

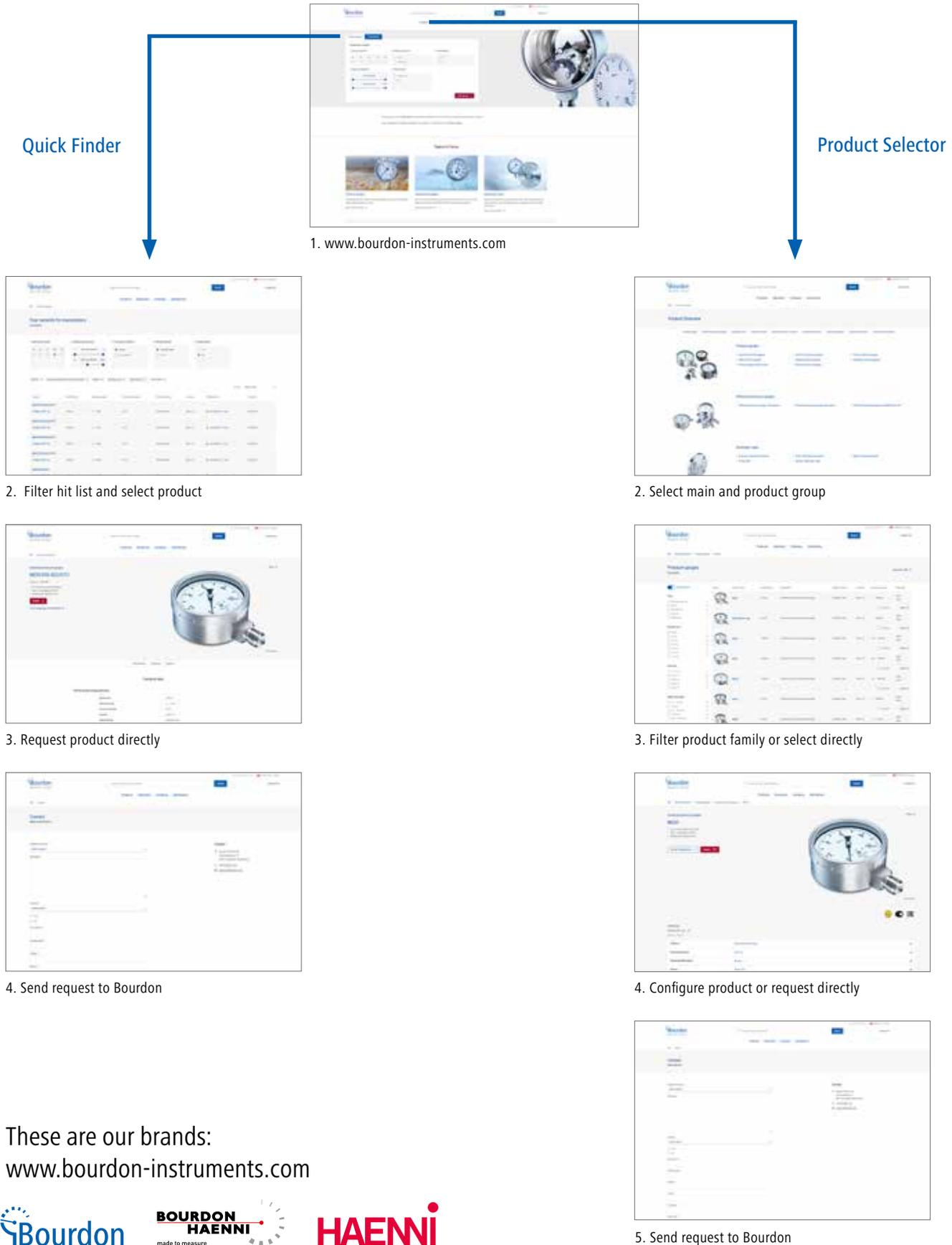
# Bourdon temperature and pressure measurement technology

Variants and stock catalog 2022



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With just a few clicks you can select and configure the product you want from millions of variants. Your online inquiry will be answered immediately. This saves you time searching and pricing, and you can find all the relevant information in one place.



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 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, 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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# 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-instruments.com](http://www.bourdon-instruments.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](mailto: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.



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## We have the answers.



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Do you need technical advice on site?  
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field and office staff



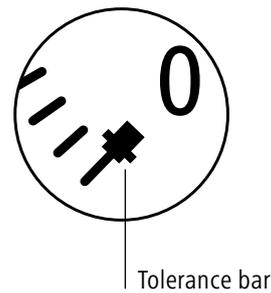
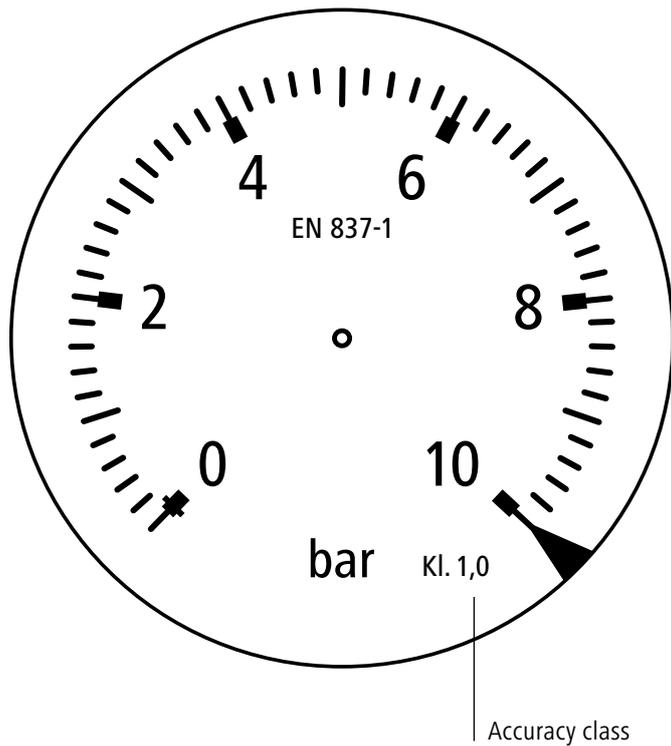
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# Accuracy specifications for pressure.

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  $-1 \dots 5$  bar

Measuring span: 6 bar

Permitted error:  $\pm 60$  mbar ( $\pm 1\%$  of 6 bar)

Capsule pressure gauge, Class 1.6

Measuring range  $0 \dots 250$  mbar

Measuring span: 250 mbar

Permitted error:  $\pm 4$  mbar ( $\pm 1.6\%$  of 250 mbar)

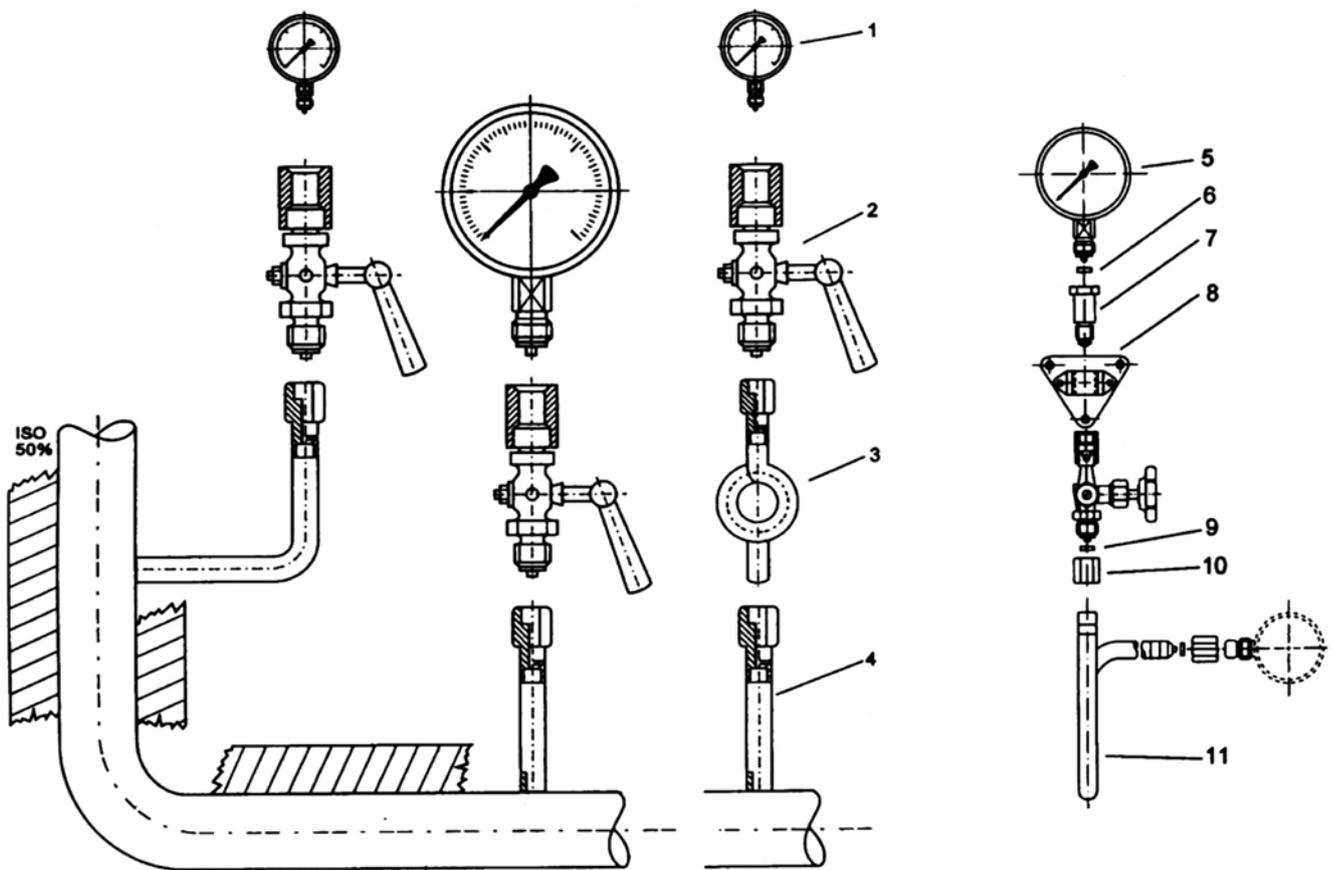
# Installation example for pressure gauges.

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

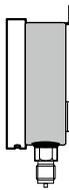
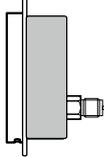
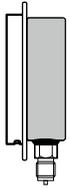
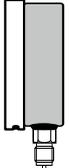
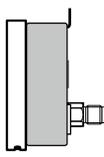
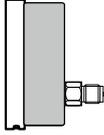
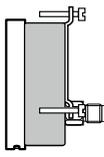
5. Pressure gauge
6. Gasket
7. Spacer
8. Mounting support
9. Gasket
10. Adjusting nut
11. Siphon, U-shape



## 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

## Industrial pressure gauge stainless steel / brass - nominal size 63



- ▶ 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 837-1
Protection rating	IP65 (EN 60529)
Housing	Stainless steel 1.4301 (AISI 304)
	Crimped housing
Bourdon tube	Copper alloy
Connection	Copper alloy
Window	Laminated safety 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 ▶		MMD3-D20.B**	MMD3-F20.B**	MMD3-D22.B**	MMD3-F22.B**	**▼	
Price in Euro		47.10	50.00	60.30	63.20		
Pressure range	-1 ...0 bar	11168895	11167275	11168418	11197090	59	
	-1 ...0.6 bar	11197061	11197065	11197076	11197091	72	
	-1 ...1.5 bar	11171690	11197066	11197077	11197092	74	
	-1 ...3 bar	11197062	11197067	11168425	11195068	76	
	-1 ...5 bar	11170565	11197068	11173539	11197093	77	
	-1 ...9 bar	11179055	11197069	11167897	11166190	79	
	-1 ...15 bar	11170566	11197070	11197078	11197094	81	
	0 ...0.6 bar	11179924	11197071	11197079	11197095	12	
	0 ...1 bar	11165165	11197072	11180532	11197096	15	
	0 ...1.6 bar	11159220	11159237	11159228	11159249	16	
	0 ...2.5 bar	11159221	11159238	11159229	11159251	18	
	0 ...4 bar	11159222	11159239	11159230	11159253	19	
	Price in Euro		45.60	48.50	58.80	61.70	
	0 ...6 bar	11159223	11159240	11159232	11159254	20	
	0 ...10 bar	11159224	11159241	11159233	11159255	22	
	0 ...16 bar	11159225	11159242	11159234	11159256	24	
	0 ...25 bar	11159226	11159243	11159235	11159257	26	
	0 ...40 bar	11159227	11159244	11159236	11159258	27	
	0 ...60 bar	11167629	11193176	11167860	11179408	29	
	Price in Euro		50.70	53.60	63.90	66.80	
0 ...100 bar	11167273	11197073	11165354	11184220	31		
0 ...160 bar	11167276	11188302	11169985	11173520	33		
0 ...250 bar	11167277	11197074	11167783	11175341	35		
0 ...400 bar	11197063	11188303	11164876	11179900	38		
0 ...600 bar	11197064	11197075	11182222	11178446	39		
Material number ▶		▲	▲	▲	▲		

Process connection	G 1/2 (with connection piece)	15.50	MMD3-*3*.B**
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Certificates (Net-Prices)			
2.1 certificate		25.90	Q001
2.2 certificate		35.90	Q002
3.1 calibration certificate - 5 points increasing, 1 point decreasing		47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing		58.80	Q009

Example ordering code	MMD3-D20.B20	45.60
	MMD3 nominal size 63, connection bottom G 1/4, dry, 0...6 bar	

Availability	stock item	upon manufacturing	- not available
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# MMD5

## Industrial pressure gauge stainless steel / brass - 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 1.0 (according to EN 837-1)
Protection rating	IP54 / IP65 (EN 60529)
Housing	Stainless steel 1.4301 (AISI 304)
	DIN case, bajonet
Bourdon tube	Copper alloy
Connection	Copper alloy
Window	Instrument glass
Ambient temperature	-20°C ... 70°C

Nominal size		Ø 100 mm				
Process connection		G 1/2				
Connection		bottom	rear	bottom	rear	
Damping liquid		unfilled	unfilled	Glycerine	Glycerine	
Ordering code ►		MMD5-D30.B**	MMD5-F30.B**	MMD5-D31.B**	MMD5-F31.B**	**▼
	Price in Euro	69.40	103.90	88.60	123.10	
Pressure range						
	-1 ...0 bar	10292058	10292237	10292114	10292251	59
	-1 ...0.6 bar	11196776	11196797	11196779	11196816	72
	-1 ...1.5 bar	10292061	11196798	11196790	11196817	74
	-1 ...3 bar	10292063	10292239	10292117	10292253	76
	-1 ...5 bar	10292066	10292240	10292118	10292254	77
	-1 ...9 bar	10292067	10292241	10292119	10292255	79
	-1 ...15 bar	10292068	11196799	11196791	11196819	81
	0 ...0.6 bar	10292003	11196795	11196778	11196810	12
	0 ...1 bar	10292005	11078186	10292099	11196813	15
	0 ...1.6 bar	10292009	10292228	10292100	10292242	16
	0 ...2.5 bar	10292012	10292229	10292101	10292243	18
	0 ...4 bar	10292016	10292230	10292102	10292244	19
	Price in Euro	66.50	101.00	85.70	120.20	
	0 ...6 bar	10292019	10292231	10292104	10292245	20
	0 ...10 bar	10292028	10292232	10292105	10292246	22
	0 ...16 bar	10292041	10292233	10292107	10292247	24
	0 ...25 bar	10292048	10292234	10292109	10292248	26
	0 ...40 bar	10292051	10292235	10292111	10292249	27
	0 ...60 bar	10292054	11196796	10292113	11196815	29
Material number ►		▲	▲	▲	▲	

Mounting type connection (surcharge to mounting typ D)			
	Bottom, 3 lugs for wall-mount	18.70	MMD5-A**,B**
	Rear, front ring for panel-mount, 3 mounting holes	81.70	MMD5-B**,B**
	Bottom, front ring for panel-mount, 3 mounting holes	47.20	MMD5-C**,B**
	Rear, front ring and mounting elements for panel-mount	152.90	MMD5-G**,B**

Process connection			
	G 1/4	16.10	MMD5-*2*,B**
	1/2 NPT	0.00	MMD5-*6*,B**

Options (additional costs)			
	Laminated safety glass	7.50	/
	Silicone-free with mark on dial	20.90	0751
	Adjustable pointer on dial (only without glycerin filling)	10.70	0794
	Adjustable pointer on window	31.00	0051
	Indexpointer, adjustable by magnet	40.50	0053
			0054

Certificates (Net-Prices)			
	2.1 certificate	25.90	Q001
	2.2 certificate	35.90	Q002
	3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
	3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

Example ordering code	MMD5-D30.B20/0053	97.50	◀
	MMD5 nominal size 100, connection bottom G 1/2, dry, 0...6 bar		
	Adjustable pointer on window		

Availability	stock item	upon manufacturing	- not available
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# MEX2

## Industrial pressure gauge stainless steel - nominal size 50



► 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 837-1
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				
Process connection	bottom	rear	bottom	rear	
Connection					
Damping liquid	unfilled	unfilled	Glycerine	Glycerine	
Ordering code ►	MEX2-D20.B**	MEX2-F20.B**	MEX2-D21.B**	MEX2-F21.B**	**▼
Price in Euro	107.00	110.80	112.40	116.20	
Pressure range	-1 ...0 bar	10275234	10275610	10275310	59
	-1 ...0.6 bar	10275235	10275611	11181414	72
	-1 ...1.5 bar	10275238	10275612	11100911	74
Price in Euro	82.30	86.10	87.70	91.50	
	-1 ...3 bar	10275239	11039009	10275311	76
	-1 ...5 bar	10275240	10275613	10275312	77
	-1 ...9 bar	10275242	10275616	10275313	79
	-1 ...15 bar	10275243	11018114	10275314	81
	-1 ...24 bar	10275245	10275617	11130734	82
Price in Euro	98.80	102.60	104.20	108.00	
	0 ...1 bar	10275196	10275572	10275283	15
	0 ...1.6 bar	10275198	10275574	10275284	16
	0 ...2.5 bar	10275199	10275577	10275286	18
Price in Euro	83.30	87.10	88.70	92.50	
	0 ...4 bar	11012434	11012492	10275288	19
	0 ...6 bar	11012436	11012494	10275289	20
Price in Euro	76.30	80.10	81.70	85.50	
	0 ...10 bar	11012448	11012497	10275294	22
	0 ...16 bar	11012450	11012498	10275297	24
	0 ...25 bar	10275214	10275593	10275299	26
	0 ...40 bar	11012460	11012499	10275301	27
Price in Euro	96.90	100.70	102.30	106.10	
	0 ...60 bar	11012490	11012501	10275303	29
	0 ...100 bar	10275224	10275602	10275305	31
	0 ...160 bar	10275225	11053143	10275306	33
	0 ...250 bar	10275226	10275605	10275307	35
	0 ...400 bar	10275232	10275608	10275308	38
	0 ...600 bar	10275233	10275609	11080604	39
Price in Euro	138.00	141.80	143.40	147.20	
	0 ...1000 bar	11195744	11195745	10275309	41
Material number ►	▲	▲	▲	▲	

### Mounting type connection (surcharge to mounting typ D)

Bottom, 3 lugs for wall-mount	12.00	MEX2-A**.B**
Rear, front ring for panel-mount, 3 mounting holes	13.30	MEX2-B**.B**
Rear, front ring and mounting bracket for panel-mount	26.60	MEX2-G**.B**

### Process connection

1/4 NPT	0.00	MEX2-*5*.B**
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### Options (additional costs)

Laminated safety glass	2.20	0751
Window polycarbonate	7.90	0753
ATEX CE II 2 GDC-IM2c (only with option laminated safety glass)	4.90	0078

### Certificates (Net-Prices)

2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

Example ordering code	MEX2-D21.B20/0751_Q001	116.80	◀
	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
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# 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 configured 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			
Process connection		G 1/4			
Connection		bottom	rear	bottom	rear
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		78.20	81.30	82.50	85.60
Pressure range	-1 ...0 bar	11170238	11172657	11172561	11172678 59
	-1 ...0.6 bar	11172530	11172658	11172562	11172679 72
	-1 ...1.5 bar	11172532	11172659	11172564	11172680 74
Price in Euro		55.60	58.70	59.90	63.00
	-1 ...3 bar	11172534	11172660	11172569	11172681 76
	-1 ...5 bar	11172535	11172661	11172570	11172683 77
	-1 ...9 bar	11172537	11172662	11172572	11172684 79
	-1 ...15 bar	11172538	11172663	11172573	11172685 81
	-1 ...24 bar	11172540	11172664	11172575	11172686 82
Price in Euro		70.40	73.50	74.70	77.80
	0 ...1 bar	11170134	11172628	11172546	11172584 15
	0 ...1.6 bar	11170178	11172629	11172548	11172585 16
	0 ...2.5 bar	11170216	11172640	11172550	11172586 18
Price in Euro		56.80	59.90	61.10	64.20
	0 ...4 bar	11170217	11172642	11172551	11172587 19
	0 ...6 bar	11170219	11172643	11172553	11172588 20
Price in Euro		50.30	53.40	54.60	57.70
	0 ...10 bar	11170220	11170231	11170322	11172589 22
	0 ...16 bar	11170221	11172645	11172555	11172670 24
	0 ...25 bar	11170223	11170233	11170324	11172671 26
	0 ...40 bar	11170129	11172646	11172557	11172672 27
Price in Euro		68.90	72.00	73.20	76.30
	0 ...60 bar	11170224	11172647	11172559	11172673 29
	0 ...100 bar	11170225	11172649	11170325	11172674 31
	0 ...160 bar	11170227	11172650	11170326	11172675 33
	0 ...250 bar	11170228	11172654	11170327	11172676 35
	0 ...400 bar	11170236	11172655	11170328	11172677 38
	0 ...600 bar	11170237	11196263	11170329	11196264 39
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

12.10

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

### Process connection

1/4 NPT

0.00

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

### Certificates (Net-Prices)

2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009



### Example ordering code

MEX3-D50.B22/0133 Q008

97.70

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 configured 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	114.70	119.00	119.00	123.30	
Pressure range					
-1 ...0 bar	11159572	11159573	11195811	11195851	59
-1 ...0.6 bar	11195798	11195832	11195812	11195852	72
-1 ...1.5 bar	11195799	11195833	11010284	11195853	74
Price in Euro	92.10	96.40	96.40	100.70	
-1 ...3 bar	11195800	11195834	11195813	11195854	76
-1 ...5 bar	11195801	11195835	11195814	10347423	77
-1 ...9 bar	11195802	11195836	11195817	11195855	79
-1 ...15 bar	11137908	11195837	11195815	11195857	81
-1 ...24 bar	11195803	11195838	11195816	11195856	82
Price in Euro	106.90	111.20	111.20	115.50	
0 ...1 bar	11195766	11195818	11195804	11195839	15
0 ...1.6 bar	11195767	11195819	11195805	11195840	16
0 ...2.5 bar	11195768	11195820	10275934	11195841	18
Price in Euro	93.30	97.60	97.60	101.90	
0 ...4 bar	11195769	11195822	11195806	11195842	19
0 ...6 bar	11046837	11178347	11130431	11168242	20
Price in Euro	86.80	91.10	91.10	95.40	
0 ...10 bar	10275928	11195821	10275935	11195305	22
0 ...16 bar	11195790	11187841	11145744	11195843	24
0 ...25 bar	11195791	11166385	10275936	11195844	26
0 ...40 bar	11195792	11195823	11195807	11147680	27
Price in Euro	105.40	109.70	109.70	114.00	
0 ...60 bar	11195793	11195824	10275937	11195845	29
0 ...100 bar	11195794	11195825	10275939	11195846	31
0 ...160 bar	10275930	11195826	11195808	11195847	33
0 ...250 bar	10275931	11195827	10275940	11195848	35
0 ...400 bar	11195795	11195828	11155936	11151802	38
0 ...600 bar	11195796	11195829	11195809	11195849	39
Price in Euro	143.20	147.50	147.50	151.80	
0 ...1000 bar	11195797	11195831	11195810	11195850	41
Material number ►	▲	▲	▲	▲	

### Mounting type connection (surcharge to mounting typ 4)

Bottom, rear flange for wall-mount	22.00	MEX3-1**.B**
Rear, front ring for panel-mount, 3 mounting holes	23.60	MEX3-2**.B**
Rear, front ring and mounting bracket for panel-mount	27.30	MEX3-7**.B**

### Process connection

1/4 NPT	0.00	MEX3-*5*.B**
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### Options (additional costs)

Laminated safety glass	1.60	0751
Window polycarbonate	6.80	0753
Friction pointer adjustable	1.60	0679
ATEX CE II 2 GDC-IM2c (only with option laminated safety glass)	4.90	0078

### Certificates (Net-Prices)

2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

Example ordering code	MEX3-450.B22/0751_Q008	135.80
	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
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# MEX5

## Industrial pressure gauge stainless steel - 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 1.0 (according to EN 837-1)
Protection rating	IP65 (EN 60529)
Housing	Stainless steel 1.4301 (AISI 304) DIN case, bajonet
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 100 mm				
Process connection		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**	**▼
<b>Price in Euro</b>		<b>120.50</b>	<b>140.80</b>	<b>141.80</b>	<b>162.10</b>	
Pressure range	-1 ...0 bar	11011230	10286482	10283158	10286610	59
	-1 ...0.6 bar	10282286	10286484	10283169	10286614	72
	-1 ...1.5 bar	11011233	10286486	10283177	10286615	74
<b>Price in Euro</b>		<b>94.30</b>	<b>114.60</b>	<b>115.60</b>	<b>135.90</b>	
Pressure range	-1 ...3 bar	11011234	10286487	10283189	10286616	76
	-1 ...5 bar	11011237	10286489	10283201	10286617	77
	-1 ...9 bar	11011238	10286493	10283215	10286622	79
Pressure range	-1 ...15 bar	10282404	10286497	10283227	10286624	81
	-1 ...24 bar	10282417	10286498	10283235	11133438	82
	<b>Price in Euro</b>	<b>112.50</b>	<b>132.80</b>	<b>133.80</b>	<b>154.10</b>	
Pressure range	0 ...0.6 bar	11011101	10286392	10282834	11133437	12
	0 ...1 bar	11011111	10286395	10282841	10286538	15
	0 ...1.6 bar	11011128	10286399	10282852	10286540	16
	0 ...2.5 bar	11011142	11164350	10282864	10286541	18
<b>Price in Euro</b>		<b>87.70</b>	<b>108.00</b>	<b>109.00</b>	<b>129.30</b>	
Pressure range	0 ...4 bar	11011143	10286405	10282883	10286546	19
	0 ...6 bar	11011146	10286414	10282908	10286552	20
	0 ...10 bar	11011161	10286424	10282943	10286565	22
Pressure range	0 ...16 bar	11011162	10286434	10282984	10286579	24
	0 ...25 bar	11011164	10286443	10283023	10286586	26
	<b>Price in Euro</b>	<b>108.70</b>	<b>129.00</b>	<b>130.00</b>	<b>150.30</b>	
Pressure range	0 ...40 bar	11011174	10286455	10283052	10286590	27
	0 ...60 bar	11011177	10286463	10283070	10286594	29
	0 ...100 bar	11011178	10286466	10283091	10286597	31
	0 ...160 bar	11011179	10286468	10283105	10286598	33
	0 ...250 bar	11011221	10286469	10283112	10286599	35
	0 ...400 bar	11011222	10286471	10283126	10286601	38
	0 ...600 bar	11011223	10286475	10283140	10286603	39
	<b>Price in Euro</b>	<b>151.60</b>	<b>171.90</b>	<b>172.90</b>	<b>193.20</b>	
Pressure range	0 ...1000 bar	11011227	10286476	10283145	10286605	41
	0 ...1600 bar	10282256	10286478	10283155	10286607	42
<b>Material number ►</b>		▲	▲	▲	▲	

Mounting type connection (surcharge to mounting typ D)			
Bottom, 3 lugs for wall-mount		26.90	MEX5-A**B**
Rear, front ring for panel-mount, 3 mounting holes		68.50	MEX5-B**B**
Rear, 3 lugs for wall-mount		47.50	MEX5-E**B**
Rear, front ring and mounting bracket for panel-mount		51.30	MEX5-G**B**

Process connection			
1/2 NPT		0.00	MEX5-*6*B**

Options (additional costs)			
Laminated safety glass		4.70	0751
Window polycarbonate		11.70	0753
Micro adjustable pointer (P > 1.6 bar)		4.40	0678
ATEX CE II 2 GDC-IM2c (only with option laminated safety glass)		4.90	0078
Blow out disc at the back		8.80	0760
Restrictor screw		9.00	0771
Measuring element (free of oil and grease)		17.10	0764
Silicone-free with mark on dial		14.30	0794
Adjustable pointer on dial (only without glycerin filling)		10.30	0051
Adjustable pointer on window		30.90	0053

Certificates (Net-Prices)			
2.1 certificate		25.90	Q001
2.2 certificate		35.90	Q002
3.1 material certificate		54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing		47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing		58.80	Q009

Example ordering code			
MEX5-D30.B20/0751_Q008		139.80	◀
MEX5 nominal size 100, connection bottom G 1/2, dry, 0...6 bar			
Laminated safety glass, 3.1 calibration certificate			

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 configured 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) DIN case, bajonet
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 160 mm			
Process connection		G 1/2			
Connection		bottom	rear	bottom	rear
Damping liquid		unfilled	unfilled	Glycerine	Glycerine
Ordering code ►		MEX8-D30.B**	MEX8-F30.B**	MEX8-D31.B**	MEX8-F31.B**
Price in Euro		210.00	225.30	235.20	250.50
Pressure range					
	-1 ...0 bar	10287474	11209780	10287591	11209790
	-1 ...0.6 bar	10287479	10287794	10287592	11209791
	-1 ...1.5 bar	10287481	11209781	10287594	11209792
Price in Euro		186.60	201.90	211.80	227.10
	-1 ...3 bar	10287485	11209782	11133494	11209793
	-1 ...5 bar	10287490	10287795	10287598	11209794
	-1 ...9 bar	10287493	10287797	10287600	11209763
	-1 ...15 bar	10287494	11045507	11112365	11209764
	-1 ...24 bar	11133489	11209783	11093930	11209765
Price in Euro		202.80	218.10	228.00	243.30
	0 ...0.6 bar	10287357	10287785	10287527	10287803
	0 ...1 bar	10287360	11094741	10287528	11209766
	0 ...1.6 bar	10287364	11176083	10287532	11209767
	0 ...2.5 bar	10287366	11209784	10287534	11209768
Price in Euro		181.20	196.50	206.40	221.70
	0 ...4 bar	10287370	11047120	10287537	11209769
	0 ...6 bar	10287380	11013819	10287543	10287804
	0 ...10 bar	10287389	10287786	10287550	11126795
	0 ...16 bar	10287400	10287787	10287554	11014188
	0 ...25 bar	10287410	11128548	10287560	10287807
Price in Euro		199.20	214.50	224.40	239.70
	0 ...40 bar	10287429	10287788	10287563	11103272
	0 ...60 bar	10287439	11209785	10287569	11209797
	0 ...100 bar	10287446	10287789	10287571	11209798
	0 ...160 bar	10287451	10287790	10287575	11209799
	0 ...250 bar	10287457	11128547	10287580	11209800
	0 ...400 bar	10287461	11209786	10287582	11209801
	0 ...600 bar	10287465	11209787	10287584	11209802
Price in Euro		237.30	252.60	262.50	277.80
	0 ...1000 bar	10287470	11209789	10287587	11209803
	0 ...1600 bar	10287471	10287792	10287589	11209804
Material number ►		▲	▲	▲	▲

### Mounting type connection (surcharge to mounting typ D)

Bottom, 3 lugs for wall-mount	12.90	MEX8-A**B**
Rear, front ring for panel-mount, 3 mounting holes	53.10	MEX8-B**B**
Rear, 3 lugs for wall-mount	28.80	MEX8-E**B**

### Process connection

1/2 NPT	0.00	MEX8-*6*B**
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### Options (additional costs)

Laminated safety glass	8.40	0751
Window polycarbonate	12.90	0753
Friction pointer adjustable	10.50	0679
ATEX CE II 2 GDC-IM2c (only with option laminated safety glass)	4.90	0078
Restrictor screw	9.00	0771
Measuring element (free of oil and grease)	17.10	0764
Silicone-free with mark on dial	14.30	0794
Adjustable pointer on dial (only without glycerin filling)	11.10	0051
Adjustable pointer on window	31.80	0053

### Certificates (Net-Prices)

2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

Example ordering code	MEX8-D30.B20/0751_Q008	237.00	◀
	MEX8 nominal size 160, connection bottom G 1/2, dry, 0...6 bar		
	Laminated safety glass, 3.1 calibration certificate		

Availability	stock item	upon manufacturing	- not available
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# MEP3

## Safety pressure gauge stainless steel - nominal size 63



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

<b>Accuracy</b>	Class 1.6 according to EN 837-1
<b>Protection rating</b>	IP65 (EN 60529)
<b>Housing</b>	Stainless steel 1.4404 (AISI 316L)
	Safety S3 according EN 837-1
<b>Bourdon tube</b>	Stainless steel 1.4404 (AISI 316L)
<b>Connection</b>	Stainless steel 1.4404 (AISI 316L)
<b>Window</b>	Laminated safety glass
<b>Ambient temperature</b>	-20°C ... 70°C

Nominal size	Ø 63 mm				
	G 1/4				
Process connection	bottom	rear	bottom	rear	
Connection					
<b>Damping liquid</b>	unfilled	unfilled	Glycerine	Glycerine	
<b>Ordering code ▶</b>	MEP3-420.B**	MEP3-620.B**	MEP3-421.B**	MEP3-621.B**	**▼
<b>Price in EUR</b>	115.20	124.50	120.70	130.00	
<b>Pressure range</b>					
-1 ...0 bar					59
-1 ...0.6 bar					72
-1 ...1.5 bar					74
<b>Price in EUR</b>	93.40	102.70	98.90	108.20	
-1 ...3 bar					76
-1 ...5 bar					77
-1 ...9 bar					79
-1 ...15 bar					81
-1 ...24 bar					82
<b>Price in EUR</b>	107.60	116.90	113.10	122.40	
0 ...1 bar					15
0 ...1.6 bar					16
0 ...2.5 bar					18
<b>Price in EUR</b>	94.20	103.50	99.70	109.00	
0 ...4 bar					19
0 ...6 bar					20
<b>Price in EUR</b>	87.90	97.20	93.40	102.70	
0 ...10 bar					22
0 ...16 bar					24
0 ...25 bar					26
0 ...40 bar					27
<b>Price in EUR</b>	106.00	115.30	111.50	120.80	
0 ...60 bar					29
0 ...100 bar					31
0 ...160 bar					33
0 ...250 bar					35
0 ...400 bar					38
0 ...600 bar	-	-	-	-	39
<b>Price in EUR</b>	-	-	-	-	
0 ...1000 bar					41
<b>Material number ▶</b>	▲	▲	▲	▲	

### Mounting type connection (surcharge to mounting typ 4)

Bottom, 3 lugs for wall-mount	12.30	MEP3-1**.B**
Rear, front ring for panel-mount, 3 mounting holes	16.70	MEP3-2**.B**

### Process connection

1/4 NPT	0.00	MEP3-*5*.B**
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### Options (additional costs)

Internal compensation membrane (IP67)	21.60	0763
Window polycarbonate	6.80	0753
Restrictor screw 0.3 mm	9.00	0769
ATEX CE II 2 GDC-IM2c (only with laminated safety glass)	4.90	0078

### Certificates (Net-Prices)

2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

<b>Example ordering code</b>	MEP3-420.B22/0078_Q008	140.20
	MEP3 nominal size 63, connection bottom G 1/4, dry, 0...10 bar	
	ATEX, 3.1 calibration certificate	

<b>Availability</b>	stock item	upon manufacturing	- not available
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# MEP5

## Safety pressure gauge stainless steel - 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 1.0 (according to EN 837-1)
Protection rating	IP65 (EN 60529)
Housing	Stainless steel 1.4404 (AISI 316L)
	Safety S3 according EN 837-1
Bourdon tube	Stainless steel 1.4404 (AISI 316L)
Connection	Stainless steel 1.4404 (AISI 316L)
Window	Laminated safety glass
Ambient temperature	-20°C ... 70°C

Nominal size		Ø 100 mm			
Process connection		G 1/2			
Connection		bottom	rear	bottom	rear
Damping liquid		unfilled	unfilled	Glycerine	Glycerine
Ordering code ▶		MEP5-430.B**	MEP5-630.B**	MEP5-431.B**	MEP5-631.B**
Price in EUR		176.40	195.50	195.40	214.50
Pressure range					
	-1 ...0 bar				59
	-1 ...0.6 bar				72
	-1 ...1.5 bar				74
Price in EUR		153.80	172.90	172.80	191.90
	-1 ...3 bar				76
	-1 ...5 bar				77
	-1 ...9 bar				79
	-1 ...15 bar				81
	-1 ...24 bar				82
Price in EUR		170.00	189.10	189.00	208.10
	0 ...0.6 bar				12
	0 ...1 bar				15
	0 ...1.6 bar				16
	0 ...2.5 bar				18
Price in EUR		148.40	167.50	167.40	186.50
	0 ...4 bar				19
	0 ...6 bar				20
	0 ...10 bar				22
	0 ...16 bar				24
	0 ...25 bar				26
Price in EUR		166.40	185.50	185.40	204.50
	0 ...40 bar				27
	0 ...60 bar				29
	0 ...100 bar				31
	0 ...160 bar				33
	0 ...250 bar				35
	0 ...400 bar				38
	0 ...600 bar				39
Price in EUR		204.50	223.60	223.50	242.60
	0 ...1000 bar				41
	0 ...1600 bar				42
Material number ▶		▲	▲	▲	▲

### Mounting type connection (surcharge to mounting typ 4)

Bottom, 3 lugs for wall-mount	52.50	MEP5-1**B**
Rear, front ring for panel-mount, 3 mounting holes	80.50	MEP5-2**B**
Bottom, mounting on 2" pipes	194.50	MEP5-8**B**

### Process connection

1/2 NPT	0.00	MEP5-*6*B**
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### Options (additional costs)

Window polycarbonate	11.70	0753
Friction pointer adjustable	4.40	0679
Micro adjustable pointer (P > 1.6 bar)	4.40	0678
ATEX CE II 2 GDC-IM2c (only with laminated safety glass)	4.90	0078
Internal compensation membrane (IP67)	23.50	0763
Restrictor screw 0.5 mm	9.00	0771
Measuring element free of oil and grease for oxygen	17.10	0765
Silicone-free with mark on dial	14.30	0794
Adjustable pointer on dial (only without glycerin filling)	10.30	0051
Adjustable pointer on window	30.90	0053

### Certificates (Net-Prices)

2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

### Example ordering code

MEP5-430.B20/0078_Q008	200.70	◀
MEP5 nominal size 100, connection bottom G 1/2, dry, 0...6 bar		
ATEX, 3.1 calibration certificate		

Availability	stock item	upon manufacturing	- not available
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# 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 configured products with options, certificates, ...

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

Nominal size	Ø 100 mm		Ø 160 mm		
	M16 x 1.5 female, conical		M16 x 1.5 female, conical		
Process connection	bottom	bottom	bottom	bottom	
<b>Connection</b>					
<b>Damping liquid</b>	unfilled	Glycerine	unfilled	Glycerine 1)	
<b>Ordering code ▶</b>	MFP5-DU0.B**	MFP5-DU1.B**	MFP8-DU0.B**	MFP8-DU1.B**	**▼
	732.80	780.10	897.60	972.60	
<b>Pressure range</b>					
0...2'000 bar					43
0...2'500 bar					96
0...3'000 bar					44
	1485.00	1532.30	1791.30	1866.30	
0...4'000 bar					45
0...5'000 bar	-	-			46
<b>Price in Euro</b>	-	-	2100.80	2175.80	
0...6'000 bar	-	-			47
0...7'000 bar	-	-			92
<b>Material number ▶</b>	▲	▲	▲	▲	

<b>Mounting type connection (surcharge to mounting typ D)</b>			
Bottom, 3 lugs for wall-mount	40.70	MFP*-A** B**	
Rear, front ring for panel-mount, 3 mounting holes	53.00	MFP*-C** B**	

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

<b>Certificates (Net-Prices)</b>			
2.1 certificate	25.90		Q001
2.2 certificate	35.90		Q002
3.1 material certificate	54.00		Q003
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	a.A.		Q009

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

<b>Example ordering code</b>	MFP8-D30.B96/Q003	951.60	◀
	MFP8 nominal size 160, connection bottom G 1/2, dry, 0...2500 bar		
	3.1 material certificate		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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
	Window snap-fitted to the case
Bourdon tube	Copper alloy
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		
Process connection	bottom	rear	bottom	rear	
Connection					
Damping liquid	unfilled	unfilled	unfilled	unfilled	
Ordering code ▶	MPT1-D10.B**	MPT1-F10.B**	MPT2-D20.B**	MPT2-F20.B**	** ▼
	10.60	10.80	11.60	11.60	
Pressure range					
	-1 ...0 bar				59
	0 ...1 bar				15
		8.50	8.70	9.50	
	0 ...1.6 bar				16
	0 ...2.5 bar				18
		8.50	8.70	9.50	
	0 ...4 bar				19
	0 ...6 bar				20
	0 ...10 bar				22
	0 ...16 bar				24
	0 ...25 bar				26
	0 ...40 bar				27
	0 ...60 bar				29
	0 ...100 bar				31
	0 ...160 bar				33
	0 ...250 bar				35
Material number ▶	▲	▲	▲	▲	

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

Example ordering code	MPT1-D10.B20	8.50	◀
	MPT1 nominal size 40, connection bottom G 1/8, unfilled, 0...6 bar		

Availability	stock item	upon manufacturing	- not available
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# 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
	Window snap-fitted to the case
Bourdon tube	Copper alloy
Connection	Copper alloy
Window	Acrylic glass
Ambient temperature	-20°C ... 70°C

Nominal size	Ø 63 mm					
Process connection	G 1/4					
Connection	bottom	rear				
						
Damping liquid	unfilled	unfilled	-	-		
Ordering code ▶	MPT3-D20.B**	MPT3-F20.B**	-	-	**▼	
Price in Euro	11.10	11.10	-	-		
Pressure range	-1 ...0 bar		-	-	59	
	0 ...1 bar		-	-	15	
	0 ...1.6 bar		-	-	16	
	0 ...2.5 bar		-	-	18	
	Price in Euro	9.50	9.50	-	-	
	0 ...4 bar		-	-	19	
	0 ...6 bar		-	-	20	
	0 ...10 bar		-	-	22	
	0 ...16 bar		-	-	24	
	0 ...25 bar		-	-	26	
	0 ...40 bar		-	-	27	
	Price in Euro	10.40	10.40	-	-	
	0 ...60 bar		-	-	29	
0 ...100 bar		-	-	31		
0 ...160 bar		-	-	33		
0 ...250 bar		-	-	35		
Material number ▶	▲	▲	▲	▲		

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

Example ordering code	MPT3-F20.B20	9.50	◀
MPT3 nominal size 63, connection bottom G 1/4, dry, 0...6 bar			

Availability	stock item	upon manufacturing	- not available
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# 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
	Bezel ring, removable
Bourdon tube	Copper alloy
Connection	Copper alloy
Window	Instrument glass
Ambient temperature	-20°C ...70°C

Nominal size	Ø 40 mm		Ø 50 mm		
	G 1/8		G 1/4		
Process connection	bottom	rear	bottom	rear	
Connection					
Damping liquid	unfilled	unfilled	unfilled	unfilled	
Ordering code ▶	MAT1-D10.B**	MAT1-F10.B**	MAT2-D20.B**	MAT2-F20.B**	**▼
Price in Euro	10.60	10.80	11.60	11.60	
Pressure range					
-1 ...0 bar	10272294	10272313	11155915	11155916	59
0 ...1 bar	10272281	10272296	10272327	10272355	15
Price in Euro	8.50	8.70	9.50	9.50	
0 ...1.6 bar	10272282	10272297	10272328	11196002	16
0 ...2.5 bar	10272283	10272298	10272329	10272357	18
Price in Euro	8.50	8.70	9.50	9.50	
0 ...4 bar	10272284	10272299	10272330	10272358	19
0 ...6 bar	10272285	10272301	10272331	10272359	20
0 ...10 bar	10272286	10272303	10272332	10272360	22
0 ...16 bar	10272287	10272305	10272334	10272361	24
0 ...25 bar	10272288	10272306	10272335	10272362	26
0 ...40 bar	10272289	10272307	10272336	10272363	27
0 ...60 bar	10272290	10272308	10325495	11196003	29
0 ...100 bar	10272291	10272309	11195988	11196004	31
0 ...160 bar	10272292	10272310	10272337	11196005	33
0 ...250 bar	10272293	10272311	11196001	11196006	35
Material number ▶	▲	▲	▲	▲	

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

Example ordering code	MAT1-D10.B20	8.50	◀
	MAT1 nominal size 40, connection bottom G 1/8, dry, 0...6 bar		

Availability	stock item	upon manufacturing	- not available
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# 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
	Bezel ring, removable
Bourdon tube	Copper alloy
Connection	Copper alloy
Window	Instrument glass
Ambient temperature	-20°C ... 70°C

Nominal size	Ø 63 mm				
	G 1/4				
Process connection					
Connection	bottom	rear			
					
Damping liquid	unfilled	unfilled	-	-	
Ordering code ▶	MAT3-D20.B**	MAT3-F20.B**	-	-	**▼
Price in Euro	11.10	11.10	-	-	
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	9.50	9.50	-	-	
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	10.40	10.40	-	-	
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	9.50	▶
MAT3 nominal size 63, connection bottom G 1/4, dry, 0...6 bar			

Availability	stock item	upon manufacturing	- not available
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# 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
	Bezel ring, removable
Bourdon tube	Copper alloy
Connection	Copper alloy
Window	Instrument glass
Ambient temperature	-20°C ... 70°C

	Ø 100 mm					
	G 1/2					
Nominal size					-	
Process connection					-	
Connection	bottom	rear				
						
Damping liquid	unfilled	unfilled	-	-		
Ordering code ▶	MAT5-D30.B**	MAT5-F30.B**	-	-	**▼	
	<b>Price in Euro</b>	<b>18.40</b>	<b>18.40</b>	-	-	
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
		<b>Price in Euro</b>	<b>17.70</b>	<b>17.70</b>	-	-
	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
		<b>Price in Euro</b>	<b>18.40</b>	<b>18.40</b>	-	-
	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	17.70	◀
MAT5 nominal size 100, bottom connection, dry, 0...6 bar			

Availability	stock item	upon manufacturing	- not available
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# 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	
Connection					
Damping liquid	unfilled	unfilled	unfilled	unfilled	
<b>Ordering code ►</b>	<b>MIT3-D20.B**</b>	<b>MIT3-B20.B**</b>	<b>MIT3-F20.B**</b>	<b>MIT3-G20.B**</b>	<b>**▼</b>
<b>Price in Euro</b>	<b>21.30</b>	<b>22.20</b>	<b>22.20</b>	<b>24.30</b>	
<b>Pressure range</b>					
-1 ...0 bar	10325559	11195907	10325596	11195938	59
0 ...1 bar	10325663	11195892	10325567	11195913	15
<b>Price in Euro</b>	<b>20.10</b>	<b>21.00</b>	<b>21.00</b>	<b>23.10</b>	
0 ...1.6 bar	10325664	11195893	10325568	11195914	16
0 ...2.5 bar	10325665	11195894	10325569	10325576	18
0 ...4 bar	10325667	11195895	10325570	11195916	19
0 ...6 bar	10325547	11195896	10325571	11195917	20
0 ...10 bar	10325548	11195897	10325572	10325580	22
0 ...16 bar	10325549	11195898	10325588	11195918	24
0 ...25 bar	10325551	11195899	10325589	11195919	26
0 ...40 bar	10325552	11195900	11155861	11195930	27
0 ...60 bar	10325553	11195901	10325590	11195931	29
0 ...100 bar	10325554	11195902	10325591	11195933	31
0 ...160 bar	10325555	11195903	10325592	11195934	33
0 ...250 bar	10325556	11195904	10325593	11195935	35
<b>Price in Euro</b>	<b>21.30</b>	<b>22.20</b>	<b>22.20</b>	<b>24.30</b>	
0 ...400 bar	11195908	11013309	11195910	11195936	38
0 ...600 bar	11195909	11195905	11195911	11195937	39
<b>Material number ►</b>	▲	▲	▲	▲	

<b>Process connection</b>	1/4 NPT (only with double scale psi/bar, pressure ranges and availability upon request)	0.00	MIT3-*5*.S**
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Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

<b>Example ordering code</b>	MIT3-F20.B26	21.00	◀
	MIT3 nominal size 63, connection center back G 1/4, dry, 0...25 bar		
<b>Availability</b>	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	
Connection					
Damping liquid	Glycerine	Glycerine	Glycerine	Glycerine	
Ordering code ▶	MIT3-D22.B**	MIT3-B22.B**	MIT3-F22.B**	MIT3-G22.B**	**▼
Price in Euro	25.40	26.30	26.30	28.40	
Pressure range					
-1 ...0 bar	10288225	10288199	10288320	10288378	59
0 ...1 bar	10288206	10288184	10288306	10288364	15
Price in Euro	24.20	25.10	25.10	27.20	
0 ...1.6 bar	10288207	11210123	11210125	11210126	16
0 ...2.5 bar	10288208	10288185	10288307	10288365	18
0 ...4 bar	10288209	10288186	10288308	10288366	19
0 ...6 bar	10288212	10288187	10288309	10288367	20
0 ...10 bar	10288213	10288188	10288310	10288368	22
0 ...16 bar	10288214	10288189	10288311	10288369	24
0 ...25 bar	10288216	10288190	10288312	10288370	26
0 ...40 bar	10288217	10288191	10288313	10288371	27
0 ...60 bar	10288218	10288192	10288314	10288372	29
0 ...100 bar	10288219	10288193	10288315	10288373	31
0 ...160 bar	10288220	10288195	10288316	10288374	33
0 ...250 bar	10288221	10288196	10288317	10288375	35
Price in Euro	25.40	26.30	26.30	28.40	
0 ...400 bar	10288222	10288197	10288318	10288376	38
0 ...600 bar	10288223	10288198	10288319	10288377	39
Material number ▶	▲	▲	▲	▲	

Process connection	1/4 NPT (only with double scale psi/bar, pressure ranges and availability upon request)	0.00	MIT3-*5*.S**
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Minimum order quantity 50 pieces for material numbers with availability - upon manufacturing

Example ordering code	MIT3-F22.B26	25.10	◀
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	61.00	61.00	75.80	75.80	
Pressure range					
-1 ...0 bar	11195954	11195980	11195957	11195984	59
0 ...1 bar	11155864	11195959	10288395	11155887	15
Price in Euro	52.10	52.10	66.90	66.90	
0 ...1.6 bar	11195939	11195960	11195955	11195982	16
0 ...2.5 bar	11155865	11195961	10288396	11155888	18
0 ...4 bar	11155866	11155873	10288397	11155889	19
0 ...6 bar	11155867	11155874	10288398	11155890	20
0 ...10 bar	11155868	11155884	10288400	11155891	22
0 ...16 bar	11155869	11155885	10288402	11155892	24
0 ...25 bar	11155870	11155886	10288405	11155893	26
0 ...40 bar	11155872	11195962	10288406	11155894	27
0 ...60 bar	11195950	11195964	10288407	11155899	29
Price in Euro	75.20	75.20	90.00	90.00	
0 ...100 bar	11195951	11195965	10288408	11155910	31
0 ...160 bar	11195952	11195967	10288409	11155911	33
0 ...250 bar	11195953	11195968	10288410	11155912	35
Material number ▶	▲	▲	▲	▲	

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

Example ordering code	MIT5-F32.B26	66.90	◀
MIT5 nominal size 100, connection center back G 1/2, Glycerin, 0...25 bar			

Availability	stock item	upon manufacturing	- not available
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# 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



<b>Accuracy</b>	Class 2.5 (according to EN 837-1)
<b>Protection rating</b>	IP32 (EN 60529)
<b>Case and bezel ring</b>	Stainless steel 1.4301 (AISI 304)
	Bezel ring, removable
<b>Bourdon tube</b>	Copper alloy
<b>Connection</b>	Copper alloy
<b>Window</b>	Instrument glass
<b>Scaling</b>	Triple scale bar, kg/cm2, psi
<b>Ambient temperature</b>	-20°C ...70°C

Nominal size	Ø 40 mm		Ø 50 mm		
	1/8 NPT	1/4 NPT	1/4 NPT		
<b>Process connection</b>					
<b>Connection</b>	rear	rear	bottom		
<b>Damping liquid</b>	unfilled	unfilled	unfilled		
<b>Ordering code ▶</b>	MTR1-F40.B**	MTR1-F50.B**	MTR2-D50.B**	-	**▼
<b>Price in Euro</b>	<b>20.50</b>	<b>20.50</b>	<b>22.60</b>		
<b>Pressure range</b>					
0 ...2.5 bar	10294292	10294297	10294304	-	17
0 ...4 bar	10294293	10294298	10294305	-	19
0 ...6 bar	10294294	10294299	10294306	-	21
0 ...10 bar	10294295	10294300	10294307	-	94
<b>Material number ▶</b>	▲	▲	▲	▲	

**Example ordering code**      MTR1-F40.B21      20.50      ◀

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

<b>Availability</b>	stock item	upon manufacturing	- not available
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# MTA2

## Capsule pressure gauge - nominal size 50



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

<b>Accuracy</b>	Class 1.6 (according to EN 837-3) Zero adjustment screw on front side
<b>Protection rating</b>	IP44 (EN 60529), version bottom connection IP33
<b>Housing</b>	Stainless steel 1.4301 (AISI 304)
<b>Measuring element</b>	Capsule Copper alloy
<b>Connection</b>	Copper alloy
<b>Window</b>	Polycarbonate, snap-fitted into the case
<b>Ambient temperature</b>	-20°C ... 60°C

		Ø 50 mm G 1/4				
		bottom	rear	rear with front ring for panel-mount	rear with U-clamp for panel-mount	
<b>Nominal size</b>						
<b>Process connection</b>						
<b>Connection</b>						
<b>Damping liquid</b>		unfilled	unfilled	unfilled	unfilled	
<b>Ordering code ▶</b>		MTA2-D20.N**	MTA2-F20.N**	MTA2-B20.N**	MTA2-G20.N**	** ▼
<b>Price in Euro</b>		122.20	114.40	122.20	144.00	
<b>Pressure range</b>						
	-25 ...40 mbar	11014874	11128292	11195992	11196121	64
	-40 ...60 mbar	11196064	11196091	11195994	11196122	65
<b>Price in Euro</b>		116.10	108.30	116.10	137.90	
	-60 .100 mbar	10293912	11196092	11195998	11196124	66
<b>Price in Euro</b>		122.20	114.40	122.20	144.00	
	0 ...60 mbar	10293900	10293929	10293888	10293953	07
	0 .100 mbar	10293901	10293931	10293889	10293954	08
<b>Price in Euro</b>		116.10	108.30	116.10	137.90	
	0 .160 mbar	10293902	10293933	10293890	11016671	09
	0 .250 mbar	10293903	10293934	11195948	10293955	10
	0 .400 mbar	10293905	10293935	10293891	11138953	11
	0 .600 mbar	10293906	10293936	10293892	10293957	12
<b>Price in Euro</b>		122.20	114.40	122.20	144.00	
	-60 ...0 mbar	10293907	10293939	11180927	11196095	53
	-100 ...0 mbar	10293908	10293941	11195971	11196096	54
<b>Price in Euro</b>		116.10	108.30	116.10	137.90	
	-160 ...0 mbar	10293909	11196076	11195974	11196097	55
	-250 ...0 mbar	10293910	11196079	11195976	11196098	56
	-400 ...0 mbar	10293911	10293942	11195978	11196099	57
	-600 ...0 mbar	11196061	11196090	11195990	11196120	58
	-100 .160 mbar	11196067	11181533	11196010	11196123	67
	-160 .250 mbar	11196070	11196093	11196047	11196125	68
	-250 .400 mbar	11196073	11196094	11196049	11196126	69
<b>Material number ▶</b>		▲	▲	▲	▲	

<b>Process connection</b>	1/4 NPT	0.00	MTA2-*50.N**
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<b>Certificates (Net-Prices)</b>			/
	2.1 certificate	25.90	Q001
	2.2 certificate	35.90	Q002
	3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
	3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

<b>Example ordering code</b>	MTA2-F20.N10	108.30	◀
	MTA2 nominal size 50, connection center back, G 1/4, dry, 0...250 mbar		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# MTA3

## Capsule pressure gauge - nominal size 63



- ▶ 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

		Ø 63 mm G 1/4				
		bottom	rear	rear with front ring for panel-mount	rear with U-clamp for panel-mount	
Damping liquid		unfilled	unfilled	unfilled	unfilled	
Ordering code ▶		MTA3-D20.N**	MTA3-F20.N**	MTA3-B20.N**	MTA3-G20.N**	** ▼
Price in Euro		<b>128.10</b>	<b>122.30</b>	<b>140.90</b>	<b>152.00</b>	
Pressure range	-25 ...40 mbar	10294003	10294093	11196129	11196147	<b>64</b>
	-40 ...60 mbar	10294004	10294094	10293975	11196175	<b>65</b>
Price in Euro		<b>121.70</b>	<b>115.90</b>	<b>134.50</b>	<b>145.60</b>	
	-60 .100 mbar	10294007	10356079	10293976	11196177	<b>66</b>
	Price in Euro	<b>128.10</b>	<b>122.30</b>	<b>140.90</b>	<b>152.00</b>	
	0 ...60 mbar	11012109	10294079	10293964	10294109	<b>07</b>
	0 .100 mbar	11012132	10294082	10293965	10294111	<b>08</b>
Price in Euro		<b>121.70</b>	<b>115.90</b>	<b>134.50</b>	<b>145.60</b>	
	0 .160 mbar	10293991	10294083	10293966	11099102	<b>09</b>
	0 .250 mbar	10293992	10294084	10293967	10294112	<b>10</b>
	0 .400 mbar	11012133	11012134	10293968	11047933	<b>11</b>
	0 .600 mbar	10293995	10294086	10293969	10294113	<b>12</b>
Price in Euro		<b>128.10</b>	<b>122.30</b>	<b>140.90</b>	<b>152.00</b>	
	-60 ...0 mbar	10293996	10294087	10293970	11105372	<b>53</b>
	-100 ...0 mbar	10293997	10294088	10293971	10294114	<b>54</b>
Price in Euro		<b>121.70</b>	<b>115.90</b>	<b>134.50</b>	<b>145.60</b>	
	-160 ...0 mbar	10293999	10294089	11014674	11196145	<b>55</b>
	-250 ...0 mbar	10294000	10294090	10293973	10294115	<b>56</b>
	-400 ...0 mbar	10294001	10294092	10293974	10294116	<b>57</b>
	-600 ...0 mbar	10294002	11196142	11196128	11196146	<b>58</b>
	-100 .160 mbar	10294008	10294095	11094104	11196190	<b>67</b>
	-160 .250 mbar	10294009	11196143	10293977	11196191	<b>68</b>
	-250 .400 mbar	11196141	11196144	11196140	11196192	<b>69</b>
	Material number ▶	▲	▲	▲	▲	

Process connection	1/4 NPT	<b>12.80</b>	MTA3-*50.N**
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Certificates (Net-Prices)			/
	2.1 certificate	<b>25.90</b>	Q001
	2.2 certificate	<b>35.90</b>	Q002
	3.1 calibration certificate - 5 points increasing, 1 point decreasing	<b>47.40</b>	Q008
	3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	<b>58.80</b>	Q009

Example ordering code	MTA3-F20.N11	115.90	◀
MTA3 nominal size 63, connection center back, G 1/4, dry, 0...400 mbar			

Availability	stock item	upon manufacturing	- not available
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# 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, ...

<b>Accuracy</b>	Class 1.6 (according to EN 837-3) Zero adjustment screw on front side
<b>Protection rating</b>	IP44 (EN 60529), version bottom connection IP33
<b>Housing</b>	Stainless steel 1.4301 (AISI 304)
<b>Measuring element</b>	Capsule Copper alloy
<b>Connection</b>	Copper alloy
<b>Window</b>	Polycarbonate, snap-fitted into the case
<b>Ambient temperature</b>	-20°C ... 60°C

	Ø 100 mm G 1/2					
	bottom	rear	rear with front ring for panel-mount	rear with 3 lugs for wall-mount		
<b>Nominal size</b>						
<b>Process connection</b>						
<b>Connection</b>						
<b>Damping liquid</b>	unfilled					
<b>Ordering code ►</b>	MTA5-D30.N**	MTA5-F30.N**	MTA5-B30.N**	MTA5-E30.N**	**▼	
<b>Price in Euro</b>	175.30	181.50	213.30	207.10		
<b>Pressure range</b>	-16 ...0 mbar	10294179	11196244	10294143	11196227	50
<b>Price in Euro</b>	164.00	170.20	202.00	195.80		
	-25 ...0 mbar	10294180	11196245	10294144	11196229	51
	-40 ...0 mbar	10294181	10294259	10294145	11196230	52
<b>Price in Euro</b>	175.30	181.50	213.30	207.10		
	-6 ...10 mbar	10294189	11196249	11196198	11196236	61
<b>Price in Euro</b>	164.00	170.20	202.00	195.80		
	-10 ...16 mbar	10294190	11196250	10294148	11196237	62
	-16 ...25 mbar	10294191	11196251	11196201	11196238	63
	-25 ...40 mbar	-	-	-	-	64
<b>Price in Euro</b>	127.30	133.50	165.30	159.10		
	-40 ...60 mbar	10294193	11196252	11196202	11196239	65
	-60 ...100 mbar	11052044	11196253	11196203	11196240	66
<b>Price in Euro</b>	153.90	160.10	191.90	185.70		
	0 ...16 mbar	10294168	10294250	10294138	11196209	04
	0 ...25 mbar	10294169	10294251	10294139	11196220	05
	0 ...40 mbar	10294170	10294252	11140699	11196221	06
	0 ...60 mbar	-	-	-	-	07
<b>Price in Euro</b>	127.30	133.50	165.30	159.10		
	0 ...100 mbar	11012136	10294254	10294140	11196222	08
	0 ...160 mbar	10294175	10294255	10294141	11196207	09
	0 ...250 mbar	10294176	10294256	11119902	11196223	10
	0 ...400 mbar	10294177	10294257	11180521	11196225	11
	0 ...600 mbar	11012137	10294258	10294142	11196226	12
<b>Price in Euro</b>	-	-	-	-		
	-60 ...0 mbar	-	-	-	-	53
<b>Price in Euro</b>	127.30	133.50	165.30	159.10		
	-100 ...0 mbar	10294183	11196246	11196193	11196232	54
	-160 ...0 mbar	10294185	10294260	10294147	11196233	55
	-250 ...0 mbar	10294186	11196247	11196194	11196234	56
	-400 ...0 mbar	10294187	11196248	11196195	11196235	57
	-600 ...0 mbar	10294188	10294261	11196197	11014572	58
	-100 ...160 mbar	10294194	11196254	11196204	11196241	67
	-160 ...250 mbar	10294195	11196255	11196205	11196242	68
	-250 ...400 mbar	10294196	11196256	11196206	11196243	69
<b>Material number ►</b>	▲	▲	▲	▲		

<b>Mounting type connection (surcharge to mounting typ D)</b>			
	Bottom, 3 lugs for wall-mount	25.60	MTA5-A**.N**
<b>Process connection</b>			
	1/2 NPT	17.60	MTA5-6*.N**
<b>Options (additional costs)</b>			
	Restrictor screw	9.00	0771
<b>Certificates (Net-Prices)</b>			
	2.1 certificate	25.90	Q001
	2.2 certificate	35.90	Q002
	3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
	3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

<b>Example ordering code</b>	MTA5-D30.N06/0771	162.90	◀
	MTA5 nominal size 100, connection bottom G 1/2, dry, 0...40 mbar		
	Restrictor screw		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# MTX5

## 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, ...

<b>Accuracy</b>	Class 1.6 (according to EN 837-3) Zero adjustment screw on front side
<b>Protection rating</b>	IP44 (EN 60529), version bottom connection IP33
<b>Housing</b>	Stainless steel 1.4301 (AISI 304)
<b>Measuring element</b>	Capsule, stainless steel
<b>Connection</b>	Stainless steel 1.4404 (AISI 316L)
<b>Window</b>	Polycarbonate, snap-fitted into the case
<b>Ambient temperature</b>	-20°C ... 60°C

	Ø 100 mm					
	G 1/2					
Nominal size						
Process connection						
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 ►	MTX5-D30.N**	MTX5-F30.N**	MTX5-B30.N**	MTX5-E30.N**	**▼	
Price in Euro	248.80	257.30	300.70	292.20		
Pressure range	-16 ...0 mbar	10294381	11196182	11196137	11196169	50
Price in Euro	232.10	240.60	284.00	275.50		
	-25 ...0 mbar	10294382	11083607	11105847	11196180	51
	-40 ...0 mbar	11129968	11196210	11196138	11196181	52
Price in Euro	248.80	257.30	300.70	292.20		
	-6 ...10 mbar	10294390	11196219	11196152	11196187	61
Price in Euro	232.10	240.60	284.00	275.50		
	-10 ...16 mbar	10294391	11196260	11196153	11196188	62
	-16 ...25 mbar	10294392	10358907	11196154	11196189	63
	-25 ...40 mbar	-	-	-	-	64
Price in Euro	185.00	193.50	236.90	228.40		
	-40 ...60 mbar	10294394	10294480	11196155	11196211	65
	-60 ...100 mbar	10294396	11196261	11196156	11196212	66
Price in Euro	238.20	246.70	290.10	281.60		
	0 ...16 mbar	10294368	11196159	11196135	11196160	04
Price in Euro	221.80	230.30	273.70	265.20		
	0 ...25 mbar	10294369	11105852	10294337	11196161	05
	0 ...40 mbar	10294370	10294472	11044055	11196162	06
	0 ...60 mbar	-	-	-	-	07
Price in Euro	185.00	193.50	236.90	228.40		
	0 ...100 mbar	10294373	10294474	10294339	11196164	08
	0 ...160 mbar	10294374	10294475	10358900	11196165	09
	0 ...250 mbar	10294375	10294476	10294341	11196166	10
	0 ...400 mbar	10294377	10294477	10294342	11196167	11
	0 ...600 mbar	10294378	10294478	11105850	11196168	12
Price in Euro	-	-	-	-		
	-60 ...0 mbar	-	-	-	-	53
Price in Euro	185.00	193.50	236.90	228.40		
	-100 ...0 mbar	10294384	11105851	11015952	11196183	54
	-160 ...0 mbar	10294385	11196216	11196139	11196184	55
	-250 ...0 mbar	10294386	10294479	11105849	11141713	56
	-400 ...0 mbar	10294387	11196217	11196150	11196185	57
	-600 ...0 mbar	10294388	11196218	11196151	11196186	58
	-100 ...160 mbar	10294398	11050827	11196157	11196213	67
	-160 ...250 mbar	10294399	11196262	11196158	11196136	68
	-250 ...400 mbar	10294400	11050902	10294344	11196159	69
Material number ►	▲	▲	▲	▲		

<b>Mounting type connection (surcharge to mounting typ D)</b>	Bottom, 3 lugs for wall-mount	34.90	MTX5-A**.N**
<b>Process connection</b>	1/2 NPT	24.00	MTX5-6*.N**
<b>Options (additional costs)</b>	Restrictor screw	9.00	0771
<b>Certificates (Net-Prices)</b>	2.1 certificate	25.90	Q001
	2.2 certificate	35.90	Q002
	3.1 material certificate	54.00	Q003
	3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
	3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

**Example ordering code** MTX5-D60.N09 209.00  
 MTX5 nominal size 100, connection bottom 1/2 NPT, dry, 0...160 mbar

<b>Availability</b>	stock item	upon manufacturing	- not available
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# DK100

## 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)
Protection rating	IP41 (EN 60529)
Housing	Stainless steel 1.4301 (AISI 304)
Measuring element	DIN case, bajonet
Connection	Capsule
Window	Copper alloy
Ambient temperature	Copper alloy
	Instrument glass
	-20°C ... 70°C

		Ø 100 mm G 1/2				
		bottom	rear			
Nominal size						
Process connection						
Connection						
Damping liquid		unfilled	unfilled	-	-	
Ordering code ►		DK100-211.111.***	DK100-212.111.***	-	***▼	
Price in Euro		109.50	109.50	-	-	
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		126.80	126.80	-	-
	-40 ...0 mbar	11196101	11196119	-	386	
	-60 ...0 mbar	11196102	11196130	-	396	
-100 ...0 mbar	11196105	11196131	-	406		
Price in Euro		126.80	126.80	-	-	
-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	31.00	DK100-231.***.***
Rear, front ring for panel-mount, 3 mounting holes	49.60	DK100-222.***.***
Rear, front ring and mounting element for panel-mount	49.60	DK100-252.***.***

Certificates (Net-Prices)		
2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

Example ordering code **DK100-211.111.136** 109.50  
 DK100 nominal size 100, connection bottom, G 1/2, dry, 0...160 mbar

Availability	stock item	upon manufacturing	- not available
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# DRD100

## Differential 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
Protection rating	IP33 (EN 60529)
Housing	Steel, black Bezel ring, removable
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

		Ø 100 mm 2 x G 1/2			
		bottom	bottom, wall mounting		
Nominal size					
Process connection					
Connection					
Damping liquid		unfilled	unfilled	-	-
Ordering code ▶		DRD100-111.911.***	DRD100-131.911.***	-	- ***▼
Price in Euro		188.80	237.00	-	-
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		25.90	Q001
2.2 certificate		35.90	Q002
3.1 calibration certificate - 5 points increasing, 1 point decreasing		47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing		58.80	Q009

Example ordering code	DRD100-111.911.065	188.80	◀
DRD100 Nominal size 100, bottom connection, 2 x G 1/2, dry, 0...6 bar			

Availability	stock item	upon manufacturing	- not available
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# 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 configured 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**	MEX3-F21.B**	**▼
		DANC01.2H2A.01/0753_Q003				
Price in Euro		<b>329.70</b>	<b>332.80</b>	<b>334.00</b>	<b>337.10</b>	
Pressure range	-1 ...3 bar	11208794	11208828	11176558	11208856	76
	-1 ...5 bar	11208795	11208829	11204416	11208857	77
	-1 ...9 bar	11208816	11208830	11176578	11208858	79
	-1 ...15 bar	11208817	11208831	11208851	11208859	81
	-1 ...24 bar	11208818	11208832	11208852	11208860	82
Price in Euro		<b>344.50</b>	<b>347.60</b>	<b>348.80</b>	<b>351.90</b>	
Pressure range	0 ...2.5 bar	11208819	11208833	11208853	11208862	18
	Price in Euro	<b>330.90</b>	<b>334.00</b>	<b>335.20</b>	<b>338.30</b>	
Pressure range	0 ...4 bar	11208820	11208835	11208854	11208863	19
	0 ...6 bar	11208821	11208836	11176579	11208864	20
Price in Euro		<b>324.40</b>	<b>327.50</b>	<b>328.70</b>	<b>331.80</b>	
Pressure range	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		1.60	0751
Friction pointer adjustable		1.60	0679
ATEX CE II 2 GDc-IM2c (only with option laminated safety glass)		4.90	0078

Certificates (Net-Prices)			
2.1 certificate		25.90	Q001
2.2 certificate		35.90	Q002
3.1 material certificate (incl.)		0.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing		47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing		58.80	Q009

Example ordering code	MEX3-D21.B20.DANC01.2H2A.01/0753_Q003	335.20
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
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# 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 configured 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)

		Ø 63 mm				
		Clamp DN51 (ISO 2852) / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L)				
Nominal size						
Process connection / Diaphragm						
Connection		bottom 	rear 	bottom 	rear 	
Damping liquid		unfilled	unfilled	Glycerine	Glycerine	
Ordering code		MEX3-D20.B**	MEX3-F20.B**	MEX3-D21.B**	MEX3-F21.B**	** ▼
		.DANC02.2H2A.01/0753_Q003				
Pressure range	Price in Euro	<b>403.70</b>	<b>406.80</b>	<b>408.00</b>	<b>411.10</b>	
	-1 ...1.5 bar	11208891	11208911	11208928	11208938	74
	Price in Euro	<b>381.10</b>	<b>384.20</b>	<b>385.40</b>	<b>388.50</b>	
	-1 ...3 bar	11208892	11208912	11176583	11208939	76
	-1 ...5 bar	11208893	11208913	11208929	11208940	77
	-1 ...9 bar	11208894	11208914	11176584	11208941	79
	-1 ...15 bar	11208895	11208915	11208930	11208942	81
	-1 ...24 bar	11208896	11208916	11208931	11208943	82
	Price in Euro	<b>395.90</b>	<b>399.00</b>	<b>400.20</b>	<b>403.30</b>	
	0 ...1 bar	11208899	11208917	11208933	11208944	15
	0 ...1.6 bar	11289900	11208918	11208934	11208945	16
	0 ...2.5 bar	11208901	11208919	11208935	11208946	18
	Price in Euro	<b>382.30</b>	<b>385.40</b>	<b>386.60</b>	<b>389.70</b>	
	0 ...4 bar	11208902	11208920	11208936	11208947	19
	0 ...6 bar	11208905	11208922	11176585	11208948	20
	Price in Euro	<b>375.80</b>	<b>378.90</b>	<b>380.10</b>	<b>383.20</b>	
	0 ...10 bar	11208906	11208923	11176586	11208949	22
	0 ...16 bar	11208907	11208924	11176587	11208962	24
	0 ...25 bar	11208909	11208925	11176588	11208963	26
	0 ...40 bar	11208910	11208927	11208937	11208964	27
Material number		▲	▲	▲	▲	

Options (additional costs)			
	Laminated safety glass	1.60	0751
	Friction pointer adjustable	1.60	0679
	ATEX CE II 2 GDc-IM2c (only with option laminated safety glass)	4.90	0078

Certificates (Net-Prices)			
	2.1 certificate	25.90	Q001
	2.2 certificate	35.90	Q002
	3.1 material certificate (incl.)	0.00	Q003
	3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
	3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

Example ordering code	MEX3-D21.B20.DANC02.2H2A.01/0753_Q003	386.60
	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
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# 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 configured products with options, certificates, ...



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

Nominal size	Ø 100 mm				
	Clamp DN38 (ISO 2852) / Diaphragm stainless steel 1.4404 / 1.4435 (AISI 316L)				
Process connection / Diaphragm 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				
Price in Euro	358.50	378.80	379.80	400.10	
Pressure range	-1 ...5 bar	11208965	11208975	11208985	77
	-1 ...9 bar	11208966	11208976	11176589	79
	-1 ...15 bar	11208967	11208977	11208986	81
	-1 ...24 bar	11208968	11208978	11208987	82
Price in Euro	351.90	372.20	373.20	393.50	
Pressure range	0 ...6 bar	11208969	11208979	11176590	20
	0 ...10 bar	11208970	11208981	11176591	22
	0 ...16 bar	11208971	11208982	11176592	24
	0 ...25 bar	11208973	11208983	11176593	26
Price in Euro	372.90	393.20	394.20	414.50	
Pressure range	0 ...40 bar	11208974	11208984	11208988	27
Material number	▲	▲	▲	▲	

Options (additional costs)		/
Laminated safety glass	4.70	0751
Micro adjustable pointer (P > 1.6 bar)	4.40	0678
ATEX CE II 2 GDc-IM2c (only with option laminated safety glass)	4.90	0078
Blow out disc at the back	8.80	0760
Restrictor screw	9.00	0771
Measuring element (free of oil and grease)	17.10	0764
Silicone-free with mark on dial	14.30	0794
Adjustable pointer on dial (only without glycerin filling)	10.30	0051
Adjustable pointer on window	30.90	0053

Certificates (Net-Prices)		
2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate (incl.)	0.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing	47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing	58.80	Q009

**Example ordering code** MEX5-D31.B20.DANC01.2L2A.01/0753\_Q003 373.20  
 MEX5 nominal size 100, bottom connection, Glycerin, 0... 6 bar, with diaphragm seal Clamp DN38  
 Window polycarbonate, 3.1 material certificate

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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 configured 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) DIN case, bajonet
Bourdon tube	Stainless steel 1.4404 (AISI 316L)
Window	Polycarbonate (Makrolon®)
Ambient temperature	-20°C ... 70°C
Filling fluid	Vaseline (FDA)

Nominal size		Ø 100 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		MEX5-D30.B**	MEX5-F30.B**	MEX5-D31.B**	MEX5-F31.B**	
		DANC02.2L2A.01/0753_Q003				** ▼
<b>Price in Euro</b>		<b>409.90</b>	<b>430.20</b>	<b>431.20</b>	<b>451.50</b>	
Pressure range	-1 ...3 bar	11209016	11209029	11176594	11209081	76
	-1 ...5 bar	11209017	11209050	11209062	11209119	77
	-1 ...9 bar	11209018	11209051	11176595	11209130	79
	-1 ...15 bar	11209019	11209052	11209063	11209131	81
	-1 ...24 bar	11209020	11209053	11209064	11209132	82
<b>Price in Euro</b>		<b>428.10</b>	<b>448.40</b>	<b>449.40</b>	<b>469.70</b>	
0 ...1.6 bar	0 ...1.6 bar	11209021	11209054	11209066	11209134	16
	0 ...2.5 bar	11209022	11209055	11209067	11209135	18
<b>Price in Euro</b>		<b>403.30</b>	<b>423.60</b>	<b>424.60</b>	<b>444.90</b>	
0 ...4 bar	0 ...4 bar	11209023	11209056	11209068	11209136	19
	0 ...6 bar	11209024	11209057	11176556	11209137	20
	0 ...10 bar	11209025	11209058	11176596	11209139	22
	0 ...16 bar	11209026	11209059	11176597	11209141	24
	0 ...25 bar	11209027	11209060	11176598	11209142	26
<b>Price in Euro</b>		<b>424.30</b>	<b>444.60</b>	<b>445.60</b>	<b>465.90</b>	
0 ...40 bar	0 ...40 bar	11209028	11209061	11209069	11209143	27
<b>Material number</b>		▲	▲	▲	▲	

Options (additional costs)				/
Laminated safety glass			4.70	0751
Micro adjustable pointer (P > 1.6 bar)			4.40	0678
ATEX CE II 2 GDc-IM2c (only with option laminated safety glass)			4.90	0078
Blow out disc at the back			8.80	0760
Restrictor screw			9.00	0771
Measuring element (free of oil and grease)			17.10	0764
Silicone-free with mark on dial			14.30	0794
Adjustable pointer on dial (only without glycerin filling)			10.30	0051
Adjustable pointer on window			30.90	0053

Certificates (Net-Prices)				
2.1 certificate			25.90	Q001
2.2 certificate			35.90	Q002
3.1 material certificate (incl.)			0.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing			47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing			58.80	Q009

<b>Example ordering code</b>	MEX5-D31.B20.DANC02.2L2A.01/0753_Q003	424.60	◀
MEX5 nominal size 100, bottom connection, Glycerin, 0... 6 bar, with diaphragm seal Clamp DN51			
Window polycarbonate, 3.1 material certificate			

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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 configured 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) DIN case, bajonet
Bourdon tube	Stainless steel 1.4404 (AISI 316L)
Window	Instrument glass
Ambient temperature	-20°C ... 70°C
Filling fluid	Vaseline

Nominal size		Ø 100 mm					
Process connection / Diaphragm		Connection G 1/2 / 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**		
Price in Euro		DT2.2L20.0.230.01				**▼	
Price in Euro		<b>362.30</b>	<b>382.60</b>	<b>383.60</b>	<b>403.90</b>		
Pressure range	-1 ...3 bar	11106016	11209145	11123526	11209172	76	
	-1 ...5 bar	11106017	11209146	11151830	11209173	77	
	-1 ...9 bar	11106018	11209148	11183666	11209174	79	
	-1 ...15 bar	11106019	11209149	11194228	11209175	81	
	-1 ...24 bar	11106030	11209150	11209171	11209176	82	
	Price in Euro		<b>380.50</b>	<b>400.80</b>	<b>401.80</b>	<b>422.10</b>	
	0 ...1 bar	11106031	11209151	11121478	11209177	15	
	0 ...1.6 bar	11106033	11209153	11132842	11209178	16	
	0 ...2.5 bar	11102312	11209154	11125691	11209179	18	
	Price in Euro		<b>355.70</b>	<b>376.00</b>	<b>377.00</b>	<b>397.30</b>	
0 ...4 bar	0 ...4 bar	11106034	11209155	11102938	11209180	19	
	0 ...6 bar	11117804	11209156	11132947	11203625	20	
	0 ...10 bar	11121721	11209157	11102780	11209181	22	
	0 ...16 bar	11106035	11209158	11122646	11209183	24	
	0 ...25 bar	11102265	11209159	11145344	11209184	26	
Price in Euro		<b>376.70</b>	<b>397.00</b>	<b>398.00</b>	<b>418.30</b>		
0 ...40 bar	11106036	11209170	11174446	11209185	27		
Material number		▲	▲	▲	▲		

Options (additional costs)			/
Laminated safety glass		4.70	0751
Window polycarbonate		11.70	0753
Micro adjustable pointer (P > 1.6 bar)		4.40	0678
ATEX CE II 2 GDc-IM2c (only with option laminated safety glass)		4.90	0078
Blow out disc at the back		8.80	0760
Restrictor screw		9.00	0771
Measuring element (free of oil and grease)		17.10	0764
Silicone-free with mark on dial		14.30	0794
Adjustable pointer on dial (only without glycerin filling)		10.30	0051
Adjustable pointer on window		30.90	0053

Certificates (Net-Prices)			
2.1 certificate		25.90	Q001
2.2 certificate		35.90	Q002
3.1 material certificate		54.00	Q003
3.1 calibration certificate - 5 points increasing, 1 point decreasing		47.40	Q008
3.1 calibration certificate EN 837 - 5 points increasing, 5 points decreasing		58.80	Q009

Example ordering code	MEX5-D31.B20.DT2-2L20.0.230.01	377.00
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
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# A solution for every application. Choose Bourdon<sup>®</sup> pressure gauges.

Contact pressure gauges



Diaphragm pressure gauges



Differential pressure gauges



Test 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	40.80	43.00	41.20	126.10
		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	55.10	57.50	57.10	161.30
		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	81.40	114.30	81.40	214.80
		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	166.90	-	-	229.90
		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	80.30	-	-	155.80
		10347584	-	-	10347585

Material number ▶	▲	▲	▲	▲
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Example ordering code	N 05009.0000	55.10
	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
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# 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	33.30	-	78.40	103.60
	10296192	-	10325840	10296193

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



Material	Brass	-	Steel	Stainless steel
Ordering code ►	N 05003.0000	-	-	-
Price in Euro	26.70	-	-	-
	10296189	-	-	-

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



Material	Brass	-	Steel	Stainless steel
Ordering code ►	N 05004.0000	-	-	-
Price in Euro	25.90	-	-	-
	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	42.50	-	-	157.70
	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	-	25.20	-	-
	-	10265944	-	-

## G 1/2 female / union nut



Material	Brass	-	Steel	Stainless steel
Ordering code ►	D 11724.0000	-	-	-
Price in Euro	34.80	-	-	-
	10324554	-	-	-

Material number ►

▲	▲	▲	▲
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Example ordering code	N 05007.0000	42.50
	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
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# 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	-	-	37.60	151.40
		-	-	10296202	10296203

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

	Material	-	-	Steel	Stainless steel
		-	-	N 05013.0002	N 05013.0003
	Price in Euro	-	-	30.60	126.20
		-	-	10296204	10296205

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

	Material	-	-	Steel	Stainless steel
		-	-	N 05014.0000	N 05014.0001
	Price in Euro	-	-	37.50	161.20
		-	-	10325854	10296206

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

	Material	-	-	Steel	Stainless steel
		-	-	N 05014.0002	N 05014.0003
	Price in Euro	-	-	30.60	126.10
		-	-	10296207	10296208

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

	Material	-	-	Steel	Stainless steel
		-	-	J 66867.0001	-
	Price in Euro	-	-	20.00	-
		-	-	10325437	-

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

	Material	-	-	Steel	-
		-	-	J 66868.0001	-
	Price in Euro	-	-	37.60	-
		-	-	10271366	-

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

	Material	-	-	Steel	Stainless steel
		-	-	J 89996.0206	J 89996.0207
	Price in Euro	-	-	30.70	126.20
		-	-	10347220	10347221

Material number ▶	▲	▲	▲	▲
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Example ordering code	N 05013.0003	126.20
Welding end / adjusting nut G 1/2, U type siphons DIN 16282, stainless steel		

Availability	stock item	upon manufacturing	- not available
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# 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	-	-	23.60	66.70
		-	-	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	-	-	24.10	80.60
		-	-	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	0.50	0.50	0.70	0.50
		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	0.90	3.10	3.10	0.60
		10325777	10329829	10310390	10329830

Material number ►	▲	▲	▲	▲
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Example ordering code N 01890.0110 0.50  
 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	25.40	-	25.10	68.60
		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	-	-	5.10	16.90
		-	-	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	7.30	-	8.30	18.20
		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	17.60	-	16.30	27.70
		10310132	-	10354800	10310133

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

	Material	Brass	-	Steel	Stainless steel
	Ordering code ►	-	-	-	J 65902.0243
	Price in Euro	-	-	-	109.00
		-	-	-	10329771

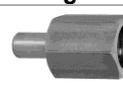
## Connection piece stud G 1/2 to stud G 1/2

	Material	Brass	-	Steel	Stainless steel
	Ordering code ►	J 65887.0121	-	J 65887.0122	J 65887.0123
	Price in Euro	22.20	-	50.30	63.20
		10329763	-	10325361	10325368

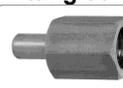
## Connection piece female thread G 1/2 to female thread G 1/2

	Material	Brass	-	Steel	Stainless steel
	Ordering code ►	J 65922.0121	-	J 65922.0122	J 65922.0123
	Price in Euro	38.90	-	o.r.	o.r.
		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	o.r.	-	12.00	31.60
		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	o.r.	-	12.00	31.60
		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	55.70	-	o.r.	170.70
		10263832	-	10324136	10324137

Material number ►	▲	▲	▲	▲
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Availability	stock item	upon manufacturing	- not available
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# 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	-	-	o.r. 10329630	o.r. 10346757

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

	Material	Brass	-	Steel	Stainless steel
	Price in Euro	-	-	A 07250.0010 54.20	A 07250.0011 o.r.
		-	-	10346758	10346759

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

	Material	Brass	-	Steel	Stainless steel
	Price in Euro	-	-	A 07250.0012 o.r.	A 07250.0013 129.50
		-	-	10346760	10329638

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

	Material	Brass	-	Steel	Stainless steel
	Price in Euro	-	-	A 07250.0014 54.20	A 07250.0015 o.r.
		-	-	10329639	10329640

## Support

### Support, color black for wall mount of pressure measuring devices

	Extension	60 mm	100 mm (4 ")	160 mm	-
	Price in Euro	N 05011.0000 19.00	N 05011.0002 30.30	N 05011.0004 26.50	-
		10296198	10296199	10329838	-

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

	Material	Brass	-	Steel	Stainless steel
	Price in Euro	N 05012.0000 10.90	-	N 05012.0001 11.30	N 05012.0002 34.30
		10296201	-	10329841	10310395

Material number ►	▲	▲	▲	▲
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Availability	stock item	upon manufacturing	- not available
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# Bimetallic or gas thermometers – the right product for every applica- tion.



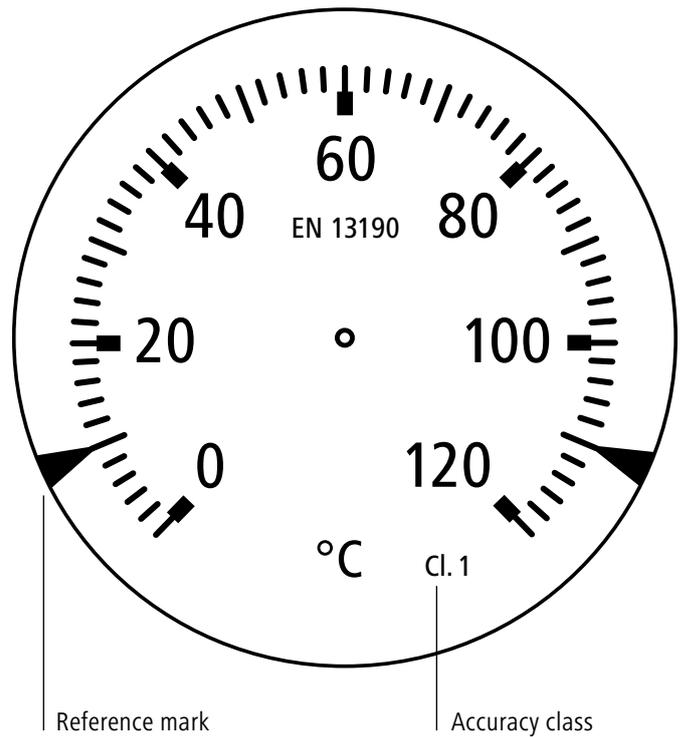
Can be used from  $-200$  to  $+800$  °C, unfilled or with damping fluid, directly mounted or with remote line – our thermometers are reliable and easy to use.

 **Bourdon**  
Baumer Group

# 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:  $\pm 2$  °C



Measuring accuracy of thermometers in accordance with EN 13190

Display range in °C	Measuring range °C	Margins of error $\pm$ °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

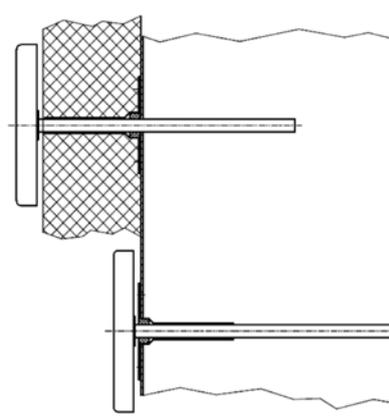
# Installation example for thermometer with insulation.

## Installation in airducts

Installation sleeves type ZTH for installation in airducts

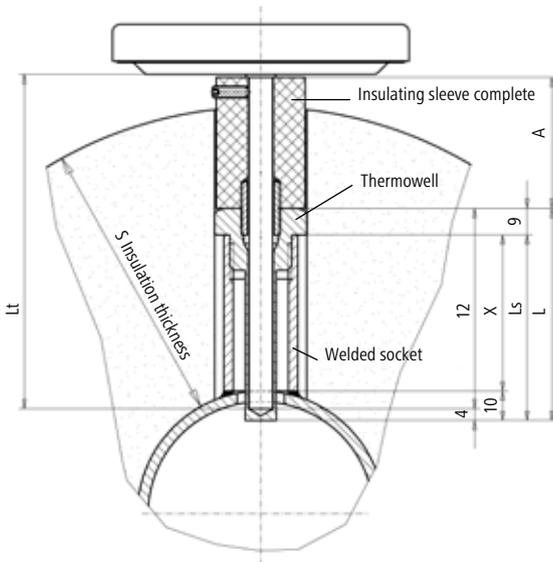
### Recommendation:

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:

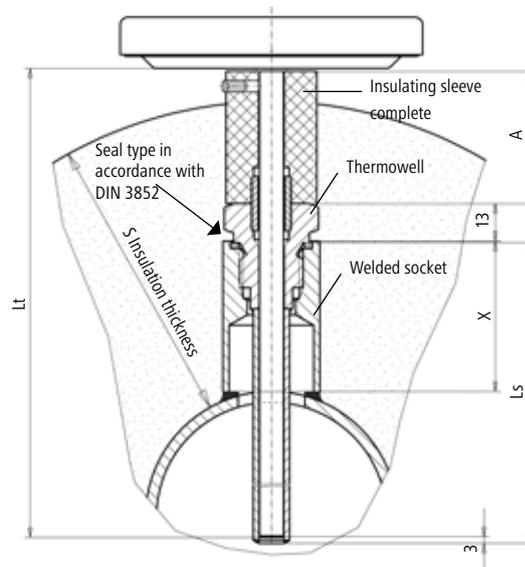


### Version 1:

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				
Immersion tube, material	48 mm	68 mm	88 mm		
Immersion tube length	rear	rear	rear		
Immersion tube outlet					
<b>Ordering code ►</b>	<b>TBH080-212.151.***</b>	<b>TBH080-212.152.***</b>	<b>TBH080-212.153.***</b>	-	<b>***▼</b>
<b>Price in Euro</b>		<b>63.20</b>	<b>63.20</b>		
Temperature range	-10 ...30 °C	10321300	11196176	-	<b>53T</b>
	0 ...40 °C	10260905	10321226	-	<b>10T</b>
<b>Price in Euro</b>	<b>55.60</b>	<b>55.60</b>	<b>55.60</b>		
Temperature range	-20 ...40 °C	10321251	10321301	10321225	<b>52T</b>
	-20 ...60 °C	11185773	10321184	11196178	<b>54T</b>
<b>Price in Euro</b>	<b>43.60</b>	<b>43.60</b>	<b>43.60</b>		
Temperature range	0 ...60 °C	10260903	10321302	10321220	<b>11T</b>
	0 ...80 °C	10321276	10321199	11079710	<b>27T</b>
Temperature range	0 ...100 °C	10321258	10321303	10321221	<b>12T</b>
	0 ...120 °C	10260904	10321304	10321222	<b>20T</b>
<b>Price in Euro</b>	<b>55.60</b>	<b>55.60</b>	<b>55.60</b>		
Temperature range	0 ...250 °C	10321259	10321183	10321229	<b>14T</b>
		▲	▲	▲	▲

### Thermowell for TBH thermometer

Immersion tube length	48 mm	68 mm	88 mm	-
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#### Thermowell with threaded connection \*

		G 1/2 male thread			
		T 09143.0000	T 09143.0001	T 09143.0002	-
	<b>Price in Euro</b>	<b>9.70</b>	<b>10.90</b>	<b>28.50</b>	-
	Brass	10298554	10298555	10326389	-
		T 09143.0005	T 09143.0006	T 09143.0007	-
<b>Price in Euro</b>	<b>29.90</b>	<b>42.60</b>	<b>58.30</b>	-	
Stainless steel	10326421	10298556	10326422	-	

#### Thermowell with welded connection \*

		T 09144.0000	T 09144.0001	T 09144.0002	-
	<b>Price in Euro</b>	<b>23.30</b>	<b>25.30</b>	<b>27.50</b>	-
	Steel	10326459	10326460	10326461	-
		T 09144.0005	T 09144.0006	T 09144.0007	-
<b>Price in Euro</b>	<b>47.20</b>	<b>49.60</b>	<b>54.90</b>	-	
Stainless steel	10298557	10326462	10326500	-	

#### Thermowell with welded connection complet with weld piece

		T 09310.0000	T 09310.0001	T 09310.0002	-
	<b>Price in Euro</b>	<b>32.30</b>	<b>35.90</b>	<b>39.40</b>	-
	Steel	10326753	10326754	10326795	-
		T 09310.0005	T 09310.0006	T 09310.0007	-
<b>Price in Euro</b>	<b>90.50</b>	<b>95.30</b>	<b>112.80</b>	-	
Stainless steel	10326796	10326797	10326798	-	

<b>Material number ►</b>	▲	▲	▲	▲
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\* Welding sockets not included

<b>Example ordering code</b>	<b>TBH080-212.153.12T</b>	<b>43.60</b>
TBH080 Bimetalthermometer nominal size 80, immersion tube outlet center back, tube length 88 mm, material brass		
Temperature range 0...100°C		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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				
	48 mm	68 mm	88 mm		
Immersion tube, material	Brass			-	-
Immersion tube length	rear	rear	rear	-	-
Immersion tube outlet				-	-
<b>Ordering code ►</b>	<b>TBH100-212.151.***</b>	<b>TBH100-212.152.***</b>	<b>TBH100-212.153.***</b>	-	<b>***▼</b>
<b>Price in Euro</b>		<b>63.20</b>	<b>63.20</b>		
Temperature range	-10 ...30 °C	-	10321205	10321272	-
	0 ...40 °C	-	10321228	10321274	-
<b>Price in Euro</b>	<b>55.60</b>	<b>55.60</b>	<b>55.60</b>	-	-
	-20 ...40 °C	10321253	10260910	10321265	-
	-20 ...60 °C	11170915	10260914	10321291	-
<b>Price in Euro</b>	<b>43.60</b>	<b>43.60</b>	<b>43.60</b>	-	-
	0 ...60 °C	10260908	10260911	10321266	-
	0 ...80 °C	10321286	10321215	10321273	-
	0 ...100 °C	10321260	10260912	10321267	-
	0 ...120 °C	10260909	10260913	10260915	-
<b>Price in Euro</b>	<b>55.60</b>	<b>55.60</b>	<b>55.60</b>	-	-
	0 ...250 °C	10321261	10321186	10321271	-
		▲	▲	▲	▲

### Thermowell for TBH thermometer

Immersion tube length	48 mm	68 mm	88 mm	-
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### Thermowell with threaded connection \*

	G 1/2 male thread			
	T 09143.0000	T 09143.0001	T 09143.0002	
<b>Price in Euro</b>	<b>9.70</b>	<b>10.90</b>	<b>28.50</b>	-
Brass	10298554	10298555	10326389	-
<b>Price in Euro</b>	<b>29.90</b>	<b>42.60</b>	<b>58.30</b>	-
Stainless steel	10326421	10298556	10326422	-

### Thermowell with welded connection \*

	T 09144.0000	T 09144.0001	T 09144.0002	
	<b>Price in Euro</b>	<b>23.30</b>	<b>25.30</b>	
Steel	10326459	10326460	10326461	-
<b>Price in Euro</b>	<b>47.20</b>	<b>49.60</b>	<b>54.90</b>	-
Stainless steel	10298557	10326462	10326500	-

### Thermowell with welded connection complet with weld piece

	T 09310.0000	T 09310.0001	T 09310.0002	
	<b>Price in Euro</b>	<b>32.30</b>	<b>35.90</b>	
Steel	10326753	10326754	10326795	-
<b>Price in Euro</b>	<b>90.50</b>	<b>95.30</b>	<b>112.80</b>	-
Stainless steel	10326796	10326797	10326798	-

<b>Material number ►</b>	▲	▲	▲	▲
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\* Welding sockets not included

<b>Example ordering code</b>	<b>TBH100-212.153.12T</b>	<b>43.60</b>
	TBH100 Bimetalthermometer nominal size 100, immersion tube outlet center back, tube length 88 mm, material brass	
	Temperature range 0...100°C	

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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	Ø 80 mm				
	Brass				
Immersion tube, material	100 mm (4 ")	160 mm	250 mm	400 mm	
Immersion tube length	rear	rear	rear	rear	
Immersion tube outlet					
<b>Ordering code ►</b>	<b>TB080-212.152.***</b>	<b>TB080-212.154.***</b>	<b>TB080-212.156.***</b>	<b>TB080-212.157.***</b>	<b>***▼</b>
<b>Price in Euro</b>	<b>51.30</b>	<b>51.30</b>	<b>58.00</b>	<b>67.30</b>	
<b>Temperature range</b>					
-10 30 °C	10320557	11089996	-	-	<b>53T</b>
-20 40 °C	10320505	10320563	10320611	10320516	<b>52T</b>
-20 ...60 °C	10320558	10320593	11196040	11039874	<b>54T</b>
<b>Price in Euro</b>	<b>46.30</b>	<b>46.30</b>	<b>53.00</b>	<b>62.30</b>	
0 ...40 °C	10320521	10320603	-	-	<b>10T</b>
0 ...60 °C	10320506	10320564	10320612	10320517	<b>11T</b>
0 ...80 °C	10320522	10320572	11053378	10318879	<b>27T</b>
0 ...100 °C	10320507	10320565	10320623	10320518	<b>12T</b>
0 ...120 °C	10320508	10260845	10320624	10320525	<b>20T</b>
0 ...160 °C	10320509	10320570	10320625	10320526	<b>13T</b>
<b>Price in Euro</b>	<b>51.30</b>	<b>51.30</b>	<b>58.00</b>	<b>67.30</b>	
0 ...200 °C	10320511	11008697	11196019	11176386	<b>22T</b>
0 ...250 °C	10320510	10320571	10320626	10320527	<b>14T</b>
<b>Material number ►</b>	▲	▲	▲	▲	

### Thermowell for TB080 thermometer

Immersion tube length	100 mm (4 ")	160 mm	250 mm	400 mm
<b>Thermowell with fixing screw</b>	<b>G 1/2</b>			
	<b>T 09143.0101</b>	<b>T 09143.0102</b>	-	-
<b>Price in Euro</b>	<b>14.90</b>	<b>14.90</b>	-	-
Brass	10347699	10347700	-	-

### Thermowell with threaded connection with sliding connection

	<b>G 1/2 male thread</b>			
	<b>T 08410.0101</b>	<b>T 08410.0102</b>	<b>T 08410.0103</b>	<b>T 08410.0104</b>
<b>Price in Euro</b>	<b>24.50</b>	<b>24.50</b>	<b>42.00</b>	<b>57.70</b>
Brass	10298534	10330164	10326329	10326330
<b>Price in Euro</b>	<b>T 08410.0201</b>	<b>T 08410.0202</b>	<b>T 08410.0203</b>	<b>T 08410.0204</b>
Steel	<b>27.60</b>	<b>27.60</b>	<b>46.20</b>	-
	10330166	10326376	10326377	-
<b>Price in Euro</b>	<b>T 08410.0301</b>	<b>T 08410.0302</b>	<b>T 08410.0303</b>	<b>T 08410.0304</b>
Stainless steel 1.4404 / 1.4571	<b>72.00</b>	<b>72.00</b>	<b>82.40</b>	<b>99.10</b>
	10298535	10298536	10326450	10298537

### Thermowell with welded connection with sliding connection

	<b>T 08416.0101</b>	<b>T 08416.0102</b>	<b>T 08416.0103</b>	<b>T 08416.0104</b>
<b>Price in Euro</b>	<b>25.40</b>	<b>31.10</b>	<b>45.50</b>	<b>127.90</b>
Steel	10330190	10326602	10330191	10326604
<b>Price in Euro</b>	<b>T 08416.0201</b>	<b>T 08416.0202</b>	<b>T 08416.0203</b>	<b>T 08416.0204</b>
Stainless steel 1.4404 / 1.4571	<b>71.30</b>	<b>81.70</b>	<b>98.20</b>	<b>151.80</b>
	10326637	10298538	10326638	10326639

<b>Material number ►</b>	▲	▲	▲	▲
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Thermowells and accessories see page 67

<b>Example ordering code</b>	<b>TB080-212.156.20T</b>	<b>53.00</b>	◀
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			

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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					
	100 mm (4 ")	160 mm	250 mm	400 mm		
Immersion tube, material						
Immersion tube length						
Immersion tube outlet	rear	rear	rear	rear		
<b>Ordering code ►</b>	<b>TB100-212.152.***</b>	<b>TB100-212.154.***</b>	<b>TB100-212.156.***</b>	<b>TB100-212.157.***</b>		
<b>Price in Euro</b>	<b>51.30</b>	<b>51.30</b>	<b>58.00</b>	<b>67.30</b>		
Temperature range	-10 30 °C	10320933	10320935	-	53T	
	-20 40 °C	10320718	10320810	10320708	52T	
	-20 ...60 °C	10320907	10320800	10260866	54T	
	-30 ...30 °C	10320716	10320808	10320697	61T	
	-30 ...70 °C	10320717	10320809	10345731	51T	
	<b>Price in Euro</b>	<b>46.30</b>	<b>46.30</b>	<b>53.00</b>	<b>62.30</b>	
	0 ...40 °C	10320847	10320848	-	10T	
	0 ...60 °C	10320739	10320811	10260852	11T	
	0 ...80 °C	10320949	10320936	10320824	27T	
	0 ...100 °C	10320740	10320812	10260853	12T	
	0 ...120 °C	10320741	10260851	10320709	20T	
	0 ...160 °C	10320742	10320655	10320719	13T	
<b>Price in Euro</b>	<b>51.30</b>	<b>51.30</b>	<b>58.00</b>	<b>67.30</b>		
0 ...200 °C	10320891	10320839	10320857	10320690	22T	
0 ...250 °C	10320743	10320656	10320720	10320791	14T	
<b>Material number ►</b>	▲	▲	▲	▲		

### Thermowell for TB100 thermometer

Immersion tube length	100 mm (4 ")	160 mm	250 mm	400 mm
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#### Thermowell with fixing screw

Ordering code ►	G 1/2 male thread			
	T 09143.0101	T 09143.0102	-	-
Price in Euro	14.90	14.90	-	-
Brass	10347699	10347700	-	-

#### Thermowell with threaded connection with sliding connection

Price in Euro	G 1/2 male thread			
	T 08410.0101	T 08410.0102	T 08410.0103	T 08410.0104
Brass	24.50	24.50	42.00	57.70
	10298534	10330164	10326329	10326330
Price in Euro	27.60	27.60	46.20	-
Steel	10330166	10326376	10326377	-
Price in Euro	72.00	72.00	82.40	99.10
Stainless steel 1.4404 / 1.4571	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	25.40	31.10	45.50
	10330190	10326602	10330191	10326604
Price in Euro	71.30	81.70	98.20	151.80
Stainless steel 1.4404 / 1.4571	10326637	10298538	10326638	10326639

<b>Material number ►</b>	▲	▲	▲	▲
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Thermowells and accessories see page 67

<b>Example ordering code</b>	<b>TB100-212.156.20T</b>	<b>53.00</b>
TB100 Bimetalthermometer nominal size 100, immersion tube outlet center back, tube length 250 mm, material brass		
Immersion tube diameter 8 mm, temperature range 0...120°C		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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			
	Brass			
Immersion tube, material	80 mm	100 mm (4 ")		
Immersion tube length	rear	rear		
Immersion tube outlet				
<b>Ordering code</b> ►	TBH080-212.150.***	TBH080-212.150.***	-	***▼
<b>Price in Euro</b>	78.90	78.90	-	-
<b>Temperature range</b>	-20 ...40 °C	11076756	10321280	52T
<b>Material number</b> ►	▲	▲	▲	▲

Nominal size	Ø 100 mm			
	Brass			
Immersion tube, material	80 mm	100 mm (4 ")		
Immersion tube length	rear	rear		
Immersion tube outlet				
<b>Ordering code</b> ►	TBH100-212.150.***	TBH100-212.150.***	-	***▼
<b>Price in Euro</b>	78.90	78.90	-	-
<b>Temperature range</b>	-20 ...40 °C	11047415	10321285	52T
<b>Material number</b> ►	▲	▲	▲	▲

### Thermowell for TBH thermometer

Immersion tube length	80 mm	100 mm (4 ")		
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#### Thermowell with threaded connection \*

	G 1/2 male thread			
	80 mm	100 mm (4 ")		
	T 09143.5003	T 09143.5001	-	-
<b>Price in Euro</b>	12.00	14.60	-	-
Brass	10328857	10326423	-	-

	T 09143.5004	T 09143.5002	-	-
<b>Price in Euro</b>	56.50	63.50	-	-
Stainless steel	11053278	10326424	-	-

#### Thermowell with welded connection \*

	80 mm	100 mm (4 ")		
	T 09178.0001	T 09178.0005	-	-
<b>Price in Euro</b>	17.10	69.20	-	-
Steel	10326610	10326612	-	-

	T 09178.0000	T 09178.0006	-	-
<b>Price in Euro</b>	23.20	38.00	-	-
Stainless steel	10326609	10326613	-	-

#### Insulating sleeve, material PVC, Length

	25 mm			
	80 mm	100 mm (4 ")		
	T 09362.0003	-	-	-
<b>Price in Euro</b>	26.40	-	-	-
	10326708	-	-	-

<b>Material number</b> ►	▲	▲	▲	▲
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<b>Example ordering code</b>	TBH080-212.150.52T	78.90	◀
Bimetalthermometer nominal size 80, connection center back, tube length 100 mm, material brass			
Temperature range -20...40°C			

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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	Sensor length	55 mm	75 mm	95 mm	115 mm	
Immersion tube outlet		rear	rear	rear	rear	
<b>Ordering code</b> ►		<b>TBHA080-212.161.***</b>	<b>TBHA080-212.162.***</b>	<b>TBHA080-212.163.***</b>	<b>TBHA080-212.164.***</b>	<b>***▼</b>
Temperature range	Price in Euro	79.60	79.60	88.60	94.60	
	-20 40 °C	10321443	10260921	11124709	10321335	<b>52T</b>
	Price in Euro	70.60	70.60	79.60	85.60	
	0 ...60 °C	10260917	10260919	10321323	11196228	<b>11T</b>
	0 ...80 °C	10321424	10321311	10321324	11038944	<b>27T</b>
	0 ...100 °C	10260918	10321313	10321331	11084157	<b>12T</b>
	0 ...120 °C	10321425	10260920	10321325	11116563	<b>20T</b>
0 ...160 °C	10321442	10321320	11196224	11196231	<b>13T</b>	
<b>Material number</b> ►		▲	▲	▲	▲	

Nominal size		Ø 100 mm				
		Stainless steel 1.4571 (316ti)				
Immersion tube material	Sensor length	55 mm	75 mm	95 mm	115 mm	
Immersion tube outlet		rear	rear	rear	rear	
<b>Ordering code</b> ►		<b>TBHA100-212.161.***</b>	<b>TBHA100-212.162.***</b>	<b>TBHA100-212.163.***</b>	<b>TBHA100-212.164.***</b>	<b>***▼</b>
Temperature range	Price in Euro	79.60	79.60	88.60	94.60	
	-20 40 °C	10321344	10321387	10321431	10321446	<b>52T</b>
	Price in Euro	70.60	70.60	79.60	85.60	
	0 ...60 °C	10260922	10321374	10321423	10260924	<b>11T</b>
	0 ...80 °C	10321336	10321375	10321427	11103873	<b>27T</b>
	0 ...100 °C	10321342	10321385	10321429	11010182	<b>12T</b>
	0 ...120 °C	10321337	10260923	10321428	10321440	<b>20T</b>
0 ...160 °C	10321343	10321386	10321430	10321445	<b>13T</b>	
<b>Material number</b> ►		▲	▲	▲	▲	

### 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	A 08476.0001	-	-
Price in Euro	4.20	4.60	-	-
	10263864	10263865	-	-

### Spare parts

Mounting socket for isolation thickness	30 - 50 mm	50 - 70 mm	70 - 90 mm	90 - 110 mm
	T 09302.0000	T 09302.0001	T 09302.0002	T 09302.0003
Price in Euro	14.30	16.40	24.00	29.70
	10298558	10298559	10326701	10326702

<b>Material number</b> ►	▲	▲	▲	▲
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<b>Example ordering code</b>	TBHA080-212.162.12T	70.60	◀
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			

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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

<b>Nominal size</b>	<b>Ø 100 mm</b>			
<b>Immersion tube, material</b>	<b>Brass</b>			
<b>Immersion tube length</b>	<b>165 mm</b>			
<b>Immersion tube outlet</b>	rear			



<b>Ordering code</b> ►	TBL100-232.151.***				***▼			
<b>Price in Euro</b>	45.00							
<b>Temperature range</b>	-30	50	°C	10328450	-	-	-	70T
	-20	...60	°C	10321130	-	-	-	54T
	0	...80	°C	10260887	-	-	-	27T
	0	...100	°C	10318405	-	-	-	12T
<b>Material number</b> ►	▲				▲	▲	▲	

**Example ordering code** TBL100-232.151.27T 45.00 ◀  
 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

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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	Ø 80 mm				***▼	
	Stainless steel 1.4571 (316Ti)					
	100 mm (4 ")	160 mm	250 mm	400 mm		
Immersion tube, material						
Immersion tube length	rear	rear	rear	rear		
Immersion tube outlet						
<b>Ordering code ►</b>	<b>TB080-212.162.***</b>	<b>TB080-212.164.***</b>	<b>TB080-212.166.***</b>	<b>TB080-212.167.***</b>		
<b>Price in Euro</b>	<b>76.30</b>	<b>86.90</b>	<b>88.30</b>	<b>106.60</b>		
Temperature range	-10 30 °C	11089997	11196044	-	53T	
	-20 40 °C	10320523	11161215	11196062	11196075	52T
	-20 ...60 °C	11099262	11166645	11111374	11196077	54T
	-30 ...30 °C	11115105	11196045	11196063	11196078	61T
	-30 ...70 °C	11196042	10320577	11196060	11196074	51T
	<b>Price in Euro</b>	<b>71.30</b>	<b>81.90</b>	<b>83.30</b>	<b>101.60</b>	
	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
	<b>Price in Euro</b>	<b>76.30</b>	<b>86.90</b>	<b>88.30</b>	<b>106.60</b>	
	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	
<b>Material number ►</b>	▲	▲	▲	▲		

### Thermowell for TB080 thermometer

Immersion tube length	100 mm (4 ")	160 mm	250 mm	400 mm
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Thermowell with threaded connection with sliding connection	G 1/2 male thread			
	T 08410.0301	T 08410.0302	T 08410.0303	T 08410.0304
	<b>Price in Euro</b>	<b>72.00</b>	<b>72.00</b>	<b>82.40</b>
Stainless steel 1.4404 / 1.4571	10298535	10298536	10326450	10298537



Thermowell with welded connection with sliding connection	T 08416.0201	T 08416.0202	T 08416.0203	T 08416.0204	
	<b>Price in Euro</b>	<b>71.30</b>	<b>81.70</b>	<b>98.20</b>	<b>151.80</b>
	Stainless steel 1.4404 / 1.4571	10326637	10298538	10326638	10326639



<b>Material number ►</b>	▲	▲	▲	▲
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Thermowells and accessories see page 67

<b>Example ordering code</b>	<b>TB080-212.166.20T</b>	<b>83.30</b>	◀
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			

<b>Availability</b>	stock item	upon manufacturing	- not available
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# 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		Ø 100 mm				
		Stainless steel 1.4571 (316Ti)				
Immersion tube, material	Immersion tube length	100 mm (4 ")	160 mm	250 mm	400 mm	
Immersion tube outlet		rear	rear	rear	rear	
<b>Ordering code ►</b>		<b>TB100-212.162.***</b>	<b>TB100-212.164.***</b>	<b>TB100-212.166.***</b>	<b>TB100-212.167.***</b>	<b>***▼</b>
<b>Price in Euro</b>		<b>76.30</b>	<b>86.90</b>	<b>88.30</b>	<b>106.60</b>	
<b>Temperature range</b>	-10 30 °C	10320761	10320763	-	-	<b>53T</b>
	-20 40 °C	10320728	10320644	10320721	10320802	<b>52T</b>
	-20 ...60 °C	10320762	10320822	10320639	11007985	<b>54T</b>
	-30 ...30 °C	10320726	10320657	11093443	11127604	<b>61T</b>
	-30 ...70 °C	10320727	10320658	10260854	10320801	<b>51T</b>
	<b>Price in Euro</b>	<b>71.30</b>	<b>81.90</b>	<b>83.30</b>	<b>101.60</b>	
	0 ...40 °C	10320950	10320929	-	-	<b>10T</b>
	0 ...60 °C	10260848	10320645	10260855	10320803	<b>11T</b>
	0 ...80 °C	10320851	10320686	10320747	10320818	<b>27T</b>
	0 ...100 °C	10260849	10320646	10320729	10320804	<b>12T</b>
0 ...120 °C	10260850	10320647	10320730	10320813	<b>20T</b>	
0 ...160 °C	10320757	10320648	10320731	10320814	<b>13T</b>	
<b>Price in Euro</b>	<b>76.30</b>	<b>86.90</b>	<b>88.30</b>	<b>106.60</b>		
0 ...200 °C	10320999	10320770	10320771	10320710	<b>22T</b>	
0 ...250 °C	10320758	10320662	10320732	10320815	<b>14T</b>	
0 ...400 °C	10320759	10320663	10320745	10320816	<b>15T</b>	
100 ...500 °C	10320760	10320664	10320746	10320817	<b>30T</b>	
<b>Material number ►</b>		▲	▲	▲	▲	

### Thermowell for TB100 thermometer

Immersion tube length	100 mm (4 ")	160 mm	250 mm	400 mm
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		G 1/2 male thread			
		T 08410.0301	T 08410.0302	T 08410.0303	T 08410.0304
	<b>Price in Euro</b>	<b>72.00</b>	<b>72.00</b>	<b>82.40</b>	<b>99.10</b>
	Stainless steel 1.4404 / 1.4571	10298535	10298536	10326450	10298537

		-			
		T 08416.0201	T 08416.0202	T 08416.0203	T 08416.0204
	<b>Price in Euro</b>	<b>71.30</b>	<b>81.70</b>	<b>98.20</b>	<b>151.80</b>
	Stainless steel 1.4404 / 1.4571	10326637	10298538	10326638	10326639

<b>Material number ►</b>	▲	▲	▲	▲
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Thermowells and accessories see page 67

<b>Example ordering code</b>	<b>TB100-212.164.10T</b>	<b>81.90</b>
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		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# TBI

## Bimetalthermometer, stainless steel, immersion tube center back



► Please use exclusively the material number for standard products  
 ► Please use the ordering code for configured 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	Ø 100 mm				
	Stainless steel 1.4571 (316Ti)				
Immersion tube, material	rear	rear	rear	rear	
Connection					
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.***	**▼
<b>Price in Euro</b>	<b>127.20</b>	<b>132.20</b>	<b>141.20</b>	<b>153.80</b>	
Temperature range					
-10 30 °C	11126074	10327178	-	-	53T
-20 40 °C	10327451	11161734	10327206	10326968	52T
-20 ...60 °C	10327450	10327297	10327142	10318101	54T
-20 ...100 °C	10327065	10327410	11195778	11165443	84T
-30 ...30 °C	-	-	-	-	61T
-30 ...70 °C	10327409	10327028	11195776	10326993	51T
-30 ...170 °C	10327208	10326996	11175083	11154767	55T
-70 ...50 °C	10327094	10326974	11161045	10327040	68T
<b>Price in Euro</b>	<b>127.20</b>	<b>132.20</b>	<b>141.20</b>	<b>153.80</b>	
0 ...40 °C	10327356	10327030	-	-	10T
0 ...60 °C	10327177	11161797	11186747	10327035	11T
0 ...80 °C	11134786	11161751	11195775	10327457	27T
0 ...100 °C	11161737	11161735	10326970	10327209	12T
0 ...120 °C	11161738	11161745	11161739	10327298	20T
0 ...160 °C	11121729	10326967	10327251	10327253	13T
<b>Price in Euro</b>	<b>127.20</b>	<b>132.20</b>	<b>141.20</b>	<b>153.80</b>	
0 ...200 °C	10327262	10326991	10327212	11195882	22T
0 ...250 °C	11161743	11161732	10327295	11195779	14T
0 ...400 °C	10327031	10326924	10326990	11195880	15T
0 ...500 °C	11195771	10327087	11167652	11195883	25T
0 ...600 °C	11196110	10327029	11195774	11195881	16T
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)		28.00	TBI130-***.***.***
Ø 160 mm (not for -10...30°C and 0...40°C)		80.20	TBI160-***.***.***

Additional price for integrated process connection			
G 1/2 male thread, sliding		19.60	TBI***_5*.***.***
1/2 NPT male thread, sliding		19.60	TBI***_6*.***.***
M20 x 1.5 male thread, sliding		64.90	TBI***_2*.***.***
Others on request			

Mehrpreise für andere Tauchrohrdurchmesser			
Ø 6 mm		-9.30	TBI***_4*.***.***

Options (additional costs)			
ATEX II 2 GDc (only with option laminated safety glass)		2.30	0078
Case and bezel ring stainless steel 1.4404 (AISI 316L) (only Ø 100 mm and Ø 130 mm)		40.30	0110
Pointer axis with dampening grease		14.00	0581
Laminated safety glass (only Ø 80 mm and Ø 100 mm, others on request)		9.70	0751
Polycarbonat (only for Ø 80 mm and Ø 100 mm, others upon request)		12.00	0753
Silicone-free with mark on dial		21.60	0794
Red mark at ...		21.00	9700
Customer logo		23.60	9710
Technical inscription		23.60	9711

Certificates (Net-Prices)			
2.1 certificate		25.90	Q001
2.2 certificate		35.90	Q002
3.1 material certificate		54.00	Q003
3.1 calibration certificate - 3 points increasing		46.30	Q006
3.1 calibration certificate - 5 points increasing		72.70	Q007

Thermowells and accessories see page 67

Example ordering code	TBI100-212.162.20T/0751_Q006	183.20	◀
	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
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# TBI

## Bimetalthermometer, stainless steel, immersion tube radial bottom



- ▶ Please use exclusively the material number for standard products
- ▶ Please use the ordering code for configured 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.***
<b>Price in Euro</b>	<b>187.80</b>	<b>192.80</b>	<b>201.80</b>	<b>214.40</b>
Temperature range				
-20 40 °C	11169029	10327421	10327155	11196088
-20 ...60 °C	11195981	11196032	11196055	11196100
-20 ..100 °C	10327154	11196036	11196059	11196108
-30 ...30 °C	-	-	-	-
-30 ...70 °C	10327315	10327221	11196054	11196086
-30 ..170 °C	11195983	11196033	11196056	11196103
-70 ...50 °C	11195986	11178440	11196058	11196106
<b>Price in Euro</b>	<b>187.80</b>	<b>192.80</b>	<b>201.80</b>	<b>214.40</b>
0 ...60 °C	11161765	10326891	10327095	10327007
0 ...80 °C	10326892	10327153	11196053	11196084
0 ..100 °C	11195958	10327418	11196037	10327044
0 .120 °C	11161769	10327419	11188745	10327219
0 .160 °C	10327316	10327269	10327129	11196080
<b>Price in Euro</b>	<b>187.80</b>	<b>192.80</b>	<b>201.80</b>	<b>214.40</b>
0 ..200 °C	11161790	10327271	10327194	11196082
0 ..250 °C	10327273	10327420	10326893	10327077
0 ..400 °C	11195963	10326935	10327011	10326902
0 ..500 °C	11195969	11196031	11196051	11196083
0 ..600 °C	11195966	11196000	11196039	11196081
Material number ▶	▲	▲	▲	▲

Additional price for other nominal sizes (NS)	
Ø 80 mm	0.00 TBI080-*** **
Ø 130 mm	28.00 TBI130-*** **
Ø 160 mm	80.20 TBI160-*** **

Additional price for integrated process connection	
G 1/2 male thread, sliding	19.60 TBI***-5* **
1/2 NPT male thread, sliding	19.60 TBI***-6* **
M20 x 1.5 male thread, sliding	64.90 TBI***-2* **
Others on request	

Mehrpreise für andere Tauchrohrdurchmesser	
Ø 6 mm	-9.30 TBI***-***4* **

Options (additional costs)	
ATEX II 2 GDc (only with option laminated safety glass)	2.30 0078
Case and bezel ring stainless steel 1.4404 (AISI 316L) (only Ø 100 mm and Ø 130 mm)	40.30 0110
Pointer axis with dampening grease	14.00 0581
Laminated safety glass (only Ø 80 mm and Ø 100 mm, others on request)	9.70 0751
Silicone-free with mark on dial	21.60 0794
Red mark at ...	21.00 9700
Customer logo	23.60 9710
Technical inscription	23.60 9711

Certificates (Net-Prices)	
2.1 certificate	25.90 Q001
2.2 certificate	35.90 Q002
3.1 material certificate	54.00 Q003
3.1 calibration certificate - 3 points increasing	46.30 Q006
3.1 calibration certificate - 5 points increasing	72.70 Q007

Thermowells and accessories see page 67

Example ordering code	TBI100-211.162.20T/0751_Q006	243.80
	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
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# TBI

## Bimetalthermometer, stainless steel, immersion tube every angle



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

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

Nominal size	Ø 100 mm				
	Stainless steel 1.4571 (316Ti)				
Immersion tube, material	Every angle	Every angle	Every angle	Every angle	
Connection					
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.***	**▼
<b>Price in Euro</b>	<b>208.80</b>	<b>213.80</b>	<b>222.80</b>	<b>235.40</b>	
<b>Temperature range</b>					
-20 ... 40 °C	11118161	11195928	11195949	11196014	52T
-20 ... 60 °C	11195888	11195929	11195970	11196015	54T
-20 ... 100 °C	11118160	11156250	11195977	11196018	84T
-30 ... 30 °C	-	-	-	-	61T
-30 ... 70 °C	10327568	11195927	11195947	11196013	51T
-30 ... 170 °C	11195920	11195940	11195972	10327567	55T
-70 ... 50 °C	11195922	11172084	11195973	11196017	68T
<b>Price in Euro</b>	<b>208.80</b>	<b>213.80</b>	<b>222.80</b>	<b>235.40</b>	
0 ... 60 °C	10299677	10327527	10327999	11195979	11T
0 ... 80 °C	11195887	10327197	11195946	11196012	27T
0 ... 100 °C	10327890	10327690	11195942	11195991	12T
0 ... 120 °C	10328027	11195924	10327649	11195999	20T
0 ... 160 °C	10327615	10327997	10327652	11195993	13T
<b>Price in Euro</b>	<b>208.80</b>	<b>213.80</b>	<b>222.80</b>	<b>235.40</b>	
0 ... 200 °C	11195885	11195925	11195944	10327803	22T
0 ... 250 °C	10327651	10327991	10327653	11195995	14T
0 ... 400 °C	10327619	10327231	10327654	11195996	15T
0 ... 500 °C	11195886	11195926	11195945	11196011	25T
0 ... 600 °C	11162872	11195923	11195943	11195997	16T
<b>Material number ▶</b>	▲	▲	▲	▲	

Additional price for other nominal sizes (NS)		
Ø 80 mm	0.00	TBI080-***.***.***
Ø 130 mm	28.00	TBI130-***.***.***
Ø 160 mm	80.20	TBI160-***.***.***

Additional price for integrated process connection		
G 1/2 male thread, sliding	19.60	TBI***-5*.***.***
1/2 NPT male thread, sliding	19.60	TBI***-6*.***.***
M20 x 1.5 male thread, sliding	64.90	TBI***-2*.***.***
G 1/2 male thread, fix	48.60	TBI***-C*.***.***
1/2 NPT male thread, fixed	48.60	TBI***-Q*.***.***
Others on request		

Mehrpreise für andere Tauchrohrdurchmesser		
Ø 6 mm	-9.30	TBI***-***.4*.***

Options (additional costs)		
ATEX II 2 GDc (only with option laminated safety glass)	2.30	0078
Case and bezel ring stainless steel 1.4404 (AISI 316L) (only Ø 100 mm and Ø 130 mm)	40.30	0110
Pointer axis with dampening grease	14.00	0581
Laminated safety glass (only Ø 80 mm and Ø 100 mm, others on request)	9.70	0751
Polycarbonat (only for Ø 80 mm and Ø 100 mm, others upon request)	12.00	0753
Silicone-free with mark on dial	21.60	0794
Red mark at ...	21.00	9700
Customer logo	23.60	9710
Technical inscription	23.60	9711

Certificates (Net-Prices)		
2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 3 points increasing	46.30	Q006
3.1 calibration certificate - 5 points increasing	72.70	Q007

Thermowells and accessories see page 67

<b>Example ordering code</b>	TBI100-214.162.20T/0751_Q006	264.80	◀
	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		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# TSS

## Gas filled thermometer, stainless steel, direct mounting



► Please use exclusively the material number for standard products  
 ► Please use the ordering code for configured 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)				
Immersion tube, material	bottom	bottom	bottom	bottom	
Connection					
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	522.70	546.10	568.40	592.20	
Temperature range					
-200 ...50 °C					69T
-120 ...40 °C					77T
-100 ...50 °C					76T
-80 ...40 °C					74T
-60 ...40 °C					50T
Price in Euro	405.30	428.70	451.00	474.80	
-40 ...40 °C					65T
-30 ...170 °C					55T
-30 ...70 °C					51T
-30 ...30 °C					61T
-20 ...100 °C					84T
-20 ...60 °C					27T
-20 ...40 °C					12T
Price in Euro	326.90	350.30	372.60	396.40	
0 ...60 °C					11T
0 ...80 °C					27T
0 ...100 °C					12T
0 ...120 °C					20T
0 ...160 °C					13T
0 ...200 °C					22T
0 ...250 °C					14T
0 ...300 °C					23T
0 ...400 °C					15T
0 ...500 °C					25T
0 ...600 °C					16T
Price in Euro	421.10	444.50	466.80	490.60	
0 ...800 °C					82T
Material number ►	▲	▲	▲	▲	

Additional price for other nominal sizes (NS)		
Ø 63 mm	-31.80	TSS063.***.***.***
Ø 80 mm	-14.60	TSS080.***.***.***
Ø 160 mm	60.50	TSS160.***.***.***

Additional price for other immersion tube versions		
Immersion tube center back	0.00	TSS***.12.***.***
Immersion tube center back, every angle	241.60	TSS***.42.***.***
Immersion tube bottom, every angle	241.60	TSS***.41.***.***

Options (additional costs)		
Sliding connection G 1/2	28.50	738C
Sliding connection 1/2 NPT	28.50	738J
Sliding connection M18 x 1.5	146.20	738P
Case with silicone filling (Ø 100 mm, others on request)	49.30	0776
Technical inscription	26.70	9711

Certificates (Net-Prices)		
2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 3 points increasing	46.30	Q006
3.1 calibration certificate - 5 points increasing	72.70	Q007

Thermowells and accessories see page 67

Example ordering code	TSS100-211.162.20T/738C_Q006	401.70	◀
	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
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# TSF

## Gas filled thermometer, stainless steel, with capillary



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

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

Nominal size	Ø 100 mm			
	Stainless steel 1.4541 (321)			
Immersion tube, material	bottom	bottom	bottom	bottom
Capillary outlet				
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
<b>Price in Euro</b>	<b>622.80</b>	<b>646.20</b>	<b>668.50</b>	<b>692.30</b>
<b>Temperature range</b>				
-200 ...50 °C				69T
-120 ...40 °C				77T
-100 ...50 °C				76T
-80 ...40 °C				74T
-60 ...40 °C				50T
<b>Price in Euro</b>	<b>505.40</b>	<b>528.80</b>	<b>551.10</b>	<b>574.90</b>
-40 ...40 °C				65T
-30 ...170 °C				55T
-30 ...70 °C				51T
-30 ...30 °C				61T
-20 ...100 °C				84T
-20 ...60 °C				27T
-20 ...40 °C				12T
<b>Price in Euro</b>	<b>427.00</b>	<b>450.40</b>	<b>472.70</b>	<b>496.50</b>
0 ...60 °C				11T
0 ...80 °C				27T
0 ...100 °C				12T
0 ...120 °C				20T
0 ...160 °C				13T
0 ...200 °C				22T
0 ...250 °C				14T
0 ...300 °C				23T
0 ...400 °C				15T
0 ...500 °C				25T
0 ...600 °C				16T
<b>Price in Euro</b>	<b>521.20</b>	<b>544.60</b>	<b>566.90</b>	<b>590.70</b>
0 ...800 °C				82T
<b>Material number ►</b>	▲	▲	▲	▲

Additional price for other nominal sizes (NS)		
Ø 63 mm	-51.70	TSF063-***.***.***
Ø 80 mm	-22.90	TSF080-***.***.***
Ø 160 mm	68.70	TSF160-***.***.***

Additional price for other case versions		
Capillary outlet bottom with support for wall mounting	31.50	TSF***-*61.***.***
Capillary outlet bottom with front flange for panel mounting	5.90	TSF***-*21.***.***
Capillary outlet center back with front flange for panel mounting	5.90	TSF***-*22.***.***
Capillary outlet bottom with rear flange for wall mounting	3.30	TSF***-*31.***.***
Capillary outlet center back with rear flange for wall mounting	3.30	TSF***-*32.***.***

Options (additional costs)		
Sliding connection G 1/2	28.50	738C
Sliding connection 1/2 NPT	28.50	738J
Sliding connection M18 x 1.5	146.20	738P
Case with silicone filling (Ø 100 mm, others on request)	49.30	0776
Technical inscription	26.70	9711

Certificates (Net-Prices)		
2.1 certificate	25.90	Q001
2.2 certificate	35.90	Q002
3.1 material certificate	54.00	Q003
3.1 calibration certificate - 3 points increasing	46.30	Q006
3.1 calibration certificate - 5 points increasing	72.70	Q007

Thermowells and accessories see page 67

<b>Example ordering code</b>	TSF100-211.162.20T.20/738C_Q006	501.80	◀
	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		

<b>Availability</b>	stock item	upon manufacturing	- not available
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# Thermowell for TBI080 / TBI100

## Thermometer with sliding connection



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

<b>Material</b>	Stainless steel 1.4404 / 1.4571
<b>Immersion tube length</b>	100 mm, 160 mm, 250 mm, 400 mm
<b>Immersion tube diameter</b>	Ø 6 mm

<b>Installed length (stem diameter 6 mm)</b>	<b>100 mm (4 ")</b>	<b>160 mm</b>	<b>250 mm</b>	<b>400 mm</b>
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Thermowell with threaded connection		G 1/2 male thread			
<b>Ordering code</b> ►		T 09346.0301	T 09346.0302	T 09346.0303	T 09346.0304
<b>Price in Euro</b>		85.10	98.00	108.40	124.30
	Stainless steel 1.4404 / 1.4571	10298560	10326589	10326590	10298561

Thermowell with threaded connection		3/4 NPT male thread			
<b>Ordering code</b> ►		T 09346.0901	T 09346.0902	T 09346.0903	T 09346.0904
<b>Price in Euro</b>		132.30	141.60	153.90	-
	Stainless steel 1.4404 / 1.4571	10326629	11177967	10326630	-

Thermowell with welded connection		T 09367.0201	T 09367.0202	T 09367.0203	T 09367.0204
<b>Price in Euro</b>		66.00	92.80	144.70	-
	Stainless steel 1.4404 / 1.4571	10326755	10326756	10326757	-

Sliding connection (for immersion tube 6 mm)		G 1/2	G 3/4	1/2 NPT	M20 x 1.5
<b>Ordering code</b> ►		T 08406.0016	T 08406.0017	T 08406.0019	T 08406.0020
<b>Price in Euro</b>		43.60	66.60	53.20	28.20
	Stainless steel 1.4404 / 1.4571	10298532	10326712	10298533	10326713

Sliding connection (for immersion tube 6 mm)		T 08641.0010	T 08641.0011		T 08641.0013
<b>Ordering code</b> ►		T 08641.0010	T 08641.0011		T 08641.0013
<b>Price in Euro</b>		151.40	70.40	-	151.40
	Stainless steel 1.4404 / 1.4571	10326416	10326417	-	10318577

### Spare parts

Immersion tube diameter					Ø 6 mm
<b>Material</b>		-	-	-	Stainless steel
		-	-	-	T 08404.0004
<b>Price in Euro</b>		-	-	-	10.70
	Fitting G 1/4	-	-	-	10330185

Immersion tube diameter					T 08405.0004
<b>Material</b>		-	-	-	3.60
	Olive	-	-	-	10330197

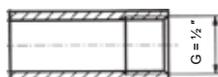
<b>Material number</b> ►	▲	▲	▲	▲
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# Welded socket for thermowell with threaded connection G 1/2

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

Thread without flange		38 mm	58 mm	78 mm	-
<b>Ordering code ►</b>		T 09178.0001	T 09178.0000	T 09178.0002	-
<b>Price in Euro</b>		17.10	23.20	40.60	-
Steel		10326610	10326609	10326611	-
<b>Price in Euro</b>		69.20	38.00	227.20	-
Stainless steel		10326612	10326613	11092219	-



For flat gasket according DIN 3852		15 mm	50 mm	100 mm (4 ")	150 mm
<b>Price in Euro</b>		18.80	28.60	40.30	37.50
Steel		10318176	10326801	10326838	10326839
<b>Price in Euro</b>		63.90	44.80	60.00	-
Stainless steel		10318177	10326840	11012394	-



Flat gasket according DIN 3852		N 01880.0301	-	-	-
<b>Price in Euro</b>		2.20	-	-	-
Copper		10329823	-	-	-
<b>Price in Euro</b>		1.40	-	-	-
PTFE		10329824	-	-	-
<b>Price in Euro</b>		7.40	-	-	-
PTFE		10325765	-	-	-



Insulating sleeve to avoid thermal bridge		25 mm	44 mm	67 mm	95 mm
<b>Price in Euro</b>		26.40	29.20	26.40	40.20
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			-
Measurement ranges	1...3 m			-
Ordering code ►	SDI-439.131.111			▼
	268.30			-
	10262331			-
Dials	Price in Euro	14.10	14.10	
	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 ...7'000 liter	10323410	...70'000 Liter	10323468
	0 ...7'250 liter	10323411	...75'000 Liter	10323469
	0 ...7'500 liter	10323412	...80'000 Liter	10323470
	0 ...7'750 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)	15.20	9709
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Example ordering code	SDI-439.131.111/9709	283.50
	Area 1 ... 3 m	
	Linear scale 0 ... 2'250 liters	

Availability	stock item	upon manufacturing	- not available
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# Pressure and temperature switches – reliable safety for all processes.

Pressure switches



RDPN, RDY,  
RDE



RPPN, RPPY,  
RPPE

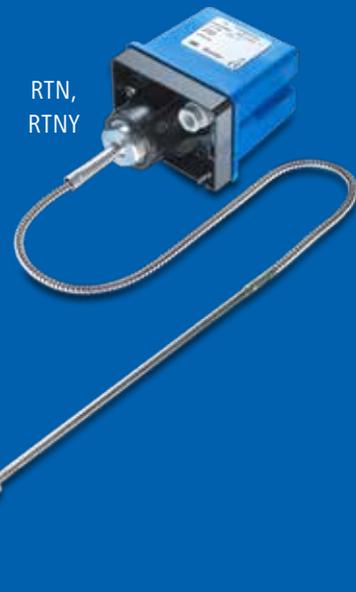


RP2N, RP2Y,  
RP2E

Temperature switches



RT2N, RT2Y



RTN,  
RTNY



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

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