------------|
| | G 1/4 | | | |
| Process connection | bottom | rear with front ring for panel-mount | rear | rear for panel-mount with U-clamp |
| Damping liquid | Glycerine | Glycerine | Glycerine | Glycerine |
| Ordering code ► | MIT3-D22.B** | MIT3-B22.B** | MIT3-F22.B** | MIT3-G22.B** |
| Pressure range | Price in Euro | 22.60 | 23.30 | 23.30 |
| -1 ... 0 bar | | 10288225 | 10288199 | 10288320 |
| 0 ... 1 bar | | 10288206 | 10288184 | 10288306 |
| Price in Euro | 21.50 | 22.20 | 22.20 | 24.00 |
| 0 ... 1.6 bar | | 10288207 | 11210123 | 11210125 |
| 0 ... 2.5 bar | | 10288208 | 10288185 | 10288307 |
| 0 ... 4 bar | | 10288209 | 10288186 | 10288308 |
| 0 ... 6 bar | | 10288212 | 10288187 | 10288309 |
| 0 ... 10 bar | | 10288213 | 10288188 | 10288310 |
| 0 ... 16 bar | | 10288214 | 10288189 | 10288311 |
| 0 ... 25 bar | | 10288216 | 10288190 | 10288312 |
| 0 ... 40 bar | | 10288217 | 10288191 | 10288313 |
| 0 ... 60 bar | | 10288218 | 10288192 | 10288314 |
| 0 ... 100 bar | | 10288219 | 10288193 | 10288315 |
| 0 ... 160 bar | | 10288220 | 10288195 | 10288316 |
| 0 ... 250 bar | | 10288221 | 10288196 | 10288317 |
| Price in Euro | 22.60 | 23.30 | 23.30 | 25.10 |
| 0 ... 400 bar | | 10288222 | 10288197 | 10288318 |
| 0 ... 600 bar | | 10288223 | 10288198 | 10288319 |
| Material number ► | | ▲ | ▲ | ▲ |

Process connection

1/4 NPT (only with double scale psi/bar, pressure ranges and availability upon request)

0.00

MIT3-*5*.S**

Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | | |
|--|---------------------|--------------------|-----------------|
| Example ordering code | MIT3-F22.B26 | 22.20 | ◀ |
| MIT3 nominal size 63, connection center back G 1/4, Glycerin, 0...25 bar | | | |
| Availability | stock item | upon manufacturing | - not available |

MIT5

Utility pressure gauge stainless steel / brass - nominal size 100

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|--|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) Crimped housing |
| Bourdon tube | Copper alloy |
| Connection | Copper alloy |
| Window | Polycarbonate |
| Ambient temperature | -10°C ... 70°C |



| Nominal size | Ø 100 mm | | | |
|--------------------------|---------------------|---------------------|---------------------|---------------------|
| | G 1/2 | | | |
| Process connection | bottom | rear | bottom | rear |
| Connection | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code ► | MIT5-D30.B** | MIT5-F30.B** | MIT5-D32.B** | MIT5-F32.B** |
| Price in Euro | 55.00 | 55.00 | 68.40 | 68.40 |
| Pressure range | -1 ... 0 bar | 11195954 | 11195980 | 11195957 |
| | 0 ... 1 bar | 11155864 | 11195959 | 10288395 |
| Price in Euro | 46.90 | 46.90 | 60.30 | 60.30 |
| | 0 ... 1.6 bar | 11195939 | 11195960 | 11195955 |
| | 0 ... 2.5 bar | 11155865 | 11195961 | 10288396 |
| | 0 ... 4 bar | 11155866 | 11155873 | 11195956 |
| | 0 ... 6 bar | 11155867 | 11155874 | 10288398 |
| | 0 ... 10 bar | 11155868 | 11155884 | 10288400 |
| | 0 ... 16 bar | 11155869 | 11155885 | 10288402 |
| | 0 ... 25 bar | 11155870 | 11155886 | 10288405 |
| | 0 ... 40 bar | 11155872 | 11195962 | 10288406 |
| | 0 ... 60 bar | 11195950 | 11195964 | 10288407 |
| Price in Euro | 67.70 | 67.70 | 81.10 | 81.10 |
| | 0 ... 100 bar | 11195951 | 11195965 | 10288408 |
| | 0 ... 160 bar | 11195952 | 11195967 | 10288409 |
| | 0 ... 250 bar | 11195953 | 11195968 | 10288410 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

| | | |
|---|---------------------|-------|
| Example ordering code | MIT5-F32.B26 | 60.30 |
| MIT5 nominal size 100, connection center back G 1/2, Glycerin, 0...25 bar | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

MTR1 / MTR2

Utility pressure gauge stainless steel / brass - nominal size 40 / 50 (pneumatic)

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|----------------------------|--|
| Accuracy | Class 2.5 (according to EN 837-1) |
| Protection rating | IP32 (EN 60529) |
| Case and bezel ring | Stainless steel 1.4301 (AISI 304) Bezel ring, removable |
| Bourdon tube | Copper alloy |
| Connection | Copper alloy |
| Window | Instrument glass |
| Scaling | Triple scale bar, kg/cm ² , psi |
| Ambient temperature | -20°C ...70°C |



| Nominal size | $\varnothing 40 \text{ mm}$ | | $\varnothing 50 \text{ mm}$ | | |
|------------------------|---|--|--|--|------------------|
| | 1/8 NPT rear | 1/4 NPT rear | 1/4 NPT bottom | | |
| Damping liquid | unfilled | unfilled | unfilled | | |
| Ordering code ► | MTR1-F40.B** | MTR1-F50.B** | MTR2-D50.B** | - | |
| Price in Euro | 18.50 | 18.50 | 20.60 | ** ▼ | |
| Pressure range | 0 ... 2.5 bar 0 ... 4 bar 0 ... 6 bar 0 ... 10 bar | 10294292 10294293 10294294 10294295 | 10294297 10294298 10294299 10294300 | 10294304 10294305 10294306 10294307 | - - - - |
| Material number ► | | ▲ | ▲ | ▲ | |

Example ordering code

MTR1-F40.B21

18.50

MTR1 nominal size 40, back connection 1/8 NPT, dry, 0...7 bar

Availability

stock item

upon manufacturing

- not available

MTA2

Capsule pressure gauge - nominal size 50

► Please use exclusively the material number for standard products

► Please use the ordering code for configurated products with options, certificates, ...



Accuracy Class 1.6 (according to EN 837-3)

Zero adjustment screw on front side

Protection rating IP44 (EN 60529), version bottom connection IP33

Housing Stainless steel 1.4301 (AISI 304)

Measuring element Capsule

Copper alloy

Connection Copper alloy

Window Polycarbonate, snap-fitted into the case

Ambient temperature -20°C ... 60°C

Nominal size

Process connection

Connection

| Damping liquid | Ø 50 mm | | | |
|-------------------|--------------|--------------|--------------|--------------|
| | G 1/4 | | | |
| Ordering code ► | MTA2-D20.N** | MTA2-F20.N** | MTA2-B20.N** | MTA2-G20.N** |
| Pressure range | | | | **▼ |
| Price in Euro | 98.60 | 92.40 | 98.60 | 116.20 |
| -25 ... 40 mbar | 11014874 | 11128292 | 11195992 | 11196121 |
| -40 ... 60 mbar | 11196064 | 11196091 | 11195994 | 11196122 |
| Price in Euro | 93.80 | 87.60 | 93.80 | 111.40 |
| -60 ... 100 mbar | 10293912 | 11196092 | 11195998 | 11196124 |
| Price in Euro | 98.60 | 92.40 | 98.60 | 116.20 |
| 0 ... 60 mbar | 10293900 | 10293929 | 10293888 | 10293953 |
| 0 ... 100 mbar | 10293901 | 10293931 | 10293889 | 10293954 |
| Price in Euro | 93.80 | 87.60 | 93.80 | 111.40 |
| 0 ... 160 mbar | 10293902 | 10293933 | 10293890 | 11016671 |
| 0 ... 250 mbar | 10293903 | 10293934 | 11195948 | 10293955 |
| 0 ... 400 mbar | 10293905 | 10293935 | 10293891 | 11138953 |
| 0 ... 600 mbar | 10293906 | 10293936 | 10293892 | 10293957 |
| Price in Euro | 98.60 | 92.40 | 98.60 | 116.20 |
| -60 ... 0 mbar | 10293907 | 10293939 | 11180927 | 11196095 |
| -100 ... 0 mbar | 10293908 | 10293941 | 11195971 | 11196096 |
| Price in Euro | 93.80 | 87.60 | 93.80 | 111.40 |
| -160 ... 0 mbar | 10293909 | 11196076 | 11195974 | 11196097 |
| -250 ... 0 mbar | 10293910 | 11196079 | 11195976 | 11196098 |
| -400 ... 0 mbar | 10293911 | 10293942 | 11195978 | 11196099 |
| -600 ... 0 mbar | 11196061 | 11196090 | 11195990 | 11196120 |
| -100 ... 160 mbar | 11196067 | 11181533 | 11196010 | 11196123 |
| -160 ... 250 mbar | 11196070 | 11196093 | 11196047 | 11196125 |
| -250 ... 400 mbar | 11196073 | 11196094 | 11196049 | 11196126 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Process connection

| | | |
|---------|------|--------------|
| 1/4 NPT | 0.00 | MTA2-*50.N** |
|---------|------|--------------|

Certificates (Net-Prices)

| | | | |
|---|-------|---|------|
| 2.1 certificate | 23.50 | / | Q001 |
| 2.2 certificate | 32.60 | | Q002 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | | Q009 |

Example ordering code

MTA2-F20.N10

87.60

MTA2 nominal size 50, connection center back, G 1/4, dry, 0...250 mbar

Availability

stock item

upon manufacturing

- not available

MTA3

Capsule pressure gauge - nominal size 63



► Please use exclusively the material number for standard products

► Please use the ordering code for configurated products with options, certificates, ...

Accuracy

Class 1.6 (according to EN 837-3)

Zero adjustment screw on front side

Protection rating

IP44 (EN 60529), version bottom connection IP33

Housing

Stainless steel 1.4301 (AISI 304)

Measuring element

Capsule

Copper alloy

Connection

Copper alloy

Window

Polycarbonate, snap-fitted into the case

Ambient temperature

-20°C ... 60°C

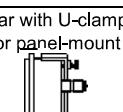
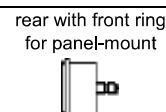
Nominal size

Ø 63 mm

Process connection

G 1/4

Connection



Damping liquid

MTA3-D20.N**

MTA3-F20.N**

MTA3-B20.N**

MTA3-G20.N**

**▼

Ordering code ►

Price in Euro

103.30

98.70

113.70

122.70

Pressure range

-25 ... 40 mbar

10294003

10294093

11196129

11196147

64

-40 ... 60 mbar

10294004

10294094

10293975

11196175

65

Price in Euro

98.20

93.60

108.60

117.60

**▼

-60 ... 100 mbar

10294007

10356079

10293976

11196177

66

Price in Euro

103.30

98.70

113.70

122.70

**▼

0 ... 60 mbar

11012109

10294079

10293964

10294109

07

0 ... 100 mbar

11012132

10294082

10293965

10294111

08

Price in Euro

98.20

93.60

108.60

117.60

**▼

0 ... 160 mbar

10293991

10294083

10293966

11099102

09

0 ... 250 mbar

10293992

10294084

10293967

10294112

10

0 ... 400 mbar

11012133

11012134

10293968

11047933

11

0 ... 600 mbar

10293995

10294086

10293969

10294113

12

Price in Euro

103.30

98.70

113.70

122.70

**▼

-60 ... 0 mbar

10293996

10294087

10293970

11105372

53

-100 ... 0 mbar

10293997

10294088

10293971

10294114

54

Price in Euro

98.20

93.60

108.60

117.60

**▼

-160 ... 0 mbar

10293999

10294089

11014674

11196145

55

-250 ... 0 mbar

10294000

10294090

10293973

10294115

56

-400 ... 0 mbar

10294001

10294092

10293974

10294116

57

-600 ... 0 mbar

10294002

11196142

11196128

11196146

58

-100 ... 160 mbar

10294008

10294095

11094104

11196190

67

-160 ... 250 mbar

10294009

11196143

10293977

11196191

68

-250 ... 400 mbar

11196141

11196144

11196140

11196192

69

Material number ►

▲

▲

▲

▲

Process connection

1/4 NPT

10.40

MTA3-*50.N**

Certificates (Net-Prices)

/

2.1 certificate

23.50

Q001

2.2 certificate

32.60

Q002

3.1 calibration certificate - 5 points increasing, 1 point decreasing

43.00

Q008

3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing

55.00

Q009

Example ordering code

MTA3-F20.N11

93.60

◀

MTA3 nominal size 63, connection center back, G 1/4, dry, 0...400 mbar

Availability

stock item

upon manufacturing

- not available

MTA5

Capsule pressure gauge - nominal size 100



- Please use exclusively the material number for standard products
- Please use the ordering code for configured products with options, certificates, ...

| | | | | |
|----------------------------|--|---------------------|--------------------------------------|---------------------------------|
| Accuracy | Class 1.6 (according to EN 837-3) Zero adjustment screw on front side | | | |
| Protection rating | IP44 (EN 60529), version bottom connection IP33 | | | |
| Housing | Stainless steel 1.4301 (AISI 304) | | | |
| Measuring element | Capsule Copper alloy | | | |
| Connection | Copper alloy | | | |
| Window | Polycarbonate, snap-fitted into the case | | | |
| Ambient temperature | -20°C ... 60°C | | | |
| Nominal size | Ø 100 mm | | | |
| Process connection | G 1/2 | | | |
| Connection | bottom | rear | rear with front ring for panel-mount | rear with 3 lugs for wall-mount |
| Damping liquid | unfilled | unfilled | unfilled | unfilled |
| Ordering code ► | MTA5-D30.N** | MTA5-F30.N** | MTA5-B30.N** | MTA5-E30.N** |
| Pressure range | Price in Euro | 141.70 | 146.90 | 172.30 |
| -16 ...0 mbar | 10294179 | 11196244 | 10294143 | 11196227 |
| Price in Euro | 132.30 | 137.50 | 162.90 | 158.10 |
| -25 ...0 mbar | 10294180 | 11196245 | 10294144 | 11196229 |
| -40 ...0 mbar | 10294181 | 10294259 | 10294145 | 11196230 |
| Price in Euro | 141.70 | 146.90 | 172.30 | 167.50 |
| -6 ...10 mbar | 10294189 | 11196249 | 11196198 | 11196236 |
| Price in Euro | 132.30 | 137.50 | 162.90 | 158.10 |
| -10 ...16 mbar | 10294190 | 11196250 | 10294148 | 11196237 |
| -16 ...25 mbar | 10294191 | 11196251 | 11196201 | 11196238 |
| -25 ...40 mbar | - | - | - | 64 |
| Price in Euro | 102.70 | 107.90 | 133.30 | 128.50 |
| -40 ...60 mbar | 10294193 | 11196252 | 11196202 | 11196239 |
| -60...100 mbar | 11052044 | 11196253 | 11196203 | 11196240 |
| Price in Euro | 124.10 | 129.30 | 154.70 | 149.90 |
| 0 ...16 mbar | 10294168 | 10294250 | 10294138 | 11196209 |
| 0 ...25 mbar | 10294169 | 10294251 | 10294139 | 11196220 |
| 0 ...40 mbar | 10294170 | 10294252 | 11140699 | 11196221 |
| 0 ...60 mbar | - | - | - | 07 |
| Price in Euro | 102.70 | 107.90 | 133.30 | 128.50 |
| 0..100 mbar | 11012136 | 10294254 | 10294140 | 11196222 |
| 0..160 mbar | 10294175 | 10294255 | 10294141 | 11196207 |
| 0..250 mbar | 10294176 | 10294256 | 11119902 | 11196223 |
| 0..400 mbar | 10294177 | 10294257 | 11180521 | 11196225 |
| 0..600 mbar | 11012137 | 10294258 | 10294142 | 11196226 |
| Price in Euro | - | - | - | - |
| -60 ...0 mbar | - | - | - | 53 |
| Price in Euro | 102.70 | 107.90 | 133.30 | 128.50 |
| -100 ...0 mbar | 10294183 | 11196246 | 11196193 | 11196232 |
| -160 ...0 mbar | 10294185 | 10294260 | 10294147 | 11196233 |
| -250 ...0 mbar | 10294186 | 11196247 | 11196194 | 11196234 |
| -400 ...0 mbar | 10294187 | 11196248 | 11196195 | 11196235 |
| -600 ...0 mbar | 10294188 | 10294261 | 11196197 | 11014572 |
| -100..160 mbar | 10294194 | 11196254 | 11196204 | 11196241 |
| -160..250 mbar | 10294195 | 11196255 | 11196205 | 11196242 |
| -250..400 mbar | 10294196 | 11196256 | 11196206 | 11196243 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Mounting type connection (surcharge to mounting typ D)

Bottom, 3 lugs for wall-mount

20.60

MTA5-A**.N**

Process connection

1/2 NPT

14.20

MTA5-*6*.N**

Options (additional costs)

Restrictor screw

8.00

0771_

Certificates (Net-Prices)

2.1 certificate

23.50

Q001

2.2 certificate

32.60

Q002

3.1 calibration certificate - 5 points increasing, 1 point decreasing

43.00

Q008

3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing

55.00

Q009_

Example ordering code

MTA5-D30.N06/0771

132.10

MTA5 nominal size 100, connection bottom G 1/2, dry, 0...40 mbar

Restrictor screw

Availability

stock item

upon manufacturing

- not available

DK100

Capsule pressure gauge - nominal size 100

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|--|
| Accuracy | Class 1.6 (according to EN 837-3) |
| Protection rating | IP41 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) DIN case, bajonet |
| Measuring element | Capsule |
| Connection | Copper alloy |
| Window | Instrument glass |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 100 mm | | - | | *** ▼ |
|------------------------|--------------------------|--------------------------|----------|---|-------|
| | G 1/2 | | - | | |
| Process connection | bottom | rear | - | - | |
| Connection | | | - | - | |
| Damping liquid | unfilled | unfilled | - | - | |
| Ordering code ► | DK100-211.111.*** | DK100-212.111.*** | - | - | |
| Price in Euro | 94.90 | 94.90 | - | - | |
| Pressure range | 0 ... 25 mbar | 11196034 | 11196112 | - | 096 |
| | 0 ... 40 mbar | 11196038 | 11196113 | - | 106 |
| | 0 ... 60 mbar | 11196050 | 11196114 | - | 116 |
| | 0 ... 100 mbar | 11196052 | 11196115 | - | 126 |
| | 0 ... 160 mbar | 11196085 | 11196116 | - | 136 |
| | 0 ... 250 mbar | 11196087 | 11196117 | - | 146 |
| | 0 ... 400 mbar | 11196089 | 11196118 | - | 156 |
| Price in Euro | 109.80 | 109.80 | - | - | |
| | -40 ... 0 mbar | 11196101 | 11196119 | - | 386 |
| | -60 ... 0 mbar | 11196102 | 11196130 | - | 396 |
| | -100 ... 0 mbar | 11196105 | 11196131 | - | 406 |
| Price in Euro | 109.80 | 109.80 | - | - | |
| | -160 ... 0 mbar | 11196107 | 11196132 | - | 416 |
| | -250 ... 0 mbar | 11196109 | 11196133 | - | 426 |
| | -400 ... 0 mbar | 11196111 | 11196134 | - | 436 |
| Material number ► | ▲ | ▲ | ▲ | ▲ | |

Mounting type connection (surcharge)

| | | |
|---|--------------|-------------------|
| Bottom, 3 lugs for wall-mount | 27.40 | DK100-231.*** *** |
| Rear, front ring for panel-mount, 3 mounting holes | 43.80 | DK100-222.*** *** |
| Rear, front ring and mounting element for panel-mount | 43.80 | DK100-252.*** *** |

Certificates (Net-Prices)

| | | |
|---|--------------|------|
| 2.1 certificate | 23.50 | / |
| 2.2 certificate | 32.60 | Q001 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q002 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q008 |
| | | Q009 |

Example ordering code

DK100-211.111.136

94.90

DK100 nominal size 100, connection bottom, G 1/2, dry, 0...160 mbar

Availability

stock item

upon manufacturing

- not available

DRD100

Differential pressure gauge - Nominal size 100

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|--------------------------------|
| Accuracy | Class 1.6 |
| Protection rating | IP33 (EN 60529) |
| Housing | Steel, black |
| Measuring element | 2 x Bourdon tube, Copper alloy |
| Connection | Copper alloy |
| Display | 1 pointer, 1 rotating scale |
| Window | Instrument glass |
| Ambient temperature | -20°C ... 70°C |



| Nominal size | Ø 100 mm | | - | |
|--------------------------|---------------------------|---------------------------|---------------|--------------|
| | 2 x G 1/2 | | - | |
| Connection | bottom | bottom, wall mounting | - | - |
| Damping liquid | unfilled | unfilled | - | - |
| Ordering code ► | DRD100-111.911.*** | DRD100-131.911.*** | - | - |
| | Price in Euro | 157.90 | 198.20 | *** ▼ |
| Pressure range | 0 ... 2.5 bar | 10260734 | 11209978 | 045 |
| | 0 ... 4 bar | 10320209 | 10320192 | 055 |
| | 0 ... 6 bar | 10320211 | 10345057 | 065 |
| | 0 ... 10 bar | 10320212 | 11209979 | 075 |
| | 0 ... 16 bar | 10345045 | 11210000 | 085 |
| Material number ► | | ▲ | ▲ | ▲ |

| Certificates (Net-Prices) | | / |
|---|-------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 36.60 | Q002 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q009 |

| | | |
|---|---------------------------|--------|
| Example ordering code | DRD100-111.911.065 | 157.90 |
| DRD100 Nominal size 100, bottom connection, 2 x G 1/2, dry, 0...6 bar | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

MEX3

Industrial pressure gauges stainless steel - nominal size 63 with diaphragm seal clamp DN38

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|---|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Case and bezel ring | Stainless steel 1.4301 (AISI 304) Bajonet lock |
| Bourdon tube | Stainless steel 1.4404 (AISI 316L) |
| Window | Polycarbonate |
| Ambient temperature | -20°C ... 70°C |
| Filling fluid | Vaseline (FDA) |



| Nominal size | Ø 63 mm | | | | | |
|--------------------------------|--|--|--|--|--|---|
| | Clamp DN38 (ISO 2852) / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L) | | | | | |
| Process connection / Diaphragm | bottom | rear | bottom | rear | | |
| Connection | | | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine | | |
| Ordering code | MEX3-D20.B** | MEX3-F20.B** | MEX3-D21.B** .DANC01.2H2A.01/0753_Q003 | MEX3-F21.B** | | |
| Price in Euro | 296.00 | 298.70 | 299.90 | 302.60 | | |
| Pressure range | -1 ... 3 bar -1 ... 5 bar -1 ... 9 bar -1 ... 15 bar -1 ... 24 bar | 11208794 11208795 11208816 11208817 11208818 | 11208828 11208829 11208830 11208831 11208832 | 11176558 11204416 11176578 11208851 11208852 | 11208856 11208857 11208858 11208859 11208860 | 76 77 79 81 82 |
| Price in Euro | 309.10 | 311.80 | 313.00 | 315.70 | | |
| | 0 ... 2.5 bar | 11208819 | 11208833 | 11208853 | 11208862 | 18 |
| Price in Euro | 296.80 | 299.50 | 300.70 | 303.40 | | |
| | 0 ... 4 bar | 11208820 | 11208835 | 11208854 | 11208863 | 19 |
| | 0 ... 6 bar | 11208821 | 11208836 | 11176579 | 11208864 | 20 |
| Price in Euro | 291.00 | 293.70 | 294.90 | 297.60 | | |
| | 0 ... 10 bar | 11208822 | 11208837 | 11176580 | 11208865 | 22 |
| | 0 ... 16 bar | 11208825 | 11208838 | 11176581 | 11208866 | 24 |
| | 0 ... 25 bar | 11208826 | 11208839 | 11176582 | 11208867 | 26 |
| | 0 ... 40 bar | 11208827 | 11208850 | 11208855 | 11208868 | 27 |
| Material number | ▶ | ▲ | ▲ | ▲ | | |

| Options (additional costs) | / | |
|---|------|------|
| Laminated safety glass | 1.50 | 0751 |
| Friction pointer adjustable | 1.50 | 0679 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 | 0078 |

| Certificates (Net-Prices) | / | |
|---|-------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate (incl.) | 0.00 | Q003 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 | Q008 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 | Q009 |

| | | |
|---|--|--------|
| Example ordering code | MEX3-D21.B20.DANC01.2H2A.01/0753_Q003 | 300.70 |
| MEX3 nominal size 63, bottom connection, Glycerin, 0... 6 bar, with diaphragm seal Clamp DN38 | | |
| | Window polycarbonate, 3.1 material certificate | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

MEX3

Industrial pressure gauges stainless steel - nominal size 63 with diaphragm seal clamp DN51

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|---|
| Accuracy | Class 1.6 according to EN 837-1 |
| Protection rating | IP65 (EN 60529) |
| Case and bezel ring | Stainless steel 1.4301 (AISI 304) Bajonet lock |
| Bourdon tube | Stainless steel 1.4404 (AISI 316L) |
| Window | Polycarbonate |
| Ambient temperature | -20°C ... 70°C |
| Filling fluid | Vaseline (FDA) |



| Nominal size | Ø 63 mm | | | |
|--------------------------------|---|---|---|---|
| | Clamp DN51 (ISO 2852) / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L) | | | |
| Process connection / Diaphragm | bottom | rear | bottom | rear |
| Connection | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code | MEX3-D20.B** | MEX3-F20.B** | MEX3-D21.B** .DANC02.2H2A.01/0753_Q003 | MEX3-F21.B** |
| Pressure range | Price in Euro -1 ... 1.5 bar 361.80 | Price in Euro 11208891 341.80 | Price in Euro 11208911 344.50 | Price in Euro 11208928 345.70 |
| | 11208892 -1 ... 3 bar | 11208893 -1 ... 5 bar | 11208894 -1 ... 9 bar | 11208895 -1 ... 15 bar |
| | 11208896 -1 ... 24 bar | | 11208912 -1 ... 30 bar | 11208913 -1 ... 45 bar |
| | | | 11208914 0 ... 15 bar | 11208915 0 ... 24 bar |
| | | | 11208916 0 ... 30 bar | 11208931 0 ... 45 bar |
| | | | | 11208932 0 ... 60 bar |
| | Price in Euro 0 ... 1 bar 0 ... 1.6 bar 0 ... 2.5 bar | Price in Euro 342.60 0 ... 4 bar 0 ... 6 bar | Price in Euro 354.90 0 ... 10 bar 0 ... 16 bar 0 ... 25 bar | Price in Euro 364.50 11208917 11208918 11208919 11208920 11208922 11208923 11208924 11208925 11208927 |
| | 11208990 0 ... 3 bar | 11208990 0 ... 6 bar | 11208990 0 ... 10 bar | 11208933 11208934 11208935 11208936 11208937 11176586 11176587 11176588 11176589 11176590 |
| | 11208901 0 ... 5 bar | | | 11208944 11208945 11208946 11208947 11208948 11208949 11208952 11208962 11208963 11208964 |
| | | | | 15 16 18 19 20 22 24 26 27 |
| Material number | ► | ▲ | ▲ | ▲ |

| Options (additional costs) | / |
|---|------|
| Laminated safety glass | 1.50 |
| Friction pointer adjustable | 1.50 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 |

| Certificates (Net-Prices) | / |
|---|-------|
| 2.1 certificate | 23.50 |
| 2.2 certificate | 32.60 |
| 3.1 material certificate (incl.) | 0.00 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 |

| | | |
|---|--|--------|
| Example ordering code | MEX3-D21.B20.DANC02.2H2A.01/0753_Q003 | 346.50 |
| MEX3 nominal size 63, bottom connection, Glycerin, 0... 6 bar, with diaphragm seal Clamp DN51 Window polycarbonate, 3.1 material certificate | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

MEX5

Industrial pressure gauges stainless steel - nominal size 100 with diaphragm seal clamp DN38

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|----------------------------|------------------------------------|
| Accuracy | Class 1.0 (according to EN 837-1) |
| Protection rating | IP65 (EN 60529) |
| Case and bezel ring | Stainless steel 1.4301 (AISI 304) |
| Bourdon tube | DIN case, bajonet |
| Window | Stainless steel 1.4404 (AISI 316L) |
| Ambient temperature | Polycarbonate (Makrolon®) |
| Filling fluid | -20°C ... 70°C |
| | Vaseline (FDA) |



| Nominal size | Ø 100 mm | | | |
|-----------------|---|---------------------------|--------------|--------------|
| | Clamp DN38 (ISO 2852) / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L) | | | |
| Connection | bottom | rear | bottom | rear |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code | MEX5-D30.B** | MEX5-F30.B** | MEX5-D31.B** | MEX5-F31.B** |
| | | .DANC01.2L2A.01/0753_Q003 | | |
| Pressure range | 320.50 | 339.10 | 339.50 | 358.10 |
| -1 ... 5 bar | 11208965 | 11208975 | 11208985 | 11208989 |
| -1 ... 9 bar | 11208966 | 11208976 | 11176589 | 11208990 |
| -1 ... 15 bar | 11208967 | 11208977 | 11208986 | 11208991 |
| -1 ... 24 bar | 11208968 | 11208978 | 11208987 | 11208992 |
| Price in Euro | 314.60 | 333.20 | 333.60 | 352.20 |
| 0 ... 6 bar | 11208969 | 11208979 | 11176590 | 11208993 |
| 0 ... 10 bar | 11208970 | 11208981 | 11176591 | 11208996 |
| 0 ... 16 bar | 11208971 | 11208982 | 11176592 | 11209004 |
| 0 ... 25 bar | 11208973 | 11208983 | 11176593 | 11209009 |
| Price in Euro | 333.20 | 351.80 | 352.20 | 370.80 |
| 0 ... 40 bar | 11208974 | 11208984 | 11208988 | 11209013 |
| Material number | ▲ | ▲ | ▲ | ▲ |

| Options (additional costs) | / |
|---|-------|
| Laminated safety glass | 4.50 |
| Micro adjustable pointer (P > 1.6 bar) | 3.60 |
| ATEX CE II 2 GdC-IM2c (only with option laminated safety glass) | 4.30 |
| Blow out disc at the back | 7.90 |
| Restrictor screw | 8.00 |
| Measuring element (free of oil and greace) | 14.80 |
| Silicone-free with mark on dial | 13.20 |
| Adjustable pointer on dial (only without glycerin filling) | 9.40 |
| Adjustable pointer on window | 28.20 |
| | 0751 |
| | 0678 |
| | 0078 |
| | 0760 |
| | 0771 |
| | 0764 |
| | 0794 |
| | 0051 |
| | 0053 |

| Certificates (Net-Prices) | |
|---|-------|
| 2.1 certificate | 23.50 |
| 2.2 certificate | 32.60 |
| 3.1 material certificate (incl.) | 0.00 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 |
| | Q001 |
| | Q002 |
| | Q003 |
| | Q008 |
| | Q009 |

| | | |
|--|--|--------|
| Example ordering code | MEX5-D31.B20.DANC01.2L2A.01/0753_Q003 | 333.60 |
| MEX5 nominal size 100, bottom connection, Glycerin, 0... 6 bar, with diaphragm seal Clamp DN38 | | |
| | Window polycarbonate, 3.1 material certificate | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

MEX5

Industrial pressure gauges stainless steel - nominal size 100 with diaphragm seal clamp DN51

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|---------------------|------------------------------------|
| Accuracy | Class 1.0 (according to EN 837-1) |
| Protection rating | IP65 (EN 60529) |
| Case and bezel ring | Stainless steel 1.4301 (AISI 304) |
| Bourdon tube | DIN case, bajonet |
| Window | Stainless steel 1.4404 (AISI 316L) |
| Ambient temperature | Polycarbonate (Makrolon®) |
| Filling fluid | -20°C ... 70°C |
| | Vaseline (FDA) |



| Nominal size | Ø 100 mm | | | |
|-----------------|---|---------------------------|--------------|--------------|
| | Clamp DN51 (ISO 2852) / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L) | | | |
| Connection | bottom | rear | bottom | rear |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code | MEX5-D30.B** | MEX5-F30.B** | MEX5-D31.B** | MEX5-F31.B** |
| | | .DANC02.2L2A.01/0753_Q003 | | |
| Pressure range | Price in Euro | 366.30 | 384.90 | 385.30 |
| | -1 ... 3 bar | 11209016 | 11209029 | 11176594 |
| | -1 ... 5 bar | 11209017 | 11209050 | 11209062 |
| | -1 ... 9 bar | 11209018 | 11209051 | 11176595 |
| | -1 ... 15 bar | 11209019 | 11209052 | 11209063 |
| | -1 ... 24 bar | 11209020 | 11209053 | 11209064 |
| | Price in Euro | 382.30 | 400.90 | 401.30 |
| | 0 ... 1.6 bar | 11209021 | 11209054 | 11209066 |
| | 0 ... 2.5 bar | 11209022 | 11209055 | 11209067 |
| | Price in Euro | 360.40 | 379.00 | 379.40 |
| | 0 ... 4 bar | 11209023 | 11209056 | 11209068 |
| | 0 ... 6 bar | 11209024 | 11209057 | 11176556 |
| | 0 ... 10 bar | 11209025 | 11209058 | 11176596 |
| | 0 ... 16 bar | 11209026 | 11209059 | 11176597 |
| | 0 ... 25 bar | 11209027 | 11209060 | 11176598 |
| | Price in Euro | 379.00 | 397.60 | 398.00 |
| | 0 ... 40 bar | 11209028 | 11209061 | 11209069 |
| Material number | | ▲ | ▲ | ▲ |

| Options (additional costs) | / |
|---|-------|
| Laminated safety glass | 4.50 |
| Micro adjustable pointer (P > 1.6 bar) | 3.60 |
| ATEX CE II 2 GDc-LM2c (only with option laminated safety glass) | 4.30 |
| Blow out disc at the back | 7.90 |
| Restrictor screw | 8.00 |
| Measuring element (free of oil and grease) | 14.80 |
| Silicone-free with mark on dial | 13.20 |
| Adjustable pointer on dial (only without glycerin filling) | 9.40 |
| Adjustable pointer on window | 28.20 |

| Certificates (Net-Prices) | |
|---|-------|
| 2.1 certificate | 23.50 |
| 2.2 certificate | 32.60 |
| 3.1 material certificate (incl.) | 0.00 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 |

| | | |
|---|---------------------------------------|--------|
| Example ordering code | MEX5-D31.B20.DANC02.2L2A.01/0753_Q003 | 379.40 |
| MEX5 nominal size 100, bottom connection, Glycerin, 0...6 bar, with diaphragm seal Clamp DN51 Window polycarbonate, 3.1 material certificate | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

MEX5

Industrial pressure gauges stainless steel - nominal size 100 with diaphragm seal G 1/2

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|---------------------|------------------------------------|
| Accuracy | Class 1.0 (according to EN 837-1) |
| Protection rating | IP65 (EN 60529) |
| Case and bezel ring | Stainless steel 1.4301 (AISI 304) |
| Bourdon tube | DIN case, bajonet |
| Window | Stainless steel 1.4404 (AISI 316L) |
| Ambient temperature | Instrument glass -20°C ... 70°C |
| Filling fluid | Vaseline |



| Nominal size | Ø 100 mm | | | |
|-----------------|--|--------------------|--------------|--------------|
| | Connection G 1/2 / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L) | | | |
| Connection | | | | |
| Damping liquid | unfilled | unfilled | Glycerine | Glycerine |
| Ordering code | MEX5-D30.B** | MEX5-F30.B** | MEX5-D31.B** | MEX5-F31.B** |
| | | .DT2.2L20.0.230.01 | | ** ▾ |
| Pressure range | 323.20 | 341.80 | 342.20 | 360.80 |
| -1 ... 3 bar | 11106016 | 11209145 | 11123526 | 11209172 |
| -1 ... 5 bar | 11106017 | 11209146 | 11151830 | 11209173 |
| -1 ... 9 bar | 11106018 | 11209148 | 11183666 | 11209174 |
| -1 ... 15 bar | 11106019 | 11209149 | 11194228 | 11209175 |
| -1 ... 24 bar | 11106030 | 11209150 | 11209171 | 11209176 |
| Price in Euro | 339.20 | 357.80 | 358.20 | 376.80 |
| 0 ... 1 bar | 11106031 | 11209151 | 11121478 | 11209177 |
| 0 ... 1.6 bar | 11106033 | 11209153 | 11132842 | 11209178 |
| 0 ... 2.5 bar | 11102312 | 11209154 | 11125691 | 11209179 |
| Price in Euro | 317.30 | 335.90 | 336.30 | 354.90 |
| 0 ... 4 bar | 11106034 | 11209155 | 11102938 | 11209180 |
| 0 ... 6 bar | 11117804 | 11209156 | 11132947 | 11203625 |
| 0 ... 10 bar | 11121721 | 11209157 | 11102780 | 11209181 |
| 0 ... 16 bar | 11106035 | 11209158 | 11122646 | 11209183 |
| 0 ... 25 bar | 11102265 | 11209159 | 11145344 | 11209184 |
| Price in Euro | 335.90 | 354.50 | 354.90 | 373.50 |
| 0 ... 40 bar | 11106036 | 11209170 | 11174446 | 11209185 |
| Material number | ▲ | ▲ | ▲ | ▲ |

| Options (additional costs) | / |
|---|-------|
| Laminated safety glass | 4.50 |
| Window polycarbonate | 9.80 |
| Micro adjustable pointer (P > 1.6 bar) | 3.60 |
| ATEX CE II 2 GDc-IM2c (only with option laminated safety glass) | 4.30 |
| Blow out disc at the back | 7.90 |
| Restrictor screw | 8.00 |
| Measuring element (free of oil and greace) | 14.80 |
| Silicone-free with mark on dial | 13.20 |
| Adjustable pointer on dial (only without glycerin filling) | 9.40 |
| Adjustable pointer on window | 28.20 |

| Certificates (Net-Prices) | / |
|---|-------|
| 2.1 certificate | 23.50 |
| 2.2 certificate | 32.60 |
| 3.1 material certificate | 49.00 |
| 3.1 calibration certificate - 5 points increasing, 1 point decreasing | 43.00 |
| 3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing | 55.00 |

| | | |
|--|--------------------------------|--------|
| Example ordering code | MEX5-D31.B20.DT2-2L20.0.230.01 | 336.30 |
| MEX5 nominal size 100, bottom connection, Glycerin, 0...6 bar, with diaphragm seal G 1/2 | | |
| Instrument glass | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

A solution for every application. Choose Bourdon® pressure gauges.



In addition to the standard products in this catalog we manufacture a wide range of contact pressure gauges, diaphragm pressure gauges, differential pressure gauges and test pressure gauges.

Please don't hesitate to contact us.

We should be pleased to draw up the best offer for you.

Valves for pressure gauges

- Please use the corresponding material number and / or
- Please use the ordering code

G 1/2 male / adjusting nut, DIN 16270 - AG

| Material | Brass | MS complet | Steel | Stainless steel |
|-----------------|--------------|--------------|--------------|-----------------|
| Ordering code ► | N 05008.0000 | N 05008.9004 | N 05008.0002 | N 05008.0003 |
| Price in Euro | 34.10 | 36.00 | 36.00 | 107.30 |
| | 10325849 | 10347582 | 10325851 | 10325852 |

G 1/2 male / adjusting nut with testing stud M20 x 1.5, DIN 16271 - AG

| Material | Brass | MS complet | Steel | Stainless steel |
|-----------------|--------------|--------------|--------------|-----------------|
| Ordering code ► | N 05009.0000 | N 05009.9001 | N 05009.0002 | N 05009.0003 |
| Price in Euro | 46.10 | 48.10 | 49.90 | 137.20 |
| | 10296195 | 10347590 | 10296196 | 10325733 |

G 1/2 male / adjusting nut with testing stud M20 x 1.5, DIN 16272 - AG

| Material | Brass | MS (DVGW) | Steel | Stainless steel |
|-----------------|--------------|--------------|--------------|-----------------|
| Ordering code ► | N 05010.0000 | N 05010.9078 | N 05010.0002 | N 05010.0003 |
| Price in Euro | 68.10 | 95.50 | 71.10 | 182.70 |
| | 10325758 | 10347593 | 10296197 | 10325768 |

G 1/2 male / adjusting nut, DIN 16270 - AG (free of oil and grease)

| Material | Brass | MS chrome-plated | Steel | Stainless steel |
|-----------------|--------------|------------------|-------|-----------------|
| Ordering code ► | N 05008.9000 | - | - | N 05008.9003 |
| Price in Euro | 139.60 | - | - | 195.60 |
| | 10325853 | - | - | 10325861 |

G 1/2 male / adjusting nut, DIN 16270 - AG (DVGW approval)

| Material | Brass | MS complet | Steel | Stainless steel |
|-----------------|--------------|------------|-------|-----------------|
| Ordering code ► | N 05008.9100 | - | - | N 05008.9101 |
| Price in Euro | 67.10 | - | - | 132.60 |
| | 10347584 | - | - | 10347585 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Example ordering code

N 05009.0000

46.10

G 1/2 male / adjusting nut with testing stud M20 x 1.5, DIN 16271 - AG

Material brass

Availability

stock item

upon manufacturing

- not available

Cocks for pressure gauges

- Please use the corresponding material number and / or
- Please use the ordering code

G 1/2 male / adjusting nut, DIN 16262 - AG



| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | N 05006.0000 | - | N 05006.0002 | N 05006.0003 |
| Price in Euro | 27.80 | | 68.50 | 88.20 |
| | 10296192 | - | 10325840 | 10296193 |

G 1/2 female / female , DIN 16261 - AG



| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|-------|-----------------|
| Ordering code ► | N 05003.0000 | - | - | - |
| Price in Euro | 22.30 | - | - | - |
| | 10296189 | - | - | - |

G 1/2 male / female, DIN 16261 - BG



| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|-------|-----------------|
| Ordering code ► | N 05004.0000 | - | - | - |
| Price in Euro | 21.60 | - | - | - |
| | 10296190 | - | - | - |

G 1/2 male / adjusting nut with testing stud M20 x 1.5, DIN 16283 - AG



| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|-------|-----------------|
| Ordering code ► | N 05007.0000 | - | - | N 05007.9003 |
| Price in Euro | 35.50 | - | - | 134.10 |
| | 10296194 | - | - | 10347581 |

G 1/2 female / female with push button actuation



| Material | Brass | MS nickel-plated | Steel | Stainless steel |
|-----------------|----------|------------------|-------|-----------------|
| Ordering code ► | - | D 11727.0000 | - | - |
| Price in Euro | - | 21.00 | - | - |
| | 10265944 | - | - | - |

G 1/2 female / union nut



| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|-------|-----------------|
| Ordering code ► | D 11724.0000 | - | - | - |
| Price in Euro | 29.10 | - | - | - |
| | 10324554 | - | - | - |

Material number ►

▲ ▲ ▲ ▲

Example ordering code

N 05007.0000

35.50

G 1/2 male / adjusting nut with testing stud M20 x 1.5, DIN 16283 - AG

Material brass

Availability

stock item

upon manufacturing

- not available

Siphons

- Please use the corresponding material number and / or
- Please use the ordering code

G 1/2 male / adjusting nut G 1/2, U-type siphons DIN 16282, form A

| Material | - | - | Steel | Stainless steel |
|-----------------|---|---|--------------|-----------------|
| Ordering code ► | - | - | N 05013.0000 | N 05013.0001 |
| Price in Euro | - | - | 32.90 | 128.80 |
| | | | 10296202 | 10296203 |

Welding end / adjusting nut G 1/2, U type siphons DIN 16282, Form B

| Material | - | - | Steel | Stainless steel |
|-----------------|---|---|--------------|-----------------|
| Ordering code ► | - | - | N 05013.0002 | N 05013.0003 |
| Price in Euro | - | - | 26.80 | 107.40 |
| | | | 10296204 | 10296205 |

G 1/2 male / adjusting nut G 1/2, coil type siphons DIN 16282, form C

| Material | - | - | Steel | Stainless steel |
|-----------------|---|---|--------------|-----------------|
| Ordering code ► | - | - | N 05014.0000 | N 05014.0001 |
| Price in Euro | - | - | 32.80 | 137.10 |
| | | | 10325854 | 10296206 |

Welding end / adjusting nut G 1/2, coil type siphons DIN 16282, Form D

| Material | - | - | Steel | Stainless steel |
|-----------------|---|---|--------------|-----------------|
| Ordering code ► | - | - | N 05014.0002 | N 05014.0003 |
| Price in Euro | - | - | 26.80 | 107.30 |
| | | | 10296207 | 10296208 |

G 1/2 male/male, U-type siphons, commercial

| Material | - | - | Steel | Stainless steel |
|-----------------|---|---|--------------|-----------------|
| Ordering code ► | - | - | J 66867.0001 | - |
| Price in Euro | - | - | 17.50 | - |
| | | | 10325437 | - |

G 1/2 male / adjusting nut G 1/2, U-type siphons, commercial

| Material | - | - | Steel | - |
|-----------------|---|---|--------------|---|
| Ordering code ► | - | - | J 66868.0001 | - |
| Price in Euro | - | - | 32.90 | - |
| | | | 10271366 | - |

Welding end / adjusting nut G 1/2, U type siphons, commercial

| Material | - | - | Steel | Stainless steel |
|-----------------|---|---|--------------|-----------------|
| Ordering code ► | - | - | J 89996.0206 | J 89996.0207 |
| Price in Euro | - | - | 26.90 | 107.40 |
| | | | 10347220 | 10347221 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Example ordering code

N 05013.0003

107.40

Welding end / adjusting nut G 1/2, U type siphons DIN 16282, stainless steel

Availability

stock item

upon manufacturing

- not available

Pipe connection pieces and seals

- Please use the corresponding material number and / or
- Please use the ordering code

Welding end / adjusting nut G 1/2, straight pipe



| | | | | |
|-----------------|---|---|--------------|-----------------|
| Material | - | - | Steel | Stainless steel |
| Ordering code ► | - | - | J 89996.0109 | J 89996.0120 |
| Price in Euro | | | 20.70 | 56.70 |
| | | | 10347217 | 10325460 |

Welding end / adjusting nut G 1/2, elbow pipe 90°



| | | | | |
|-----------------|---|---|--------------|-----------------|
| Material | - | - | Steel | Stainless steel |
| Ordering code ► | - | - | J 89996.0088 | J 89996.0089 |
| Price in Euro | - | - | 21.00 | 68.60 |
| | | | 10325457 | 10325458 |

Gasket for G 1/2 / M20 x 1.5, dimensions 17.5 x 6.2 x 2



| | | | | |
|-----------------|--------------|--------------|-----------------|--------------|
| Material | Copper | PTFE | Stainless steel | Novapress |
| Ordering code ► | N 01890.0102 | N 01890.0106 | N 01890.0108 | N 01890.0110 |
| Price in Euro | 0.40 | 0.40 | 0.60 | 0.40 |
| | 10329832 | 10310391 | 10329837 | 10329840 |

Gasket for G 1/4 A / M12 x 1.5, dimensions 9.5 x 5.2 x 1.5



| | | | | |
|-----------------|--------------|--------------|-----------------|--------------|
| Material | Copper | PTFE | Stainless steel | Novapress |
| Ordering code ► | N 01890.0002 | N 01890.0006 | N 01890.0008 | N 01890.0010 |
| Price in Euro | 0.80 | 2.60 | 2.60 | 0.50 |
| | 10325777 | 10329829 | 10310390 | 10329830 |

Material number ►

▲ ▲ ▲ ▲

| | | |
|--|--------------|------|
| Example ordering code | N 01890.0110 | 0.40 |
| Gasket for G 1/2 / M20 x 1.5, material Novapress | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

Snubbers and connection pieces

- Please use the corresponding material number and / or
- Please use the ordering code

Gauge snubbers G 1/2 female, damping adjustable from outside

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | D 07630.0001 | - | D 07630.0002 | D 07630.0003 |
| Price in Euro | 21.20 | | 21.90 | 58.40 |
| | 10265931 | - | 10265932 | 10265933 |

Connection stud for adjusting nut G 1/2, welding end G 1/2 left, DIN 16282

| Material | Brass | - | Steel | Stainless steel |
|-----------------|-------|---|--------------|-----------------|
| Ordering code ► | - | - | N 05015.0000 | N 05015.0001 |
| Price in Euro | - | - | 4.50 | 14.40 |
| | | - | 10325685 | 10325686 |

Adjusting nut G 1/2 left, right

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | N 05017.0003 | - | N 05017.0004 | N 05017.0005 |
| Price in Euro | 6.10 | - | 7.30 | 15.50 |
| | 10329883 | - | 10329914 | 10329915 |

Adaptor G 1/2 male to G 1/4 female

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | J 65908.0001 | - | J 65908.0002 | J 65908.0003 |
| Price in Euro | 14.70 | - | 14.30 | 23.60 |
| | 10310132 | - | 10354800 | 10310133 |

Adaptor G 1/4 male to G 1/2 female

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|-------|-----------------|
| Ordering code ► | J 65902.0241 | - | - | J 65902.0243 |
| Price in Euro | 15.70 | - | - | 39.70 |
| | 10329770 | - | - | 10329771 |

Connection piece stud G 1/2 to stud G 1/2

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | J 65887.0121 | - | J 65887.0122 | J 65887.0123 |
| Price in Euro | 18.50 | - | 43.90 | 53.70 |
| | 10329763 | - | 10325361 | 10325368 |

Connection piece female thread G 1/2 to female thread G 1/2

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | J 65922.0121 | - | J 65922.0122 | J 65922.0123 |
| Price in Euro | 32.50 | - | 53.00 | 62.20 |
| | 10325335 | - | 10325336 | 10325337 |

Fitting connection G 1/4 for pipe connection D = 6 mm

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | N 05018.0000 | - | N 05018.0001 | N 05018.0002 |
| Price in Euro | 9.20 | - | 10.50 | 26.90 |
| | 10296209 | - | 10325917 | 10296210 |

Fitting connection G 1/2 for pipe connection D = 12 mm

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | N 05018.0003 | - | N 05018.0004 | N 05018.0005 |
| Price in Euro | 9.20 | - | 10.50 | 26.90 |
| | 10325918 | - | 10296211 | 10296212 |

Fitting thread: stud G 1/2 to pigot nut G 1/2

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | A 06443.0010 | - | A 06443.0011 | A 06443.0012 |
| Price in Euro | 49.10 | - | 63.50 | 150.50 |
| | 10263832 | - | 10324136 | 10324137 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Threaded adaptors and supports

- Please use the corresponding material number and / or
- Please use the ordering code

Threaded connection

Compression fitting female thread G 1/2 for tube diameter 6 mm

| Material | Brass | - | Steel | Stainless steel |
|-----------------|-------|---|--------------|-----------------|
| Ordering code ► | - | - | A 07250.0008 | A 07250.0009 |
| Price in Euro | | | 47.80 | 114.20 |
| | | | 10329630 | 10346757 |

Compression fitting female thread G 1/2 for tube diameter 8 mm

| Material | Brass | - | Steel | Stainless steel |
|-----------------|-------|---|--------------|-----------------|
| Ordering code ► | - | - | A 07250.0010 | A 07250.0011 |
| Price in Euro | | | 47.80 | 114.20 |
| | | | 10346758 | 10346759 |

Compression fitting female thread G 1/2 for tube diameter 10 mm

| Material | Brass | - | Steel | Stainless steel |
|-----------------|-------|---|--------------|-----------------|
| Ordering code ► | - | - | A 07250.0012 | A 07250.0013 |
| Price in Euro | | | 47.80 | 114.20 |
| | | | 10346760 | 10329638 |

Compression fitting female thread G 1/2 for tube diameter 12 mm

| Material | Brass | - | Steel | Stainless steel |
|-----------------|-------|---|--------------|-----------------|
| Ordering code ► | - | - | A 07250.0014 | A 07250.0015 |
| Price in Euro | | | 47.80 | 114.20 |
| | | | 10329639 | 10329640 |

Support

Support, color black for wall mount of pressure measuring devices

| Extension | 60 mm | 100 mm (4") | 160 mm | - |
|-----------------|--------------|--------------|--------------|---|
| Ordering code ► | N 05011.0000 | N 05011.0002 | N 05011.0004 | - |
| Price in Euro | 16.60 | 26.50 | 23.20 | - |
| | 10296198 | 10296199 | 10329838 | - |

Intermediate piece for mounting support G 1/2 male/female

| Material | Brass | - | Steel | Stainless steel |
|-----------------|--------------|---|--------------|-----------------|
| Ordering code ► | N 05012.0000 | - | N 05012.0001 | N 05012.0002 |
| Price in Euro | 9.10 | - | 9.40 | 29.20 |
| | 10296201 | - | 10329841 | 10310395 |

Material number ►

▲ ▲ ▲ ▲

Bimetallic or gas thermometers – the right product for every application.

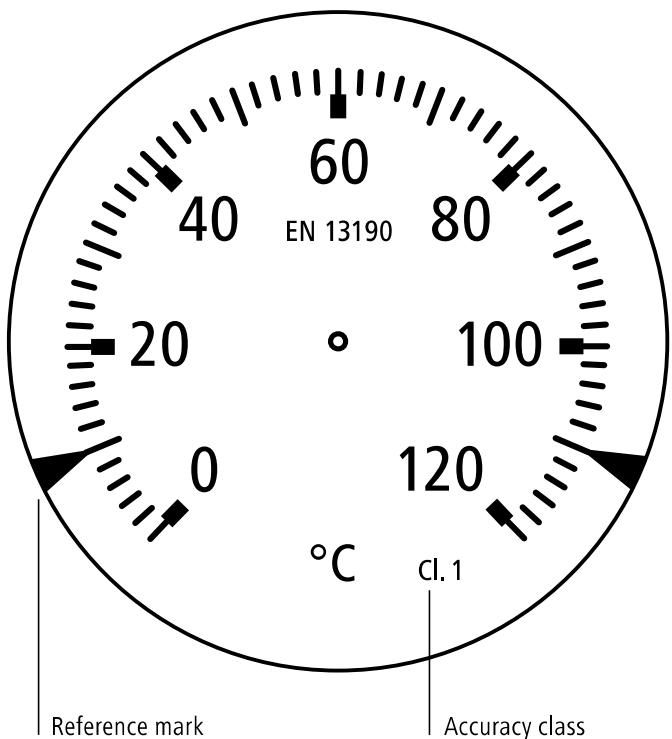


Can be used from -200 to $+800\text{ }^{\circ}\text{C}$, unfilled or with damping fluid, directly mounted or with remote line – our thermometers are reliable and easy to use.

Accuracy specifications for thermometers.

The accuracy of thermometers is determined by the specification of the class in accordance with EN 13190. The maximum permissible measurement error within the measuring range can be seen from the following table. The measuring range is the part of the display range that is located between the triangular boundary marks on the dial.

Example:
 Bimetalthermometer, Class 1,
 display range 0 ... +120 °C
 Measuring range: +10 ... +110 °C
 Margin of error: $\pm 2^{\circ}\text{C}$



Measuring accuracy of thermometers in accordance with EN 13190

| Display range in °C | | | Measuring range °C | | | Margins of error $\pm ^{\circ}\text{C}$ | |
|---------------------|----|------|--------------------|----|------|---|---------|
| | | | | | | Class 1 | Class 2 |
| -20 | to | +40 | -10 | to | +30 | 1 | 2 |
| -20 | to | +60 | -10 | to | +50 | 1 | 2 |
| -20 | to | +120 | -10 | to | +110 | 2 | 4 |
| -30 | to | +30 | -20 | to | +20 | 1 | 2 |
| -30 | to | +50 | -20 | to | +40 | 1 | 2 |
| -30 | to | +70 | -20 | to | +60 | 1 | 2 |
| -40 | to | +40 | -30 | to | +30 | 1 | 2 |
| -40 | to | +60 | -30 | to | +50 | 1 | 2 |
| -100 | to | +60 | -80 | to | +40 | 2 | 4 |
| 0 | to | 60 | 10 | to | 50 | 1 | 2 |
| 0 | to | 80 | 10 | to | 70 | 1 | 2 |
| 0 | to | 100 | 10 | to | 90 | 1 | 2 |
| 0 | to | 120 | 10 | to | 110 | 2 | 4 |
| 0 | to | 160 | 20 | to | 140 | 2 | 4 |
| 0 | to | 200 | 20 | to | 180 | 2 | 4 |
| 0 | to | 250 | 30 | to | 220 | 2.5 | 5 |
| 0 | to | 300 | 30 | to | 270 | 5 | 10 |
| 0 | to | 400 | 50 | to | 350 | 5 | 10 |
| 0 | to | 500 | 50 | to | 450 | 5 | 10 |
| 0 | to | 600 | 100 | to | 500 | 10 | 15 |
| 0 | to | 700 | 100 | to | 600 | 10 | 15 |
| 50 | to | 650 | 150 | to | 550 | 10 | 15 |
| 100 | to | 700 | 200 | to | 600 | 10 | 15 |

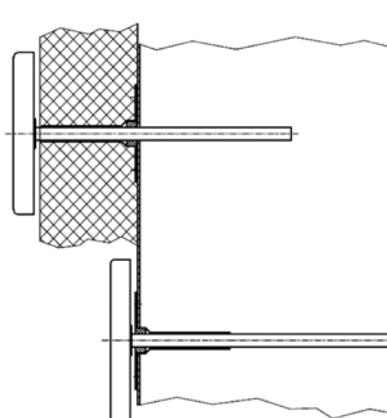
Installation example for thermometer with insulation.

Installation in airducts

Installation sleeves type ZTH for installation in airducts

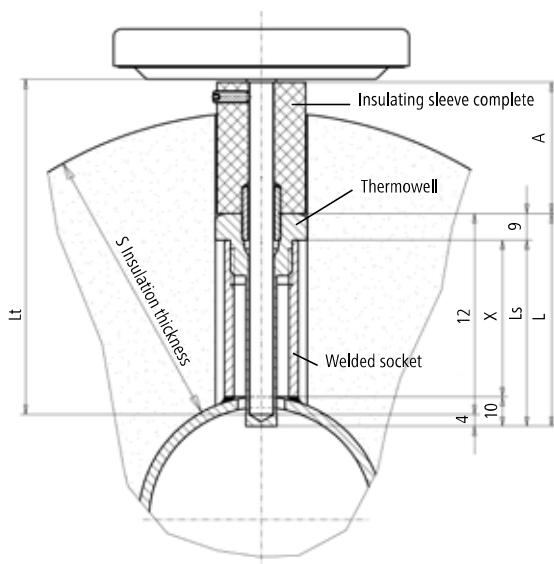
Recommendation:

Sensor tip approx. in the middle of the tube
but insertion depth min. 50 mm (10 mm
for type TBH)



Installation of thermometers in cooling applications

The insulating sleeve interrupts the cold bridge and thus prevents the formation of condensation in the insulation area. Two different versions are used, depending on the tube diameter:

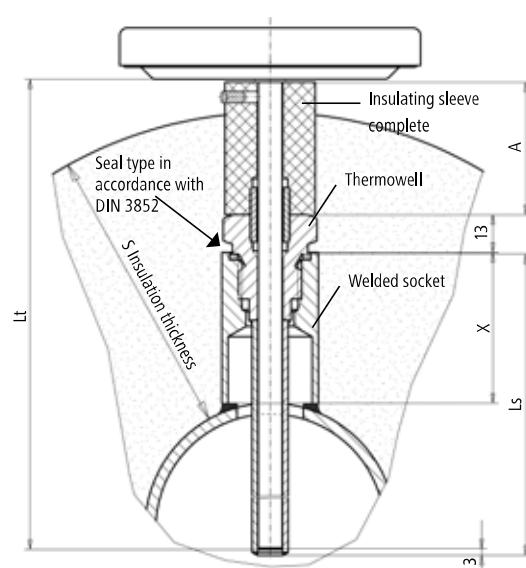


Version 1:

TBH for pipe diameter < 2" with screw-in thermowell

Ls = 48 mm or 68 mm

Insulating sleeve length A = 25 mm



Version 2:

TB for pipe diameter > 2" with screw-in thermowell

Ls = 60 mm, 100 mm or 160 mm

Insulating sleeve length A = 44 mm, 67 mm or 95 mm

Example of assembly of parts for TB with a length of 100 mm with screw-in thermowell:

| | | |
|----------------------|----|--------|
| 1. Thermowell | Ls | 60 mm |
| 2. Insulating sleeve | A | 44 mm |
| 3. Thermometer | Lt | 100 mm |

TBH 80

Bimetalthermometer for tube size < 2"

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|--------------------|-----------------------------------|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -20°C ... 250°C |

| | |
|-------------------------|---|
| Immersion tube diameter | Ø 8 mm |
| Connection | Plain stem without thread for direct mounting |

| Nominal size | Ø 80 mm | | | - | ***▼ |
|--------------------------|--------------------------------|---------------------------|---------------------------|----------|------|
| | Brass | Brass | Brass | | |
| Immersion tube, material | 48 mm | 68 mm | 88 mm | - | - |
| Immersion tube length | rear | rear | rear | - | - |
| Immersion tube outlet | | | | - | - |
| Ordering code ► | TBH080-212.151.*** | TBH080-212.152.*** | TBH080-212.153.*** | - | ***▼ |
| Temperature range | Price in Euro -10 ... 30 °C | 57.30 | 57.30 | - | 53T |
| | 0 ... 40 °C | 10321300 | 11196176 | - | 10T |
| | Price in Euro 50.60 | 50.60 | 50.60 | - | - |
| | -20 ... 40 °C | 10321251 | 10321301 | 10321225 | 52T |
| | -20 ... 60 °C | 11185773 | 10321184 | 11196178 | 54T |
| | Price in Euro 39.50 | 39.50 | 39.50 | - | - |
| | 0 ... 60 °C | 10260903 | 10321302 | 10321220 | 11T |
| | 0 ... 80 °C | 10321276 | 10321199 | 11079710 | 27T |
| | 0 ... 100 °C | 10321258 | 10321303 | 10321221 | 12T |
| | 0 ... 120 °C | 10260904 | 10321304 | 10321222 | 20T |
| | Price in Euro 50.60 | 50.60 | 50.60 | - | - |
| | 0 ... 250 °C | 10321259 | 10321183 | 10321229 | 14T |
| Material number ► | ▲ | ▲ | ▲ | ▲ | ▲ |

Thermowell for TBH thermometer

| | | | | |
|-----------------------|-------|-------|-------|---|
| Immersion tube length | 48 mm | 68 mm | 88 mm | - |
|-----------------------|-------|-------|-------|---|

Thermowell with threaded connection *



| | | | |
|---------------|-------------------|--------------|--------------|
| Price in Euro | G 1/2 male thread | | |
| Brass | T 09143.0000 | T 09143.0001 | T 09143.0002 |
| | 8.40 | 9.50 | 24.40 |

| | | | |
|-----------------|-------------------|--------------|--------------|
| Price in Euro | G 1/2 male thread | | |
| Stainless steel | T 09143.0005 | T 09143.0006 | T 09143.0007 |
| | 26.70 | 38.00 | 52.10 |

Thermowell with welded connection *



| | | | | |
|---------------|--------------|--------------|--------------|---|
| Price in Euro | T 09144.0000 | T 09144.0001 | T 09144.0002 | - |
| Steel | 20.50 | 22.50 | 24.50 | - |

| | | | | |
|-----------------|--------------|--------------|--------------|---|
| Price in Euro | T 09144.0005 | T 09144.0006 | T 09144.0007 | - |
| Stainless steel | 42.10 | 44.20 | 49.00 | - |

| | | | | |
|-----------------|--------------|--------------|--------------|---|
| Price in Euro | T 09144.0005 | T 09144.0006 | T 09144.0007 | - |
| Stainless steel | 10298557 | 10326462 | 10326500 | - |

Thermowell with welded connection complet with weld piece



| | | | | |
|---------------|--------------|--------------|--------------|---|
| Price in Euro | T 09310.0000 | T 09310.0001 | T 09310.0002 | - |
| Steel | 28.50 | 31.60 | 34.70 | - |

| | | | | |
|-----------------|--------------|--------------|--------------|---|
| Price in Euro | T 09310.0005 | T 09310.0006 | T 09310.0007 | - |
| Stainless steel | 79.80 | 84.00 | 99.40 | - |

| | | | | |
|-----------------|--------------|--------------|--------------|---|
| Price in Euro | T 09310.0005 | T 09310.0006 | T 09310.0007 | - |
| Stainless steel | 10326796 | 10326797 | 10326798 | - |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

* Welding sockets not included



| | | |
|---|--------------------|-------|
| Example ordering code | TBH080-212.153.12T | 39.50 |
| TBH080 Bimetalthermometer nominal size 80, immersion tube outlet center back, tube length 88 mm, material brass | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

TBH 100

Bimetalthermometer for tube size < 2"

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|---------------------------|-----------------------------------|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -20°C ... 250°C |

| | |
|--------------------------------|---|
| Immersion tube diameter | Ø 8 mm |
| Connection | Plain stem without thread for direct mounting |

| Nominal size | Ø 100 mm | | | - |
|---------------------------------|---------------------------|---------------------------|---------------------------|--------------|
| | Brass | 48 mm | 68 mm | |
| Immersion tube, material | | | | - |
| Immersion tube length | | | | - |
| Immersion tube outlet | | | | - |
| Ordering code ► | TBH100-212.151.*** | TBH100-212.152.*** | TBH100-212.153.*** | - |
| Temperature range | Price in Euro | 57.30 | 57.30 | *** ▼ |
| -10 ... 30 °C | - | 10321205 | 10321272 | - |
| 0 ... 40 °C | - | 10321228 | 10321274 | - |
| Price in Euro | 50.60 | 50.60 | 50.60 | 53T |
| -20 ... 40 °C | 10321253 | 10260910 | 10321265 | - |
| -20 ... 60 °C | 11170915 | 10260914 | 10321291 | - |
| Price in Euro | 39.50 | 39.50 | 39.50 | 54T |
| 0 ... 60 °C | 10260908 | 10260911 | 10321266 | - |
| 0 ... 80 °C | 10321286 | 10321215 | 10321273 | - |
| 0 ... 100 °C | 10321260 | 10260912 | 10321267 | - |
| 0 ... 120 °C | 10260909 | 10260913 | 10260915 | - |
| Price in Euro | 50.60 | 50.60 | 50.60 | 11T |
| 0 ... 250 °C | 10321261 | 10321186 | 10321271 | - |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Thermowell for TBH thermometer

| | | | | |
|------------------------------|--------------|--------------|--------------|---|
| Immersion tube length | 48 mm | 68 mm | 88 mm | - |
|------------------------------|--------------|--------------|--------------|---|

Thermowell with threaded connection *



| G 1/2 male thread | | |
|----------------------|---------------------|---------------------|
| Price in Euro | T 09143.0000 | T 09143.0001 |
| Brass | 8.40 | 9.50 |
| | 10298554 | 10298555 |
| Price in Euro | T 09143.0005 | T 09143.0006 |
| Stainless steel | 26.70 | 38.00 |
| | 10326421 | 10298556 |
| T 09143.0002 | T 09143.0007 | - |
| | 10326389 | 10326422 |

Thermowell with welded connection *



| T 09144.0000 | | |
|----------------------|---------------------|---------------------|
| Price in Euro | 20.50 | 22.50 |
| Steel | 10326459 | 10326460 |
| T 09144.0001 | T 09144.0002 | - |
| | 10326461 | - |
| Price in Euro | T 09144.0005 | T 09144.0006 |
| Stainless steel | 42.10 | 44.20 |
| | 10298557 | 10326462 |
| T 09144.0007 | T 09144.0009 | - |
| | 10326500 | - |

Thermowell with welded connection complet with weld piece



| T 09310.0000 | | |
|----------------------|---------------------|---------------------|
| Price in Euro | 28.50 | 31.60 |
| Steel | 10326753 | 10326754 |
| T 09310.0001 | T 09310.0002 | - |
| | 10326795 | - |
| Price in Euro | T 09310.0005 | T 09310.0006 |
| Stainless steel | 79.80 | 84.00 |
| | 10326796 | 10326797 |
| T 09310.0007 | T 09310.0009 | - |
| | 10326798 | - |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

* Welding sockets not included



| | | |
|---|---------------------------|-------|
| Example ordering code | TBH100-212.153.12T | 39.50 |
| TBH100 Bimetalthermometer nominal size 100, immersion tube outlet center back, tube length 88 mm, material brass Temperature range 0...100°C | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

TB 080

Bimetalthermometer, immersion tube brass



- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|--------------------|-----------------------------------|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -20°C ... 250°C |

| | |
|-------------------------|---|
| Immersion tube diameter | Ø 8 mm |
| Connection | Plain stem without thread for direct mounting |

Nominal size

Immersion tube, material

Immersion tube length

Immersion tube outlet

| Ordering code ► | Ø 80 mm | | | |
|-------------------|---------------|----------|----------|----------|
| | Brass | | | |
| Price in Euro | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| TB080-212.152.*** | 47.00 | 47.00 | 53.30 | 61.60 |
| Temperature range | -10 ... 30 °C | 10320557 | 11089996 | - |
| | -20 ... 40 °C | 10320505 | 10320563 | 10320516 |
| | -20 ... 60 °C | 10320558 | 10320593 | 11039874 |
| Price in Euro | 42.30 | 42.30 | 48.60 | 56.90 |
| 0 ... 40 °C | 10320521 | 10320603 | - | - |
| 0 ... 60 °C | 10320506 | 10320564 | 10320612 | 10320517 |
| 0 ... 80 °C | 10320522 | 10320572 | 11053378 | 10318879 |
| 0 ... 100 °C | 10320507 | 10320565 | 10320623 | 10320518 |
| 0 ... 120 °C | 10320508 | 10260845 | 10320624 | 10320525 |
| 0 ... 160 °C | 10320509 | 10320570 | 10320625 | 10320526 |
| Price in Euro | 47.00 | 47.00 | 53.30 | 61.60 |
| 0 ... 200 °C | 10320511 | 11008697 | 11196019 | 11176386 |
| 0 ... 250 °C | 10320510 | 10320571 | 10320626 | 10320527 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

*** ▾

53T

52T

54T

10T

11T

27T

12T

20T

13T

22T

14T

Thermowell for TB080 thermometer

| | | | | |
|-------------------------------------|--------------|--------------|--------|--------|
| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| Thermowell with fixing screw | | | | |
| Price in Euro | G 1/2 | | | |
| Brass | T 09143.0101 | T 09143.0102 | - | - |

Thermowell with threaded connection with sliding connection

| | | | | |
|---------------------------------|--------------|--------------|--------------|--------------|
| Price in Euro | T 08410.0101 | T 08410.0102 | T 08410.0103 | T 08410.0104 |
| Brass | 20.90 | 20.90 | 36.60 | 50.60 |
| | 10298534 | 10330164 | 10326329 | 10326330 |
| Price in Euro | T 08410.0201 | T 08410.0202 | T 08410.0203 | T 08410.0204 |
| Steel | 24.10 | 24.10 | 40.70 | - |
| | 10330166 | 10326376 | 10326377 | - |
| Price in Euro | T 08410.0301 | T 08410.0302 | T 08410.0303 | T 08410.0304 |
| Stainless steel 1.4404 / 1.4571 | 63.80 | 63.80 | 73.00 | 88.00 |
| | 10298535 | 10298536 | 10326450 | 10298537 |

Thermowell with welded connection with sliding connection

| | | | | |
|---------------|--------------|--------------|--------------|--------------|
| Price in Euro | T 08416.0101 | T 08416.0102 | T 08416.0103 | T 08416.0104 |
| Steel | 22.70 | 27.80 | 40.60 | 114.10 |
| | 10330190 | 10326602 | 10330191 | 10326604 |
| Price in Euro | T 08416.0201 | T 08416.0202 | T 08416.0203 | T 08416.0204 |

Stainless steel 1.4404 / 1.4571 63.70 72.90 87.70 135.60

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Thermowells and accessories see page 65

| | | |
|--|-------------------|--------------------|
| Example ordering code | TB080-212.156.20T | 48.60 |
| TB Bimetalthermometer nominal size 80, immersion tube outlet center back, tube length 250 mm, material brass | | |
| Immersion tube diameter 8 mm, temperatur range 0...120°C | | |
| Availability | stock item | upon manufacturing |

- not available

TB 100

Bimetalthermometer, immersion tube brass



- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|--------------------|-----------------------------------|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -20°C ... 250°C |

| | |
|-------------------------|---|
| Immersion tube diameter | Ø 8 mm |
| Connection | Plain stem without thread for direct mounting |

| Nominal size | Ø 100 mm | | | |
|--------------------------|---|---|---|---|
| | Brass | | | |
| Immersion tube, material | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| Immersion tube length | rear | rear | rear | rear |
| Immersion tube outlet | | | | |
| Ordering code ► | TB100-212.152.*** | TB100-212.154.*** | TB100-212.156.*** | TB100-212.157.*** |
| Temperature range | Price in Euro -10 ... 30 °C 47.00 | Price in Euro -20 ... 40 °C 47.00 | Price in Euro -20 ... 60 °C 53.30 | Price in Euro -30 ... 70 °C 61.60 |
| | 10320933 | 10320935 | - | - |
| | 10320718 | 10320810 | 10320708 | 10320785 |
| | 10320907 | 10320800 | 10260866 | 10320783 |
| | 10320716 | 10320808 | 10320697 | 11089638 |
| | 10320717 | 10320809 | 10345731 | 10320784 |
| | 42.30 | 42.30 | 48.60 | 56.90 |
| | 10320847 | 10320848 | - | - |
| | 10320739 | 10320811 | 10260852 | 10260856 |
| | 10320949 | 10320936 | 10320824 | 10320792 |
| | 10320740 | 10320812 | 10260853 | 10320788 |
| | 10320741 | 10260851 | 10320709 | 10320789 |
| | 10320742 | 10320655 | 10320719 | 10320790 |
| | 47.00 | 47.00 | 53.30 | 61.60 |
| | 10320891 | 10320839 | 10320857 | 10320690 |
| | 10320743 | 10320656 | 10320720 | 10320791 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Thermowell for TB100 thermometer

| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
|------------------------------|---------------------|---------------------|--------|--------|
| Thermowell with fixing screw | G 1/2 male thread | | | |
| Ordering code ► | T 09143.0101 | T 09143.0102 | - | - |
| Price in Euro | 12.70 | 12.70 | - | - |
| Brass | 10347699 | 10347700 | - | - |

Thermowell with threaded connection with sliding connection

| | G 1/2 male thread | | | |
|---------------------------------|-------------------|--------------|--------------|--------------|
| Price in Euro | T 08410.0101 | T 08410.0102 | T 08410.0103 | T 08410.0104 |
| Brass | 20.90 | 20.90 | 36.60 | 50.60 |
| | 10298534 | 10330164 | 10326329 | 10326330 |
| Price in Euro | T 08410.0201 | T 08410.0202 | T 08410.0203 | - |
| Steel | 24.10 | 24.10 | 40.70 | - |
| | 10330166 | 10326376 | 10326377 | - |
| Price in Euro | T 08410.0301 | T 08410.0302 | T 08410.0303 | T 08410.0304 |
| Stainless steel 1.4404 / 1.4571 | 63.80 | 63.80 | 73.00 | 88.00 |
| | 10298535 | 10298536 | 10326450 | 10298537 |

Thermowell with welded connection with sliding connection

| | T 08416.0101 | T 08416.0102 | T 08416.0103 | T 08416.0104 |
|---------------------------------|--------------|--------------|--------------|--------------|
| Price in Euro | 22.70 | 27.80 | 40.60 | 114.10 |
| Steel | 10330190 | 10326602 | 10330191 | 10326604 |
| Price in Euro | T 08416.0201 | T 08416.0202 | T 08416.0203 | T 08416.0204 |
| | 63.70 | 72.90 | 87.70 | 135.60 |
| Stainless steel 1.4404 / 1.4571 | 10326637 | 10298538 | 10326638 | 10326639 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Thermowells and accessories see page 65

| | | |
|--|--------------------------|--------------------|
| Example ordering code | TB100-212.156.20T | 48.60 |
| TB100 Bimetalthermometer nominal size 100, immersion tube outlet center back, tube length 250 mm, material brass | | |
| Immersion tube diameter 8 mm, temperatur range 0...120°C | | |
| Availability | stock item | upon manufacturing |
| | | - not available |

TBH 080 / TBH 100

Bimetalthermometer for cooling applications for tube size < 2"

- Please use the corresponding material number and / or
- Please use the ordering code



| | |
|--------------------------|---|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP33 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -20°C ... 40°C |
| Immersion tube diameter | Ø 8 mm |
| Immersion tube, material | Brass |
| Connection | Plain stem without thread for direct mounting |

| Nominal size | Ø 80 mm | | - | |
|--------------------------|--------------------|--------------------|----------|-----|
| Immersion tube, material | Brass | | - | |
| Immersion tube length | 80 mm | 100 mm (4") | - | |
| Immersion tube outlet | rear | rear | - | |
| Ordering code ► | TBH080-212.150.*** | TBH080-212.150.*** | - | - |
| Price in Euro | 71.60 | 71.60 | - | - |
| Temperature range | -20 ... 40 °C | 11076756 | 10321280 | 52T |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

| Nominal size | Ø 100 mm | | - | |
|--------------------------|--------------------|--------------------|----------|-----|
| Immersion tube, material | Brass | | - | |
| Immersion tube length | 80 mm | 100 mm (4") | - | |
| Immersion tube outlet | rear | rear | - | |
| Ordering code ► | TBH100-212.150.*** | TBH100-212.150.*** | - | - |
| Price in Euro | 71.60 | 71.60 | - | - |
| Temperature range | -20 ... 40 °C | 11047415 | 10321285 | 52T |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Thermowell for TBH thermometer

| Immersion tube length | 80 mm | 100 mm (4") | - | |
|-----------------------|-------|-------------|---|---|
| Price in Euro | 80 mm | 100 mm (4") | - | - |

| Thermowell with threaded connection * | G 1/2 male thread | | - | |
|---------------------------------------|-------------------|--------------|---|---|
| Price in Euro | T 09143.5003 | T 09143.5001 | - | - |
| Brass | 10.60 | 12.90 | - | - |
| | 10328857 | 10326423 | - | - |
| Price in Euro | T 09143.5004 | T 09143.5002 | - | - |
| Stainless steel | 49.90 | 56.00 | - | - |
| | 11053278 | 10326424 | - | - |

Thermowell with welded connection *

| Thermowell with welded connection * | T 09178.0001 | T 09178.0005 | - | |
|-------------------------------------|-------------------|--------------|---|---|
| Price in Euro | 15.00 | 61.00 | - | - |
| Steel | 10326610 | 10326612 | - | - |
| Thermowell with welded connection * | G 1/2 male thread | | - | |
| Price in Euro | T 09178.0000 | T 09178.0006 | - | - |
| Stainless steel | 20.50 | 33.50 | - | - |
| | 10326609 | 10326613 | - | - |

Insulating sleeve, material PVC, Length

| | | | |
|---------------|----------|---|---|
| 25 mm | - | | |
| T 09362.0003 | - | - | - |
| Price in Euro | 23.30 | - | - |
| | 10326708 | - | - |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Example ordering code

TBH080-212.150.52T

71.60

Bimetalthermometer nominal size 80, connection center back, tube length 100 mm, material brass
Temperature range -20...40°C

Availability

stock item

upon manufacturing

- not available

TBHA 080 / TBHA 100

Clamp-on thermometer for insulated pipes < 2"

- Please use the corresponding material number and / or
- Please use the ordering code



| | |
|-------------------------|--|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -20°C ... 160°C |
| Sensor diameter | Ø 8 mm |
| Immersion tube material | Stainless steel 1.4571 (316ti) |
| Mounting socket | Zinc cast, included in scope of delivery |

| Nominal size | Ø 80 mm | | | |
|-------------------------|--------------------------------|---------------------|---------------------|---------------------|
| | Stainless steel 1.4571 (316ti) | | | |
| Immersion tube material | 55 mm | 75 mm | 95 mm | 115 mm |
| | rear | rear | rear | rear |
| Immersion tube outlet | | | | |
| Ordering code ► | TBHA080-212.161.*** | TBHA080-212.162.*** | TBHA080-212.163.*** | TBHA080-212.164.*** |
| Temperature range | Price in Euro -20 40 °C | 71.90 10321443 | 71.90 10260921 | 79.80 11124709 |
| | Price in Euro 0 ... 60 °C | 64.00 10260917 | 64.00 10260919 | 71.90 10321323 |
| | 0 ... 80 °C | 10321424 | 10321311 | 10321324 |
| | 0 ... 100 °C | 10260918 | 10321313 | 10321331 |
| | 0 ... 120 °C | 10321425 | 10260920 | 10321325 |
| | 0 ... 160 °C | 10321442 | 10321320 | 11196224 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

| Nominal size | Ø 100 mm | | | |
|-------------------------|--------------------------------|---------------------|---------------------|---------------------|
| | Stainless steel 1.4571 (316ti) | | | |
| Immersion tube material | 55 mm | 75 mm | 95 mm | 115 mm |
| | rear | rear | rear | rear |
| Immersion tube outlet | | | | |
| Ordering code ► | TBHA100-212.161.*** | TBHA100-212.162.*** | TBHA100-212.163.*** | TBHA100-212.164.*** |
| Temperature range | Price in Euro -20 40 °C | 71.90 10321344 | 71.90 10321387 | 79.80 10321431 |
| | Price in Euro 0 ... 60 °C | 64.00 10260922 | 64.00 10321374 | 71.90 10321423 |
| | 0 ... 80 °C | 10321336 | 10321375 | 10321427 |
| | 0 ... 100 °C | 10321342 | 10321385 | 10321429 |
| | 0 ... 120 °C | 10321337 | 10260923 | 10321428 |
| | 0 ... 160 °C | 10321343 | 10321386 | 10321430 |
| Material number ► | ▲ | ▲ | ▲ | ▲ |

Accessories

| | | | | |
|--|----------------------------------|----------------------------------|---|---|
| Hose clamp for clamp fastening to tube-Ø | 27 - 42 mm, 3/4" - 1 1/4" | 42 - 60 mm, 1 1/4" - 2" | | |
| | A 08476.0000 3.70 10263864 | A 08476.0001 4.10 10263865 | - | - |

Spare parts

| | | | | |
|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Mounting socket for isolation thickness | 30 - 50 mm | 50 - 70 mm | 70 - 90 mm | 90 - 110 mm |
| | T 09302.0000 12.60 10298558 | T 09302.0001 14.50 10298559 | T 09302.0002 21.10 10326701 | T 09302.0003 26.20 10326702 |

Material number ►

▲ ▲ ▲ ▲

| | | |
|---|---------------------|-------|
| Example ordering code | TBHA080-212.162.12T | 64.00 |
| TBHA Bimetalthermometer nominal size 80, sensor outlet center back incl. mounting socket, sensor length 75 mm | | |
| Temperature range 0...100°C, socket for isolation thickness from 30 - 50 mm | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

TBL 100

Bimetalthermometer for airducts



- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|---------------------------|-----------------------------------|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -30°C ... 100°C |

| | |
|---------------------------------|--------|
| Immersion tube diameter | Ø 8 mm |
| Immersion tube, material | Brass |

| Nominal size | Ø 100 mm | | | | *** ▾ |
|---------------------------------|------------------------|----------|------|--------|-------|
| | Brass | 165 mm | rear | center | |
| Immersion tube, material | | | | | |
| Immersion tube length | | | | | |
| Immersion tube outlet | | | | | |
| Ordering code ► | TBL100-232.151.*** | - | - | - | *** ▾ |
| | 40.70 | | | | |
| Temperature range | -30 50 °C | 10328450 | - | - | 70T |
| | -20 ...60 °C | 10321130 | - | - | 54T |
| | 0 ...80 °C | 10260887 | - | - | 27T |
| | 0 ...100 °C | 10318405 | - | - | 12T |
| Material number ► | | ▲ | ▲ | ▲ | ▲ |

| | | | |
|--|--------------------|-------|---|
| Example ordering code | TBL100-232.151.27T | 40.70 | ◀ |
| TBL100 Bimetalthermometer nominal size 100, immersion tube outlet center back, tube length 165 mm, material brass Immersion tube diameter 8 mm, temperatur range 0...80°C | | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

TB 080

Bimetalthermometer, stainless steel immersion tube

- Please use the corresponding material number and / or
- Please use the ordering code

| | | |
|---------------------------|-----------------------------------|------------------------|
| Accuracy | Class 1 (EN 13190) | (above 250°C: Class 2) |
| Protection rating | IP50 (EN 60529) | |
| Housing | Stainless steel 1.4301 (AISI 304) | |
| Window | Instrument glass | |
| Measurement ranges | -30°C ... 500°C | |

| | |
|--------------------------------|---|
| Immersion tube diameter | Ø 8 mm |
| Connection | Plain stem without thread for direct mounting |

Nominal size

Immersion tube, material

Immersion tube length

Immersion tube outlet

Ø 80 mm

Stainless steel 1.4571 (316ti)

| 100 mm (4") | 160 mm | 250 mm | 400 mm |
|-------------|--------|--------|--------|
| rear | rear | rear | rear |

Ordering code ►

| Price in Euro | TB080-212.162.*** | TB080-212.164.*** | TB080-212.166.*** | TB080-212.167.*** | ***▼ |
|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Temperature range | | | | | |
| -10 ... 30 °C | 69.50 | 79.40 | 81.00 | 97.20 | 53T |
| -20 ... 40 °C | 11089997 | 11196044 | - | - | 52T |
| -20 ... 60 °C | 10320523 | 11161215 | 11196062 | 11196075 | 54T |
| -30 ... 30 °C | 11099262 | 11166645 | 11111374 | 11196077 | 61T |
| -30 ... 70 °C | 11115105 | 11196045 | 11196063 | 11196078 | 51T |
| | 11196042 | 10320577 | 11196060 | 11196074 | |
| Price in Euro | 64.80 | 74.70 | 76.30 | 92.50 | |
| 0 ... 40 °C | 10320542 | 10320823 | - | - | 10T |
| 0 ... 60 °C | 10320524 | 11010523 | 10320631 | 11196065 | 11T |
| 0 ... 80 °C | 10320550 | 11196043 | 11006261 | 11196072 | 27T |
| 0 ... 100 °C | 10320531 | 11012242 | 11196046 | 10320528 | 12T |
| 0 ... 120 °C | 10320532 | 10320578 | 10320632 | 11196069 | 20T |
| 0 ... 160 °C | 11196041 | 10320579 | 11091641 | 11196066 | 13T |
| Price in Euro | 69.50 | 79.40 | 81.00 | 97.20 | |
| 0 ... 200 °C | 10320591 | 10320592 | 11196048 | 11196071 | 22T |
| 0 ... 250 °C | 10320533 | 10320580 | 11129227 | 11196068 | 14T |
| 0 ... 400 °C | 10320534 | 10320585 | 10260846 | 10260847 | 15T |
| 100 ... 500 °C | 10320535 | 10320586 | 10320502 | 10320536 | 30T |
| Material number ► | ▲ | ▲ | ▲ | ▲ | |

Thermowell for TB080 thermometer

| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
|--|--------------|--------------|--------------|--------------|
| Thermowell with threaded connection with sliding connection | | | | |
| Price in Euro | T 08410.0301 | T 08410.0302 | T 08410.0303 | T 08410.0304 |
| Stainless steel 1.4404 / 1.4571 | 63.80 | 63.80 | 73.00 | 88.00 |
| | 10298535 | 10298536 | 10326450 | 10298537 |

Thermowell with welded connection with sliding connection

| Price in Euro | T 08416.0201 | T 08416.0202 | T 08416.0203 | T 08416.0204 |
|---------------------------------|--------------|--------------|--------------|--------------|
| Stainless steel 1.4404 / 1.4571 | 63.70 | 72.90 | 87.70 | 135.60 |
| | 10326637 | 10298538 | 10326638 | 10326639 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Thermowells and accessories see page 65

| Example ordering code | TB080-212.166.20T | 76.30 | ◀ |
|---|-------------------|--------------------|-----------------|
| TB Bimetalthermometer nominal size 80, immersion tube outlet center back, tube length 250 mm, stainless steel | | | |
| Immersion tube diameter 8 mm, temperatur range 0...120°C | | | |
| Availability | stock item | upon manufacturing | - not available |

TB 100

Bimetalthermometer, stainless steel immersion tube

- Please use the corresponding material number and / or
- Please use the ordering code

| | |
|--------------------|---|
| Accuracy | Class 1 (EN 13190) (above 250°C: Class 2) |
| Protection rating | IP50 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -30°C ... 500°C |

| | |
|-------------------------|---|
| Immersion tube diameter | Ø 8 mm |
| Connection | Plain stem without thread for direct mounting |

Nominal size

Immersion tube, material

Immersion tube length

Immersion tube outlet

Ø 100 mm

Stainless steel 1.4571 (316ti)

| 100 mm (4") | 160 mm | 250 mm | 400 mm |
|-------------|--------|--------|--------|
| rear | rear | rear | rear |

Ordering code ►

| Price in Euro | TB100-212.162.*** | TB100-212.164.*** | TB100-212.166.*** | TB100-212.167.*** | ***▼ |
|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| -10 ... 30 °C | 69.50 | 79.40 | 81.00 | 97.20 | |
| -20 ... 40 °C | 10320761 | 10320763 | - | - | 53T |
| -20 ... 60 °C | 10320728 | 10320644 | 10320721 | 10320802 | 52T |
| -30 ... 30 °C | 10320762 | 10320822 | 10320639 | 11007985 | 54T |
| -30 ... 70 °C | 10320726 | 10320657 | 11093443 | 11127604 | 61T |
| | 10320727 | 10320658 | 10260854 | 10320801 | 51T |
| Price in Euro | 64.80 | 74.70 | 76.30 | 92.50 | |
| 0 ... 40 °C | 10320950 | 10320929 | - | - | 10T |
| 0 ... 60 °C | 10260848 | 10320645 | 10260855 | 10320803 | 11T |
| 0 ... 80 °C | 10320851 | 10320686 | 10320747 | 10320818 | 27T |
| 0 ... 100 °C | 10260849 | 10320646 | 10320729 | 10320804 | 12T |
| 0 ... 120 °C | 10260850 | 10320647 | 10320730 | 10320813 | 20T |
| 0 ... 160 °C | 10320757 | 10320648 | 10320731 | 10320814 | 13T |
| Price in Euro | 69.50 | 79.40 | 81.00 | 97.20 | |
| 0 ... 200 °C | 10320999 | 10320770 | 10320771 | 10320710 | 22T |
| 0 ... 250 °C | 10320758 | 10320662 | 10320732 | 10320815 | 14T |
| 0 ... 400 °C | 10320759 | 10320663 | 10320745 | 10320816 | 15T |
| 100 ... 500 °C | 10320760 | 10320664 | 10320746 | 10320817 | 30T |
| Material number ► | ▲ | ▲ | ▲ | ▲ | |

Thermowell for TB100 thermometer

| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
|-----------------------|-------------|--------|--------|--------|
| | | | | |

Thermowell with threaded connection with sliding connection

| Price in Euro | T 08410.0301 | T 08410.0302 | T 08410.0303 | T 08410.0304 |
|---------------------------------|--------------|--------------|--------------|--------------|
| | 63.80 | 63.80 | 73.00 | 88.00 |
| Stainless steel 1.4404 / 1.4571 | 10298535 | 10298536 | 10326450 | 10298537 |

Thermowell with welded connection with sliding connection

| Price in Euro | T 08416.0201 | T 08416.0202 | T 08416.0203 | T 08416.0204 |
|---------------------------------|--------------|--------------|--------------|--------------|
| | 63.70 | 72.90 | 87.70 | 135.60 |
| Stainless steel 1.4404 / 1.4571 | 10326637 | 10298538 | 10326638 | 10326639 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
| | | | |

Thermowells and accessories see page 65

| Example ordering code | TB100-212.164.10T | 74.70 | ◀ |
|---|---|--------------------|-----------------|
| TB100 Bimetalthermometer nominal size 100, immersion tube outlet center back, tube length 160 mm, stainless steel | | | |
| | Immersion tube diameter 8 mm, temperatur range 0...40°C | | |
| Availability | stock item | upon manufacturing | - not available |

TBI

Bimetalthermometer, stainless steel, immersion tube center back



- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|--------------------------------|--|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP67 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -70°C ... 600°C |
| Immersion tube diameter | Ø 8 mm (Ø 6 mm s. Options) |
| Immersion tube outlet | Rear, axial |
| Connection | Plain stem without thread for direct mounting (Option: sliding connection) |

| Nominal size Immersion tube, material Connection | Ø 100 mm Stainless steel 1.4571 (316ti) | | | | |
|--|--|--------------------|--------------------|--------------------|----------|
| | rear | rear | rear | rear | |
| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm | |
| Ordering code ► | TBI100-212.162.*** | TBI100-212.164.*** | TBI100-212.166.*** | TBI100-212.167.*** | |
| Price in Euro | 115.60 | 120.30 | 128.30 | 139.70 | |
| Temperature range | -10 ... 30 °C | 11126074 | 10327178 | - | 53T |
| | -20 ... 40 °C | 10327451 | 11161734 | 10327206 | 10326968 |
| | -20 ... 60 °C | 10327450 | 10327297 | 10327142 | 10318101 |
| | -20 ... 100 °C | 10327065 | 10327410 | 11195778 | 11165443 |
| | -30 ... 30 °C | - | - | - | 61T |
| | -30 ... 70 °C | 10327409 | 10327028 | 11195776 | 10326993 |
| | -30 ... 170 °C | 10327208 | 10326996 | 11175083 | 11154767 |
| | -70 ... 50 °C | 10327094 | 10326974 | 11161045 | 10327040 |
| Price in Euro | 115.60 | 120.30 | 128.30 | 139.70 | |
| | 0 ... 40 °C | 10327356 | 10327030 | - | 10T |
| | 0 ... 60 °C | 10327177 | 11161797 | 11186747 | 10327035 |
| | 0 ... 80 °C | 11134786 | 11161751 | 11195775 | 10327457 |
| | 0 ... 100 °C | 11161737 | 11161735 | 10326970 | 10327209 |
| | 0 ... 120 °C | 11161738 | 11161745 | 11161739 | 10327298 |
| | 0 ... 160 °C | 11121729 | 10326967 | 10327251 | 10327253 |
| Price in Euro | 115.60 | 120.30 | 128.30 | 139.70 | |
| | 0 ... 200 °C | 10327262 | 10326991 | 10327212 | 11195882 |
| | 0 ... 250 °C | 11161743 | 11161732 | 10327295 | 11195779 |
| | 0 ... 400 °C | 10327031 | 10326924 | 10326990 | 11195880 |
| | 0 ... 500 °C | 11195771 | 10327087 | 11167652 | 11195883 |
| | 0 ... 600 °C | 11196110 | 10327029 | 11195774 | 11195881 |
| Material number ► | | ▲ | ▲ | ▲ | ▲ |

| | | | |
|--|-------|--------------------|--|
| Additional price for other nominal sizes (NS) | | | |
| Ø 80 mm | 0.00 | TBI080-***.***.*** | |
| Ø 130 mm (not for -10...30°C and 0...40°C) | 25.30 | TBI130-***.***.*** | |
| Ø 160 mm (not for -10...30°C and 0...40°C) | 73.20 | TBI160-***.***.*** | |

| | | | |
|---|-------|-------------------|--|
| Additional price for integrated process connection | | | |
| G 1/2 male thread, sliding | 17.80 | TBI***-*5.***.*** | |
| 1/2 NPT male thread, sliding | 17.80 | TBI***-*6.***.*** | |
| M20 x 1.5 male thread, sliding | 59.00 | TBI***-*2.***.*** | |
| Others on request | | | |

| | | | |
|---|-------|-------------------|--|
| Mehrpreise für andere Tauchrohrdurchmesser | | | |
| Ø 6 mm | -8.30 | TBI***-***.4*.*** | |

| | | | |
|---|-------|-------|--|
| Options (additional costs) | | | |
| ATEX II 2 GDc (only with option laminated safety glass) | 2.40 | 0078_ | |
| Case and bezel ring stainless steel 1.4404 (AISI 316L) (only Ø 100 mm and Ø 130 mm) | 35.60 | 0110_ | |
| Pointer axis with dampening grease | 12.60 | 0581_ | |
| Laminated safety glass (only Ø 80 mm and Ø 100 mm, others on request) | 8.70 | 0751_ | |
| Polycarbonat (only for Ø 80 mm and Ø 100 mm, others upon request) | 11.10 | 0753_ | |
| Silicone-free with mark on dial | 21.30 | 0794_ | |
| Red mark at ... | 19.40 | 9700_ | |
| Customer logo | 21.30 | 9710_ | |
| Technical inscription | 21.30 | 9711_ | |

| | | | |
|---|-------|------|--|
| Certificates (Net-Prices) | | | |
| 2.1 certificate | 23.50 | Q001 | |
| 2.2 certificate | 32.60 | Q002 | |
| 3.1 material certificate | 49.00 | Q003 | |
| 3.1 calibration certificate - 3 points increasing | 42.00 | Q006 | |
| 3.1 calibration certificate - 5 points increasing | 65.20 | Q007 | |

Thermowells and accessories see page 65

| | | | |
|---|-------------------------------------|--------|---|
| Example ordering code | TBI100-212.162.20T/0751_Q006 | 166.30 | ◀ |
| TBI Bimetalthermometer nominal size 100, immersion tube outlet center back, Ø 8 mm, L=100 mm, 0 - 120°C Laminated safety glass, 3.1 calibration certificate 3 points | | | |

| | | | |
|---------------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|---------------------|------------|--------------------|-----------------|

TBI

Bimetalthermometer, stainless steel, immersion tube radial bottom

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...



| | |
|-------------------------|--|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP67 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -70°C ... 600°C |
| Immersion tube diameter | Ø 8 mm (Ø 6 mm s. Options) |
| Immersion tube outlet | Bottom, radial |
| Connection | Plain stem without thread for direct mounting (Option: sliding connection) |

| Nominal size | Ø 100 mm | | | |
|--------------------------|--------------------------------|--------------------|--------------------|--------------------|
| | Stainless steel 1.4571 (316ti) | | | |
| Immersion tube, material | bottom | bottom | bottom | bottom |
| Connection | | | | |
| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| Ordering code ► | TBI100-211.162.*** | TBI100-211.164.*** | TBI100-211.166.*** | TBI100-211.167.*** |
| Price in Euro | 170.60 | 175.30 | 183.30 | 194.70 |
| Temperature range | -20 ... 40 °C | 11169029 | 10327421 | 10327155 |
| | -20 ... 60 °C | 11195981 | 11196032 | 11196055 |
| | -20 ... 100 °C | 10327154 | 11196036 | 11196059 |
| | -30 ... 30 °C | - | - | - |
| | -30 ... 70 °C | 10327315 | 10327221 | 11196054 |
| | -30 ... 170 °C | 11195983 | 11196033 | 11196056 |
| | -70 ... 50 °C | 11195986 | 11178440 | 11196058 |
| Price in Euro | 170.60 | 175.30 | 183.30 | 194.70 |
| | 0 ... 60 °C | 11161765 | 10326891 | 10327095 |
| | 0 ... 80 °C | 10326892 | 10327153 | 11196053 |
| | 0 ... 100 °C | 11195958 | 10327418 | 11196037 |
| | 0 ... 120 °C | 11161769 | 10327419 | 11188745 |
| | 0 ... 160 °C | 10327316 | 10327269 | 10327129 |
| Price in Euro | 170.60 | 175.30 | 183.30 | 194.70 |
| | 0 ... 200 °C | 11161790 | 10327271 | 10327194 |
| | 0 ... 250 °C | 10327273 | 10327420 | 10326893 |
| | 0 ... 400 °C | 11195963 | 10326935 | 10327011 |
| | 0 ... 500 °C | 11195969 | 11196031 | 11196051 |
| | 0 ... 600 °C | 11195966 | 11196000 | 11196039 |
| Material number ► | | ▲ | ▲ | ▲ |
| | | | | ▲ |

| Additional price for other nominal sizes (NS) | | | |
|---|--|-------|--------------------|
| Ø 80 mm | | 0.00 | TBI080-***.***.*** |
| Ø 130 mm | | 25.30 | TBI130-***.***.*** |
| Ø 160 mm | | 73.20 | TBI160-***.***.*** |

| Additional price for integrated process connection | | | |
|--|--|-------|--------------------|
| G 1/2 male thread, sliding | | 17.80 | TBI***-*5*.***.*** |
| 1/2 NPT male thread, sliding | | 17.80 | TBI***-*6*.***.*** |
| M20 x 1.5 male thread, sliding | | 59.00 | TBI***-*2*.***.*** |
| Others on request | | | |

| Mehrpreise für andere Tauchrohrdurchmesser | | | |
|--|--|-------|--------------------|
| Ø 6 mm | | -8.30 | TBI***.***.*4*.*** |

| Options (additional costs) | | | / |
|---|--|-------|------|
| ATEX II 2 GDc (only with option laminated safety glass) | | 2.40 | 0078 |
| Case and bezel ring stainless steel 1.4404 (AISI 316L) (only Ø 100 mm and Ø 130 mm) | | 35.60 | 0110 |
| Pointer axis with dampening grease | | 12.60 | 0581 |
| Laminated safety glass (only Ø 80 mm and Ø 100 mm, others on request) | | 8.70 | 0751 |
| Silicone-free with mark on dial | | 21.30 | 0794 |
| Red mark at ... | | 19.40 | 9700 |
| Customer logo | | 21.30 | 9710 |
| Technical inscription | | 21.30 | 9711 |

| Certificates (Net-Prices) | | | |
|---|--|-------|------|
| 2.1 certificate | | 23.50 | Q001 |
| 2.2 certificate | | 32.60 | Q002 |
| 3.1 material certificate | | 49.00 | Q003 |
| 3.1 calibration certificate - 3 points increasing | | 42.00 | Q006 |
| 3.1 calibration certificate - 5 points increasing | | 65.20 | Q007 |

Thermowells and accessories see page 65

| Example ordering code | TBI100-211.162.20T/0751_Q006 | 221.30 | ◀ |
|-----------------------|---|--------|---|
| | TBI Bimetalthermometer nominal size 100, immersion tube outlet radial bottom, Ø 8 mm, L=100 mm, 0 - 120°C Laminated safety glass, 3.1 calibration certificate 3 points | | |

| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|
|--------------|------------|--------------------|-----------------|

TBI

Bimetalthermometer, stainless steel, immersion tube every angle



- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|-------------------------|---|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP67 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -70°C ... 600°C |
| Immersion tube diameter | Ø 8 mm (Ø 6 mm s. Options) |
| Immersion tube outlet | Rear, every angle |
| Connection | Plain stem without thread for direct mounting (Option: sliding or fix connection) |

| Nominal size Immersion tube, material Connection | Ø 100 mm Stainless steel 1.4571 (316ti) | | | |
|--|--|--------------------|--------------------|--------------------|
| | Every angle | Every angle | Every angle | Every angle |
| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| Ordering code ► | TBI100-214.162.*** | TBI100-214.164.*** | TBI100-214.166.*** | TBI100-214.167.*** |
| Temperature range | -20 ... 40 °C | 11118161 | 11195928 | 11195949 |
| | -20 ... 60 °C | 11195888 | 11195929 | 11195970 |
| | -20 ... 100 °C | 11118160 | 11156250 | 11195977 |
| | -30 ... 30 °C | - | - | - |
| | -30 ... 70 °C | 10327568 | 11195927 | 11195947 |
| | -30 ... 170 °C | 11195920 | 11195940 | 11195972 |
| | -70 ... 50 °C | 11195922 | 11172084 | 11195973 |
| Price in Euro | 190.00 | 194.70 | 202.70 | 214.10 |
| Temperature range | 0 ... 60 °C | 10299677 | 10327527 | 10327999 |
| | 0 ... 80 °C | 11195887 | 10327197 | 11195946 |
| | 0 ... 100 °C | 10327890 | 10327690 | 11195942 |
| | 0 ... 120 °C | 10328027 | 11195924 | 10327649 |
| | 0 ... 160 °C | 10327615 | 10327997 | 10327652 |
| Price in Euro | 190.00 | 194.70 | 202.70 | 214.10 |
| Temperature range | 0 ... 200 °C | 11195885 | 11195925 | 11195944 |
| | 0 ... 250 °C | 10327651 | 10327991 | 10327653 |
| | 0 ... 400 °C | 10327619 | 10327231 | 10327654 |
| | 0 ... 500 °C | 11195886 | 11195926 | 11195945 |
| | 0 ... 600 °C | 11162872 | 11195923 | 11195943 |
| Material number ► | | ▲ | ▲ | ▲ |

Additional price for other nominal sizes (NS)

| | | |
|----------|-------|--------------------|
| Ø 80 mm | 0.00 | TBI080-***.***.*** |
| Ø 130 mm | 25.30 | TBI130-***.***.*** |
| Ø 160 mm | 73.20 | TBI160-***.***.*** |

Additional price for integrated process connection

| | | |
|--------------------------------|-------|--------------------|
| G 1/2 male thread, sliding | 17.80 | TBI***-*5*.***.*** |
| 1/2 NPT male thread, sliding | 17.80 | TBI***-*6*.***.*** |
| M20 x 1.5 male thread, sliding | 59.00 | TBI***-*2*.***.*** |
| G 1/2 male thread, fix | 44.30 | TBI***-*C*.***.*** |
| 1/2 NPT male thread, fixed | 44.30 | TBI***-*Q*.***.*** |
| Others on request | | |

Mehrpreise für andere Tauchrohrdurchmesser

| | | |
|--------|-------|------------------|
| Ø 6 mm | -8.30 | TBI***-**.4*.*** |
|--------|-------|------------------|

Options (additional costs)

| | | |
|---|-------|-----------|
| ATEX II 2 GDc (only with option laminated safety glass) | 2.40 | / |
| Case and bezel ring stainless steel 1.4404 (AISI 316L) (only Ø 100 mm and Ø 130 mm) | 35.60 | 0078_0110 |
| Pointer axis with dampening grease | 12.60 | 0581 |
| Laminated safety glass (only Ø 80 mm and Ø 100 mm, others on request) | 8.70 | 0751 |
| Polycarbonat (only for Ø 80 mm and Ø 100 mm, others upon request) | 11.10 | 0753 |
| Silicone-free with mark on dial | 21.30 | 0794 |
| Red mark at ... | 19.40 | 9700 |
| Customer logo | 21.30 | 9710 |
| Technical inscription | 21.30 | 9711 |

Certificates (Net-Prices)

| | | |
|---|-------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate - 3 points increasing | 42.00 | Q006 |
| 3.1 calibration certificate - 5 points increasing | 65.20 | Q007 |

Thermowells and accessories see page 65

| | | |
|---|------------------------------|--------|
| Example ordering code | TBI100-214.162.20T/0751_Q006 | 240.70 |
| TBI Bimetalthermometer nominal size 100, immersion tube outlet every angle, Ø 8 mm, L=100 mm, 0 - 120°C Laminated safety glass, 3.1 calibration certificate 3 points | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

TSS

Gas filled thermometer, stainless steel, direct mounting

- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|-------------------------|--|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -200°C ... 800°C |
| Immersion tube diameter | Ø 8 mm (Ø 6, 9, 10, 11, 12, 14, 16 mm on request) |
| Immersion tube outlet | bottom (others see options) |
| Connection | Plain stem without thread for direct mounting (Option: sliding connection) |



| Nominal size | Ø 100 mm | | | |
|-----------------------|------------------------------|--------------------|--------------------|--------------------|
| | Stainless steel 1.4541 (321) | | | |
| Connection | bottom | bottom | bottom | bottom |
| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| Ordering code ► | TSS100-211.162.*** | TSS100-211.164.*** | TSS100-211.166.*** | TSS100-211.167.*** |
| Price in Euro | 467.60 | 488.80 | 508.80 | 530.00 |
| Temperature range | -200 ... 50 °C | | | |
| | -120 ... 40 °C | | | |
| | -100 ... 50 °C | | | |
| | -80 ... 40 °C | | | |
| | -60 ... 40 °C | | | |
| Price in Euro | 362.50 | 383.70 | 403.70 | 424.90 |
| | -40 ... 40 °C | | | |
| | -30 ... 170 °C | | | |
| | -30 ... 70 °C | | | |
| | -30 ... 30 °C | | | |
| | -20 ... 100 °C | | | |
| | -20 ... 60 °C | | | |
| | -20 ... 40 °C | | | |
| Price in Euro | 292.30 | 313.50 | 333.50 | 354.70 |
| | 0 ... 60 °C | | | |
| | 0 ... 80 °C | | | |
| | 0 ... 100 °C | | | |
| | 0 ... 120 °C | | | |
| | 0 ... 160 °C | | | |
| | 0 ... 200 °C | | | |
| | 0 ... 250 °C | | | |
| | 0 ... 300 °C | | | |
| | 0 ... 400 °C | | | |
| | 0 ... 500 °C | | | |
| | 0 ... 600 °C | | | |
| Price in Euro | 376.60 | 397.80 | 417.80 | 439.00 |
| Material number ► | 0 ... 800 °C | ▲ | ▲ | ▲ |
| | | | | ▲ |

Additional price for other nominal sizes (NS)

| | | |
|----------|--------|--------------------|
| Ø 63 mm | -28.20 | TSS063-***.***.*** |
| Ø 80 mm | -13.00 | TSS080-***.***.*** |
| Ø 160 mm | 53.90 | TSS160-***.***.*** |

Additional price for other immersion tube versions

| | | |
|---|--------|--------------------|
| Immersion tube center back | 0.00 | TSS***-*12.***.*** |
| Immersion tube center back, every angle | 216.10 | TSS***-*42.***.*** |
| Immersion tube bottom, every angle | 216.10 | TSS***-*41.***.*** |

Options (additional costs)

| | | |
|--|--------|-------|
| Sliding connection G 1/2 | 25.60 | / |
| Sliding connection 1/2 NPT | 25.60 | 738J_ |
| Sliding connection M18 x 1.5 | 130.70 | 738P_ |
| Case with silicone filling (Ø 100 mm, others on request) | 52.00 | 0776_ |
| Technical inscription | 24.10 | 9711_ |

Certificates (Net-Prices)

| | | |
|---|-------|-------|
| 2.1 certificate | 23.50 | Q001_ |
| 2.2 certificate | 32.60 | Q002_ |
| 3.1 material certificate | 49.00 | Q003_ |
| 3.1 calibration certificate - 3 points increasing | 42.00 | Q006_ |
| 3.1 calibration certificate - 5 points increasing | 65.20 | Q007_ |

Thermowells and accessories see page 65

| | | |
|---|------------------------------|--------|
| Example ordering code | TSS100-211.162.20T/738C_Q006 | 359.90 |
| TSS Gas filled thermometer, nominal size Ø 100 mm, immersion tube bottom, Ø 8 mm, L=100 mm, 0 - 120°C sliding connection G 1/2, 3.1 calibration certificate 3 points | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

TSF

Gas filled thermometer, stainless steel, with capillary



- Please use exclusively the material number for standard products
- Please use the ordering code for configurated products with options, certificates, ...

| | |
|-------------------------|--|
| Accuracy | Class 1 (EN 13190) |
| Protection rating | IP65 (EN 60529) |
| Housing | Stainless steel 1.4301 (AISI 304) |
| Window | Instrument glass |
| Measurement ranges | -200°C ... 800°C |
| Immersion tube diameter | Ø 8 mm (Ø 6, 9, 10, 11, 12, 14, 16 mm on request) |
| Length of capillary | 2 m (others on request) |
| Connection | Plain stem without thread for direct mounting (Option: sliding connection) |

| Nominal size | Ø 100 mm | | | |
|-----------------------|------------------------------|-----------------------|-----------------------|-----------------------|
| | Stainless steel 1.4541 (321) | | | |
| Capillary outlet | bottom | bottom | bottom | bottom |
| Immersion tube length | 100 mm (4") | 160 mm | 250 mm | 400 mm |
| Ordering code ► | TSF100-211.162.***.20 | TSF100-211.164.***.20 | TSF100-211.166.***.20 | TSF100-211.167.***.20 |
| Price in Euro | 557.50 | 578.70 | 598.70 | 619.90 |
| Temperature range | -200 ... 50 °C | | | |
| | -120 ... 40 °C | | | |
| | -100 ... 50 °C | | | |
| | -80 ... 40 °C | | | |
| | -60 ... 40 °C | | | |
| Price in Euro | 452.40 | 473.60 | 493.60 | 514.80 |
| | -40 ... 40 °C | | | |
| | -30 ... 170 | | | |
| | -30 ... 70 | | | |
| | -30 ... 30 | | | |
| | -20 ... 100 | | | |
| | -20 ... 60 °C | | | |
| | -20 ... 40 °C | | | |
| Price in Euro | 382.20 | 403.40 | 423.40 | 444.60 |
| | 0 ... 60 °C | | | |
| | 0 ... 80 | | | |
| | 0 ... 100 | | | |
| | 0 ... 120 | | | |
| | 0 ... 160 | | | |
| | 0 ... 200 | | | |
| | 0 ... 250 | | | |
| | 0 ... 300 | | | |
| | 0 ... 400 | | | |
| | 0 ... 500 | | | |
| | 0 ... 600 °C | | | |
| Price in Euro | 466.50 | 487.70 | 507.70 | 528.90 |
| Material number ► | 0 ... 800 °C | ▲ | ▲ | ▲ |
| | | | | ▲ |

Additional price for other nominal sizes (NS)

| | | |
|----------|-------|--------------------|
| Ø 63 mm | 46.50 | TSF063-***.***.*** |
| Ø 80 mm | 20.80 | TSF080-***.***.*** |
| Ø 160 mm | 61.20 | TSF160-***.***.*** |

Additional price for other case versions

| | | |
|---|-------|--------------------|
| Capillary outlet bottom with support for wall mounting | 28.20 | TSF***-*61.***.*** |
| Capillary outlet bottom with front flange for panel mounting | 5.20 | TSF***-*21.***.*** |
| Capillary outlet center back with front flange for panel mounting | 5.20 | TSF***-*22.***.*** |
| Capillary outlet bottom with rear flange for wall mounting | 3.00 | TSF***-*31.***.*** |
| Capillary outlet center back with rear flange for wall mounting | 3.00 | TSF***-*32.***.*** |

Options (additional costs)

| | | |
|--|--------|------|
| Sliding connection G 1/2 | 25.60 | / |
| Sliding connection 1/2 NPT | 25.60 | 738C |
| Sliding connection M18 x 1.5 | 130.70 | 738P |
| Case with silicone filling (Ø 100 mm, others on request) | 52.00 | 0776 |
| Technical inscription | 24.10 | 9711 |

Certificates (Net-Prices)

| | | |
|---|-------|------|
| 2.1 certificate | 23.50 | Q001 |
| 2.2 certificate | 32.60 | Q002 |
| 3.1 material certificate | 49.00 | Q003 |
| 3.1 calibration certificate - 3 points increasing | 42.00 | Q006 |
| 3.1 calibration certificate - 5 points increasing | 65.20 | Q007 |

Thermowells and accessories see page 65

| | | |
|---|---------------------------------|--------|
| Example ordering code | TSF100-211.162.20T.20/738C_Q006 | 449.80 |
| TSF Gas filled thermometer, nominal size Ø 100 mm, capillary outlet bottom, Ø 8 mm, L=100 mm, 0 - 120°C 2 m capillary, sliding connection G1/2, 3.1 calibration certificate 3 points | | |

| | | | |
|--------------|------------|--------------------|-----------------|
| Availability | stock item | upon manufacturing | - not available |
|--------------|------------|--------------------|-----------------|

Thermowell for TBI080 / TBI100

Thermometer with sliding connection



► Please use the corresponding material number and / or

► Please use the ordering code

| | | | |
|--------------------------------|---------------------------------|--|--|
| Material | Stainless steel 1.4404 / 1.4571 | | |
| Immersion tube length | 100 mm, 160 mm, 250 mm, 400 mm | | |
| Immersion tube diameter | \varnothing 6 mm | | |

| Installed length (stem diameter 6 mm) | 100 mm (4") | 160 mm | 250 mm | 400 mm |
|---------------------------------------|-------------|--------|--------|--------|
|---------------------------------------|-------------|--------|--------|--------|

Thermowell with threaded connection

| Ordering code ► | G 1/2 male thread | | | |
|---------------------------------|--------------------------|-------------------|-------------------|--------------------|
| | T 09346.0301 | T 09346.0302 | T 09346.0303 | T 09346.0304 |
| Stainless steel 1.4404 / 1.4571 | 76.00 10298560 | 87.50 10326589 | 96.80 10326590 | 111.00 10298561 |



| Price in Euro | 3/4 NPT male thread | | | |
|---------------------------------|----------------------------|--------------------|--------------------|--------------|
| | T 09346.0901 | T 09346.0902 | T 09346.0903 | T 09346.0904 |
| Stainless steel 1.4404 / 1.4571 | 116.70 10326629 | 124.80 11177967 | 135.70 10326630 | - - |

Thermowell with welded connection



| Price in Euro | T 09367.0201 | T 09367.0202 | T 09367.0203 | T 09367.0204 |
|----------------------|---------------------------------|--------------|--------------|--------------|
| | Stainless steel 1.4404 / 1.4571 | 10326755 | 10326756 | 10326757 |

Sliding connection (for immersion tube 6 mm)

| Male thread | G 1/2 | G 3/4 | 1/2 NPT | M20 x 1.5 |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|
| | T 08406.0016 | T 08406.0017 | T 08406.0019 | T 08406.0020 |
| Stainless steel 1.4404 / 1.4571 | 38.40 10298532 | 58.70 10326712 | 46.90 10298533 | 24.80 10326713 |



| Female thread | T 08641.0010 | T 08641.0011 | T 08641.0013 |
|---------------------------------|---------------------|---------------------|---------------------|
| | Price in Euro | 133.50 | 62.10 |
| Stainless steel 1.4404 / 1.4571 | 10326416 | 10326417 | - 10318577 |

Spare parts

| | | | | |
|--------------------------------|---|---|---|--------------------------------------|
| Immersion tube diameter | - | | | \varnothing 6 mm |
| Material | - | - | - | Stainless steel |
| Price in Euro | - | - | - | T 08404.0004 |
| Fitting G 1/4 | - | - | - | 9.40 |
| | - | - | - | 10330185 |
| Price in Euro | - | - | - | T 08405.0004 |
| Olive | - | - | - | 3.20 |
| | - | - | - | 10330197 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

Thermowell for TBI080 / TBI100

Thermometer with sliding connection



- Please use the corresponding material number and / or
- Please use the ordering code

| | | | |
|--------------------------------|---|--|--|
| Material | Stainless steel 1.4404 / 1.4571, Steel, Brass | | |
| Immersion tube length | 100 mm, 160 mm, 250 mm, 400 mm | | |
| Immersion tube diameter | \varnothing 8 mm | | |

| | | | | |
|--|-------------|--------|--------|--------|
| Installed length (stem diameter 8 mm) | 100 mm (4") | 160 mm | 250 mm | 400 mm |
|--|-------------|--------|--------|--------|

Thermowell with threaded connection

| | | | |
|----------------------|--------------------------|---------------------|-------|
| Price in Euro | G 1/2 male thread | | |
| T 08410.0101 | T 08410.0102 | T 08410.0103 | - |
| Brass | 20.90 | 20.90 | 36.60 |

| | | | |
|----------------------|--------------------------|---------------------|-------|
| Price in Euro | G 1/2 male thread | | |
| T 08410.0201 | T 08410.0202 | T 08410.0203 | - |
| Steel | 24.10 | 24.10 | 40.70 |

| | | | |
|---------------------------------|--------------------------|---------------------|---------------------|
| Price in Euro | G 1/2 male thread | | |
| T 08410.0301 | T 08410.0302 | T 08410.0303 | T 08410.0304 |
| Stainless steel 1.4404 / 1.4571 | 63.80 | 63.80 | 73.00 |

| | | | |
|---------------------------------|----------------------------|---------------------|---------------------|
| Price in Euro | 3/4 NPT male thread | | |
| T 08410.0901 | T 08410.0902 | T 08410.0903 | T 08410.0904 |
| Stainless steel 1.4404 / 1.4571 | 119.00 | o.r. | o.r. |

Thermowell with welded connection

| | | | |
|---------------------------------|---------------------|---------------------|---------------------|
| Price in Euro | T 08416.0101 | | |
| Steel | 22.70 | 27.80 | 40.60 |
| | 10330190 | 10326602 | 10330191 |
| Price in Euro | T 08416.0201 | | |
| Stainless steel 1.4404 / 1.4571 | 63.70 | 72.90 | 87.70 |
| | 10326637 | 10298538 | 10326638 |
| T 08416.0204 | T 08416.0203 | T 08416.0202 | T 08416.0104 |
| | | | 135.60 |
| | | | 10326639 |

Sliding connection (for immersion tube 8 mm)

| | | | | |
|----------------------|--|---------------------|---------------------|---------------------|
| Male thread | G 1/2 | G 3/4 | 1/2 NPT | M20 x 1.5 |
| | T 08406.0003 | T 08406.0006 | T 08406.0009 | T 08406.1020 |
| | 38.40 | 41.90 | 49.40 | 39.40 |
| Price in Euro | Stainless steel 1.4404 / 1.4571 | | | 10318683 |
| | 10298528 | 10326632 | 10298530 | |
| Female thread | T 08641.0003 | T 08641.0006 | - | - |
| | 77.60 | 62.10 | - | - |
| | 10298540 | 10326382 | - | - |
| Price in Euro | Stainless steel 1.4404 / 1.4571 | | | |

Mounting sleeve for airducts

| | | | |
|---------------------|----------|---|---|
| ZTH1 | | | |
| J 70148.0001 | - | - | - |
| 7.80 | - | - | - |
| Steel zinc plated | 10271371 | - | - |

Spare parts

| | | | | |
|--------------------------------|--------------------------------------|---------------------|------------------------|---|
| Immersion tube diameter | \varnothing 8 mm | | | - |
| Material | Brass | Steel | Stainless steel | - |
| | T 08404.0001 | T 08404.0002 | T 08404.0003 | - |
| | 4.10 | 9.90 | 11.50 | |
| Price in Euro | 10330188 | 10330189 | 10330184 | - |
| Fitting G 1/4 | | | | |
| T 08405.0001 | T 08405.0002 | T 08405.0003 | - | |
| 1.40 | 1.40 | 4.50 | - | |
| Olive | 10330186 | 10330187 | 10330196 | - |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

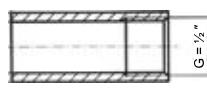
Welded socket for thermowell with threaded connection G 1/2

- Please use the corresponding material number and / or
- Please use the ordering code

Thread without flange

Ordering code ►

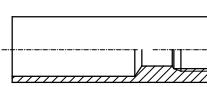
Price in Euro

Steel
G = $\frac{1}{2}$ "


| | 38 mm | 58 mm | 78 mm | - |
|----------------------|--------------|--------------|--------------|---|
| Ordering code | T 09178.0001 | T 09178.0000 | T 09178.0002 | - |
| Price in Euro | 15.00 | 20.50 | 35.80 | |
| Steel | 10326610 | 10326609 | 10326611 | - |
| | 38 mm | 58 mm | 78 mm | - |
| Ordering code | T 09178.0005 | T 09178.0006 | T 09178.0007 | - |
| Price in Euro | 61.00 | 33.50 | 200.30 | |
| Stainless steel | 10326612 | 10326613 | 11092219 | - |

For flat gasket according DIN 3852

Price in Euro

Steel


| | 15 mm | 50 mm | 100 mm (4 ") | 150 mm |
|----------------------|--------------|--------------|--------------|--------------|
| Ordering code | T 09373.0000 | T 09372.0002 | T 09372.0003 | T 09372.0004 |
| Price in Euro | 16.60 | 25.20 | 35.50 | 33.10 |
| Steel | 10318176 | 10326801 | 10326838 | 10326839 |
| | 15 mm | 50 mm | 100 mm (4 ") | - |
| Ordering code | T 09373.0001 | T 09372.0006 | T 09372.0007 | - |
| Price in Euro | 56.40 | 39.50 | 52.90 | - |
| Stainless steel | 10318177 | 10326840 | 11012394 | - |

Flat gasket according DIN 3852

Price in Euro

Copper


| | N 01880.0301 | - | - | - |
|----------------------|--------------|---|---|---|
| Ordering code | N 01880.0301 | - | - | - |
| Price in Euro | 1.80 | - | - | - |
| Copper | 10329823 | - | - | - |
| | N 01880.0302 | - | - | - |
| Ordering code | N 01880.0302 | - | - | - |
| Price in Euro | 1.20 | - | - | - |
| PTFE | 10329824 | - | - | - |
| | N 01880.0306 | - | - | - |
| Ordering code | N 01880.0306 | - | - | - |
| Price in Euro | 6.30 | - | - | - |
| PTFE | 10325765 | - | - | - |

Insulating sleeve to avoid thermal bridge

Price in Euro

PVC


| | 25 mm | 44 mm | 67 mm | 95 mm |
|----------------------|--------------|--------------|--------------|--------------|
| Ordering code | T 09362.0003 | T 09362.0000 | T 09362.0001 | T 09362.0002 |
| Price in Euro | 23.30 | 25.70 | 23.30 | 35.40 |
| PVC | 10326708 | 10326705 | 10326706 | 10326707 |

Material number ►

| | | | |
|---|---|---|---|
| ▲ | ▲ | ▲ | ▲ |
|---|---|---|---|

SDI 439

Level meter for tanks

- Please use the corresponding material number and / or
- Please use the ordering code



| | |
|----------------------------|---|
| Accuracy | Class 1.6 |
| Measurement ranges | 1...3 m Oil column |
| Scaling | 0 .. 1/4 .. 1/2 .. 3/4 .. 1 |
| Housing | Plastic gray |
| Window | Plastic |
| Ambient temperature | -20°C ... 70°C |
| Measuring element | Capsule, copper alloy, with overpressure protection |
| Connection | Ø 6 mm |

| Nominal size | Ø 150mm | | | - | |
|--------------|----------------------|--------------|------------------|----------|--|
| | 1...3 m | | | | |
| | SDI-439.131.111 | | | | |
| | 239.90 | | | | |
| Dials | | 10262331 | | | |
| | Price in Euro | 11.50 | 11.50 | | |
| | 0 ...1'000 liter | 10323361 | ...10'000 Liter | 10262362 | |
| | 0 ...1'500 liter | 10323362 | ...11'000 Liter | 10323426 | |
| | 0 ...1'750 liter | 10323372 | ...12'000 Liter | 10323427 | |
| | 0 ...2'000 liter | 10323373 | ...13'000 Liter | 10323428 | |
| | 0 ...2'250 liter | 10323374 | ...14'000 Liter | 10323429 | |
| | 0 ...2'500 liter | 10262359 | ...15'000 Liter | 10262363 | |
| | 0 ...3'000 liter | 10323375 | ...16'000 Liter | 10323436 | |
| | 0 ...3'250 liter | 10323376 | ...18'000 Liter | 10323437 | |
| | 0 ...3'500 liter | 10323377 | ...20'000 Liter | 10323438 | |
| | 0 ...3'750 liter | 10323391 | ...25'000 Liter | 10323439 | |
| | 0 ...4'000 liter | 10262360 | ...28'000 Liter | 10323440 | |
| | 0 ...4'250 liter | 10323392 | ...30'000 Liter | 10323449 | |
| | 0 ...4'500 liter | 10323393 | ...32'000 Liter | 10323450 | |
| | 0 ...4'750 liter | 10323394 | ...35'000 Liter | 10323451 | |
| | 0 ...5'000 liter | 10262361 | ...38'000 Liter | 10323452 | |
| | 0 ...5'250 liter | 10323395 | ...40'000 Liter | 10323453 | |
| | 0 ...5'500 liter | 10323404 | ...42'000 Liter | 10323454 | |
| | 0 ...5'750 liter | 10323405 | ...48'000 Liter | 10323455 | |
| | 0 ...6'000 liter | 10323406 | ...50'000 Liter | 10323456 | |
| | 0 ...6'250 liter | 10323407 | ...55'000 Liter | 10323457 | |
| | 0 ...6'500 liter | 10323408 | ...60'000 Liter | 10323466 | |
| | 0 ...6'750 liter | 10323409 | ...65'000 Liter | 10323467 | |
| | 0 ...7000 liter | 10323410 | ...70'000 Liter | 10323468 | |
| | 0 ...7250 liter | 10323411 | ...75'000 Liter | 10323469 | |
| | 0 ...7500 liter | 10323412 | ...80'000 Liter | 10323470 | |
| | 0 ...7750 liter | 10323413 | ...85'000 Liter | 10323471 | |
| | 0 ...8'000 liter | 10323414 | ...90'000 Liter | 10323472 | |
| | 0 ...8'500 liter | 10323423 | ...95'000 Liter | 10323473 | |
| | 0 ...9'000 liter | 10323424 | ...100'000 Liter | 10323474 | |
| | 0 ...9'500 liter | 10323425 | - | - | |

Material number ►

▲ ▲ ▲ ▲

Options (additional costs)

Scale according to customer specifications (tank shape, tank height, density)

11.50

/

9709

Example ordering code

SDI-439.131.111/9709

251.40

◀

Area 1 ... 3 m

Linear scale 0 ... 2'250 liters

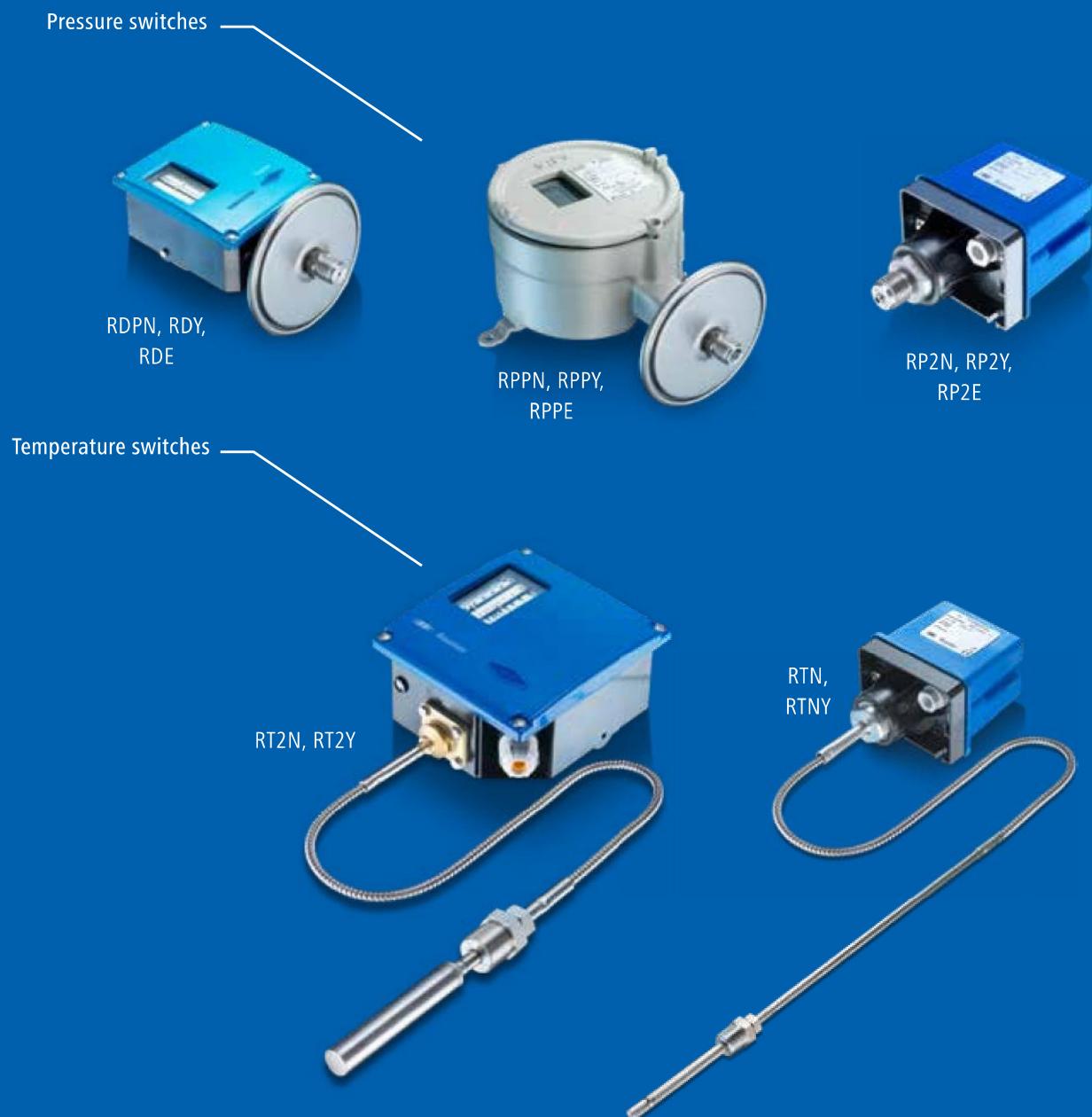
Availability

stock item

upon manufacturing

- not available

Pressure and temperature switches – reliable safety for all processes.



Integrated microswitches for almost all ambient conditions, optionally with ATEX approval, reliably indicate limit values and interrupt critical processes.

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