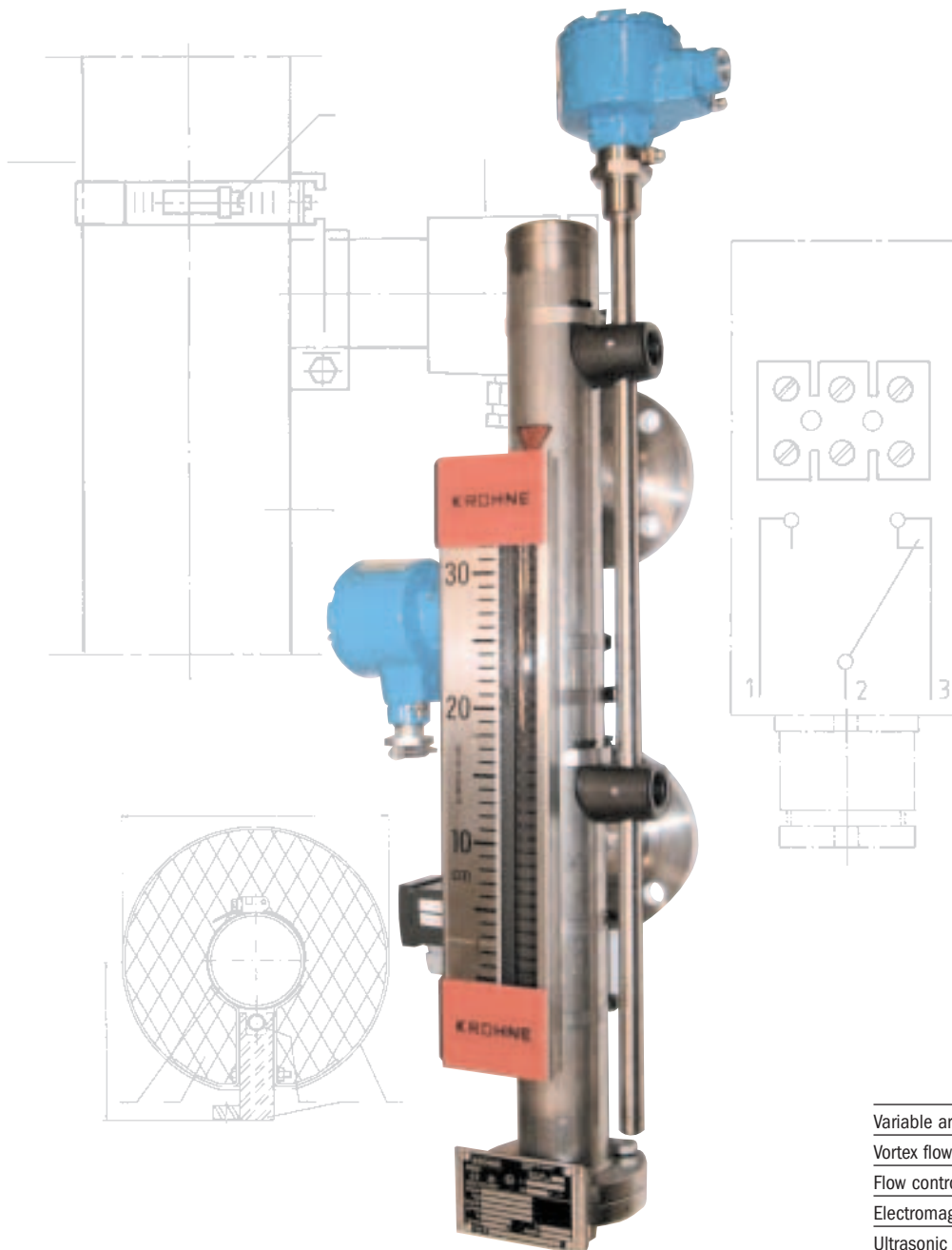


## Bypass Level Indicator BM 26 A



Variable area flowmeters

Vortex flowmeters

Flow controllers

Electromagnetic flowmeters

Ultrasonic flowmeters

Mass flowmeters

**Level measuring instruments**

Communications technology

Engineering systems & solutions

Switches, counters, displays and recorders

Heat metering

Pressure and temperature



## Bypass-level indicator BM 26 A

- **Simple, rugged design**
- **Particularly suitable for use with highly corrosive, noxious or flammable substances and ideal for severe operating conditions**
- **For Level or Interface measurement**

### Operating principle

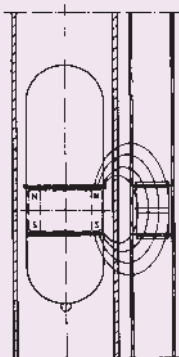
The BM 26 operates on the principle of communicating vessels. The measuring chamber is connected adjacent to the tank so that the same conditions are obtained in the chamber as those in the tank.

The float is equipped with a system of permanent magnets to transmit measured values to the local indicator.

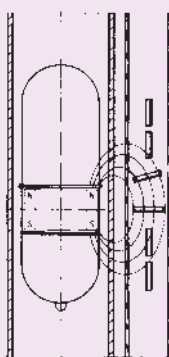
The magnet system of the float activates either the magnetic flaps according to the liquid level, or a movable follower magnet in the indicating section of the indicator depending on the method of indication chosen.

The column of reversed yellow magnetic flaps, or the vertical position of the follower magnet, indicates the liquid level.

#### Standard indicator

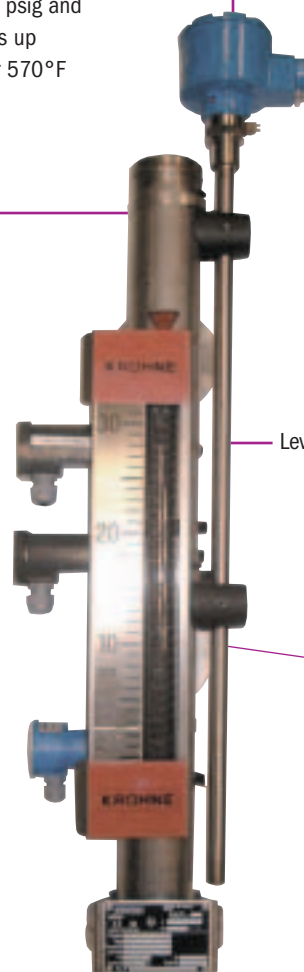


#### Flap indicator



Measuring tube for pressures up to 120 bar or 1740 psig and temperatures up to 300°C or 570°F

3 different types of protection (STD, EXI or EXD)



Level transducer

Limit switches MS 15 or MS 20 (option)

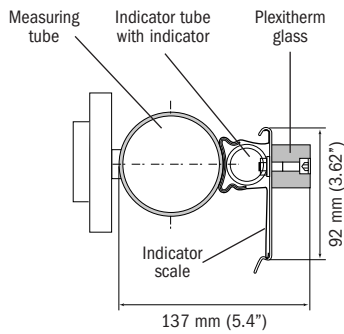
Easily read scale for level readings, no power required

## BM 26 A

### Special versions

#### BM 26 A/AG

down to  $-40^{\circ}\text{C}$  or  $-40^{\circ}\text{F}$

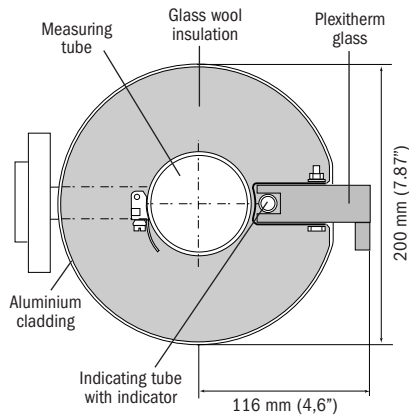


#### BM 26 A/TR, BM 26 A/IC/TR

down to  $-200^{\circ}\text{C}$  or  $-330^{\circ}\text{F}$

BM 26 A/IC/TR is insulated.

BM 26 A/TR is ready for insulation by customer, please specify length of socket up to the connection flange.

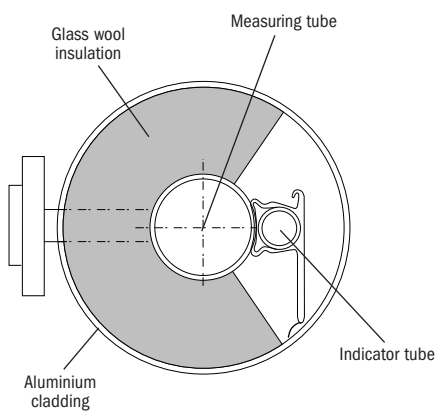


#### BM 26 A/HR, BM 26 A/IC/HR

for temperatures from  $-200 \dots +300^{\circ}\text{C}$  or  $-390 \dots +570^{\circ}\text{F}$ .

BM 26 A/IC/HR is insulated.

BM 26 A/HR is ready for insulation by customer, please specify length of socket up to the connection flange.

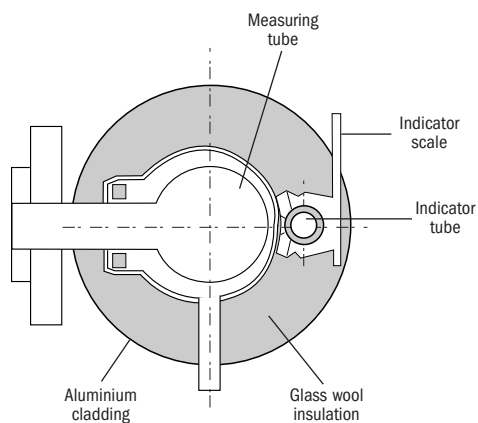


#### Heating system for measuring tube BM 26 A/B

For extreme operating conditions, the measuring tube is fitted with a heating jacket, standard connection Ermeto 12 for hot-water or steam heating.

Max. allowable operating pressure of the heating medium is 6 bar or 87 psig. Insulation of the measuring tube is recommended.

#### Section through measuring tube with heating jacket



**Technical data**

<b>Instrument type</b>	<b>BM 26 A</b>	
<b>Measuring range</b> (standard)	0.3 ... 6 m or 0.98 ... 19.68 ft	
<b>Accuracy</b>	± 10 mm or ± 0.4" of measured value	
<b>Min. product density</b>	0.5 kg/l ... 3.0 kg/l or 31.2 ... 187 lbs/ft <sup>3</sup>	
<b>Viscosity</b>	≤ 5000 mPa s or ≤ 3.360 lb/ft s	
<b>Max. allowable operating pressure at 20°C or 70°F</b> (dependent on material, flange pressure rating and float pressure resistance)	40 bar or 580 psig; Information on higher pressure levels available on request	
<b>Indicator</b>	Linear indicator with cm/m graduation	
Standard	Linear scale with inch/feet, % or volume Graduation, as required; flap indicator without scale; flap indicator with scale in cm/m, inch/feet, % or volume graduation, as required	
Option		
<b>Mounting position</b>	Vertical	
<b>Protection (indicator) to EN 60529</b>	IP 68 (equivalent to NEMA 6)	
<b>Pressure vessel approvals</b>	Pressure equipment directive 97/23/EC	
<b>Electromagnetic compatibility (EMC)</b>	EN 50081-1, EN 50082-2 and EN 61326 (1 + 2)	
<b>Ambient temperature</b>	-20°C ... +200°C or -5 ... +390°F	
Standard, with flap or bar indicator	-200°C ... +300°C or -325 ... +570°F	
Optional, non- Ex		
<b>BM 26 A Bypass Level Indicator for all options, except those shown in tables below</b>		
Temperature class	Process temperature	Ambient temperature range for:
T6	T(fluid) ≤70°C or ≤160°F	-20...+60°C or -4...+140°F
T5	T(fluid) ≤95°C or ≤205°F	-20...+50°C or -4...+120°F
T4	T(fluid) ≤130°C or ≤265°F	-20...+50°C or -4...+120°F
T3	T(fluid) ≤195°C or ≤380°F	-20...+40°C or -4...+105°F
<b>BM 26 A Bypass Level Indicator with level transducer PRETOP 5343B transmitter and / or all EXI – approved level switches</b>		
Temperature class	Process temperature	Ambient temperature range for:
T6	T(fluid) ≤70°C or ≤160°F	-40...+60°C or -40...+140°F
T5	T(fluid) ≤95°C or ≤205°F	-40...+50°C or -40...+120°F
T4	T(fluid) ≤130°C or ≤265°F	-40...+50°C or -40...+120°F
T3	T(fluid) ≤195°C or ≤380°F	-40...+40°C or -40...+105°F
<b>BM 26 A Bypass Level Indicator without level transducer or level switch</b>		
Temperature class	Process temperature	Ambient temperature
T6	T(fluid) ≤70°C or 160°F	-20...+60°C or -4...+140°F
T5	T(fluid) ≤95°C or 205°F	-20...+50°C or -4...+120°F
T4	T(fluid) ≤130°C or 265°F	-20...+50°C or -4...+120°F
T3	T(fluid) ≤195°C or 380°F	-20...+40°C or -4...+105°F
<b>Connecting flanges</b>		
Standard	DN 25, PN 40 Form C (to DIN 2656)	
Option	DN 15...DN 50, PN 16 or PN 40 or 1/2" ... 2", 150 lbs/RF or 300 lbs/RF	
<b>Connecting flanges for the heating jacket</b>		
Screw joint (standard)	Ermeto 12; DN 15, PN 40 or 1/2", 150 lbs/RF or 300 lbs/RF	
Pipe	12 x 1 mm or 0.47" x 0.04"	
Information on other standards and pressure ratings supplied on request		
<b>Materials</b>	See "Instrument versions"	
<b>Level transducer</b>		
<b>ER (reed chain)</b>	Current output 4...20 mA	
<b>Limit switches MS 15; MS 20</b>	Min. and max. contact	

# BM 26 A

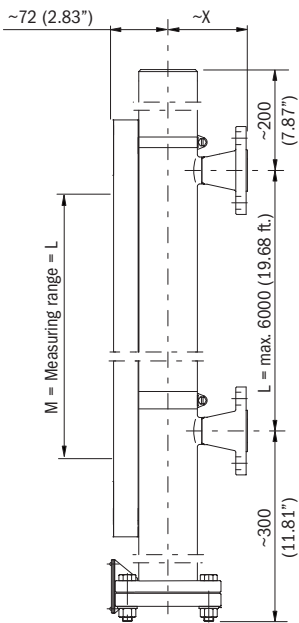
## Instrument versions

BM 26 A measuring tube class	Description
BM 26 A/C	Equipped with two lateral connections
BM 26 A/D	Equipped with two axial connections
BM 26 A/E	Equipped with one axial entry and one bottom lateral exit connection
BM 26 A/F	Equipped with one lateral entry and one top axial exit connection

## Dimensions

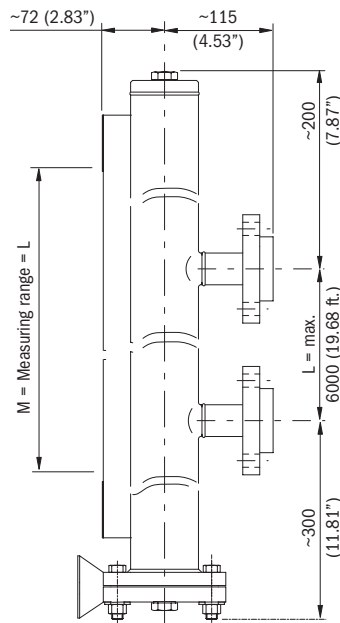
### BM 26 A/C/RR

Welding neck flange



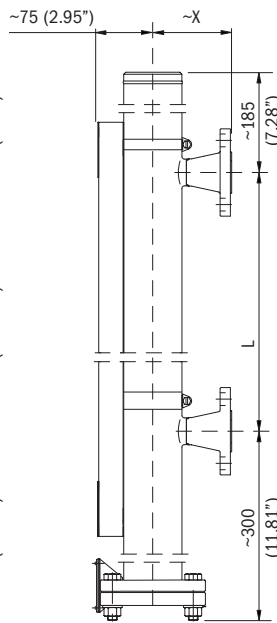
### BM 26 A/C/RR

Loose (EN-DIN) flange



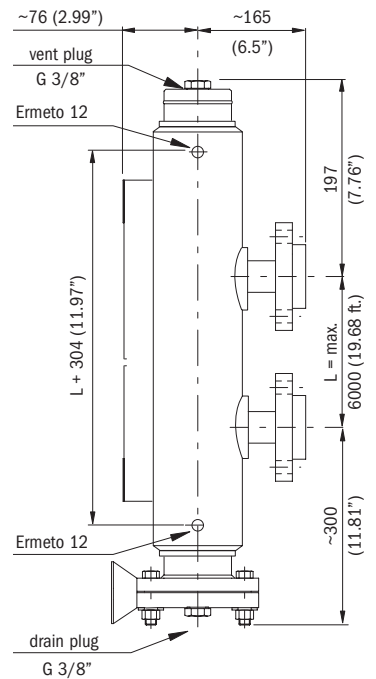
### BM 26 A/C/ATEX

Welding neck flange



### BM 26 A/C/B

(reheater sub-type C)  
Loose (EN-DIN) flange

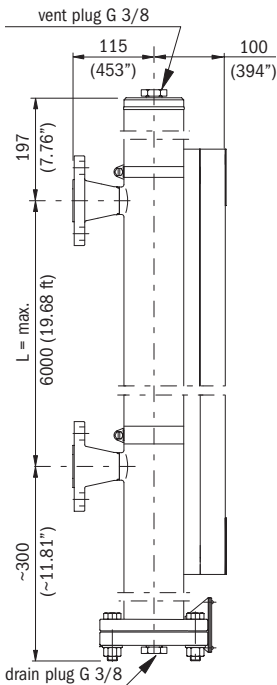


"X" is not defined

### BM 26 A/C/AG

(anti-freeze sub-type C)

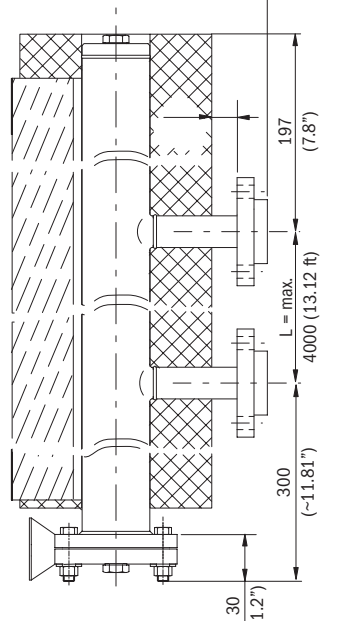
Welding neck flange



### BM 26 A/C/IC/TR or /HR

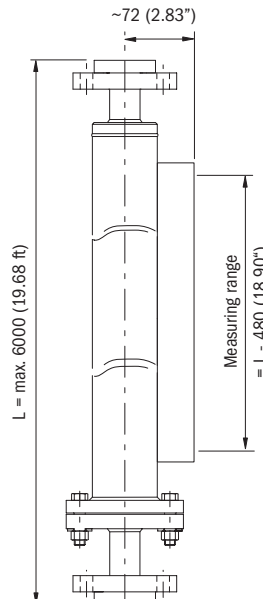
TR low, HR high temperature

Loose (EN-DIN) flange



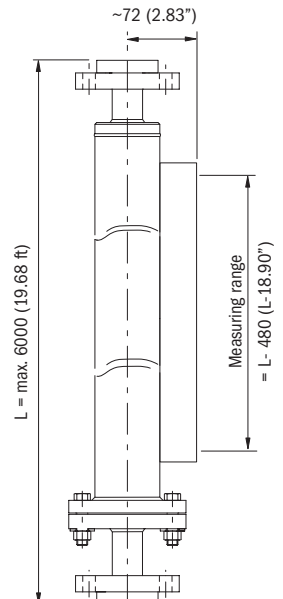
### BM 26 A/D/RR

Loose (EN-DIN) flange



### BM 26 A/D/RR

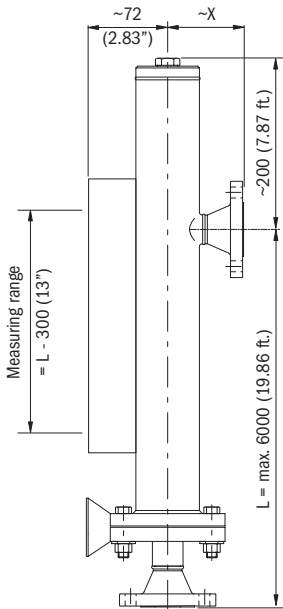
Loose (EN-DIN) flange



## BM 26 A

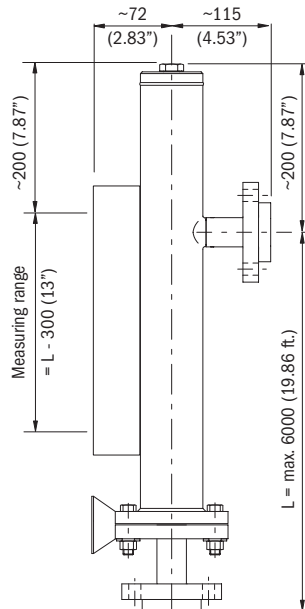
### BM 26 A/E/RR

Welding neck flange



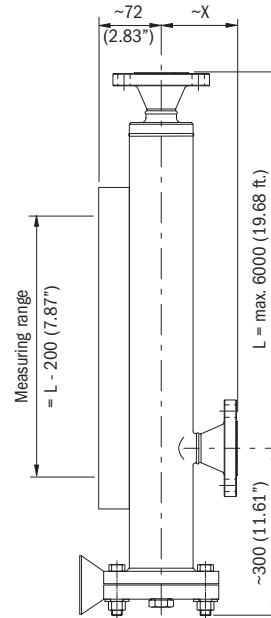
### BM 26 A/E/RR

Loose (EN-DIN) flange



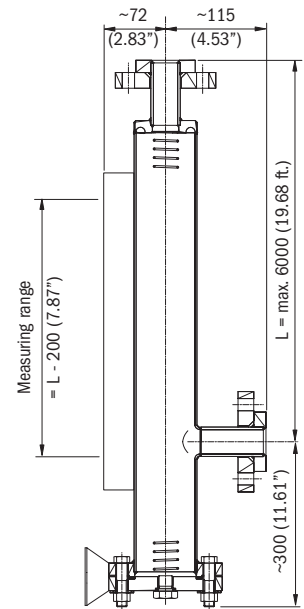
### BM 26 A/F/RR

Welding neck flange



### BM 26 A/F/RR

Loose (EN-DIN) flange



Dimensions in mm (inches)

"X" is not defined

## Weights

Version	Weight in kg (for 1 m or 3.28 ft)		Weight in lbs (for 1 m or 3.28 ft)	
BM 26 A/STD	14.5	0.51*	31.96	1.12*
BM 26 A/EXD	20.6	0.82*	45.50	1.81*

\* weight for every additional 100 mm or 3.94" flange spacing

## Guide tube assembly materials

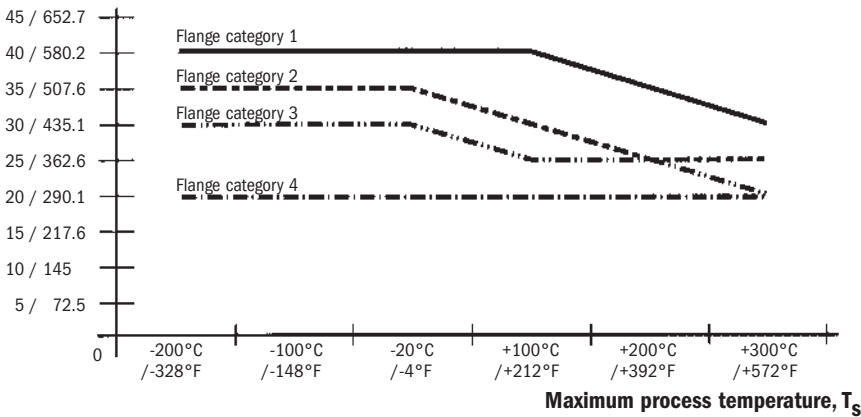
Version	Flange	Gaskets	Measuring tube		
			Material	Diameter	
				mm	inches
BM 26 A	Stainless steel 316Ti (1.4571) or 316L (1.4404)	Aramide (PTFE optional)	Stainless steel 316Ti (1.4571) or 316L (1.4404)	72 x 2.3	2.83 x 0.091

**Maximum operating conditions  
(according to Pressure Equipment Directive 97 / 23 / EC)**

**BM 26 A with 316 Ti steel measuring tube**

Maximum allowable  
operating pressure,  $P_S$

bar / psig



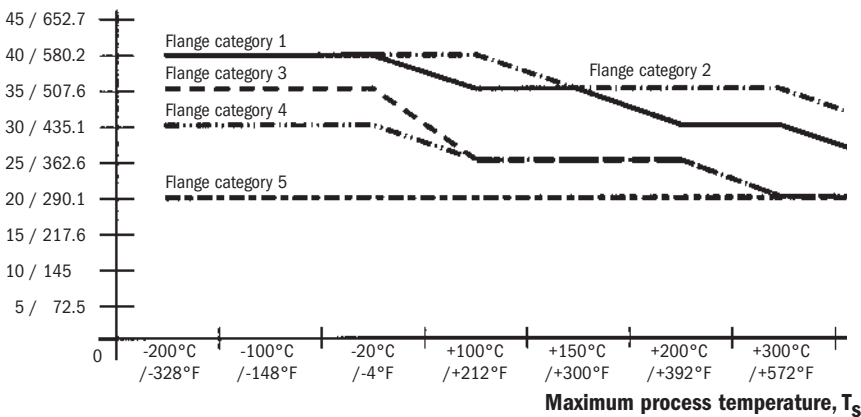
**Flange Categories**

1	2	3	4
DN15 PN40 DN20 PN40 DN25 PN40 DN15 PN40 WN DN20 PN40 WN DN25 PN40 WN 1/2" ASA 300 lbs 3/4" ASA 300 lbs 1" ASA 300 lbs 1 1/2" ASA 300 lbs	DN50 PN40 DN50 PN40 WN 2" ASA 300 lbs	DN40 PN40 DN40 PN40 WN	1/2" ASA 150 lbs 3/4" ASA 150 lbs 1" ASA 150 lbs 1 1/2" ASA 150 lbs 2" ASA 150 lbs

**BM 26 A with 316 L steel measuring tube**

Maximum allowable  
operating pressure,  $P_S$

bar / psig



**Flange Categories**

1	2	3	4	5
DN15 PN40 DN20 PN40 DN15 PN40 WN DN20 PN40 WN 1/2" ASA 300 lbs 3/4" ASA 300 lbs	DN25 PN40 DN25 PN40 WN 1" ANSI 300 lbs	DN40 PN40 DN40 PN40 WN 1 1/2" ASA 300 lbs	DN50 PN40 DN50 PN40 WN 2" ASA 300 lbs	1/2" ASA 150 lbs 3/4" ASA 150 lbs 1" ANSI 150 lbs 1 1/2" ASA 150 lbs 2" ASA 300 lbs

### Level transducer

A choice of three transmitters are available for the BM 26 A. The transmitter is defined by the type of communication used, electronics housing protection, housing material and transmitter module.

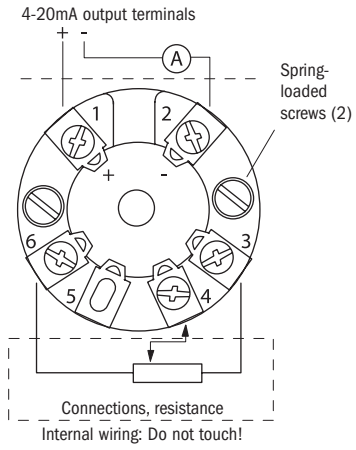
Version designation	Housing protection	Housing material	Transmitter module
ER/STD/AL/D	Without (non Ex)	AL (Aluminium)	PRElevel
ER/EXI/AL/D	EExia	AL (Aluminium)	PRElevel
ER/EXD/AL/D	EExd	AL (Aluminium)	PRElevel

### Technical data

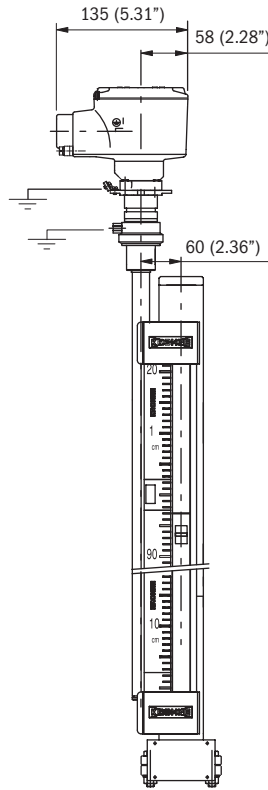
<b>Module</b>	<b>PRElevel</b> (PRETOP 5343B)
<b>Description</b>	4...20 mA intrinsically-safe transmitter; Conversion of change in resistance to analogue current signals.
<b>Output</b>	4...20 mA (limits: 3.8; 23 mA); Scale inversion possible. Max. load $R_L = \frac{(U - 8)}{0.023} [\Omega]$
<b>Measuring error</b>	$\leq \pm 0.1\%$ of range
<b>Updating time</b>	100 ms
<b>Power supply</b>	8 ...35 V DC
<b>Ambient temperature °C</b>	-40...+60°C (T6) -40...+85°C (T4)
<b>Ambient temperature °F</b>	-40...+140°F (T6) -40...+185°F (T4)
<b>Human interface</b>	PC with communications interface Loop Link 5905 and configuration software provided on a CD-ROM; Sensor error detection is programmable for different output values; NAMUR NE43 values can be selected directly; Response time is programmable.
<b>Certificates and Approvals</b> Standards Ex	EN 50014 and EN 50020; EN 50081-1 and 2; EN 50082-1 and 2 EEx ia IIC T4/T6; ATEX 127088
<b>Maximum power dissipated by the Exd housing</b>	5 W
<b>Maximum safety values for Exi applications</b> At 4...20 mA terminal block	U <sub>i</sub> : 28 V I <sub>i</sub> : 120 mA P <sub>i</sub> : 0.84 W C <sub>i</sub> : 1 nF L <sub>i</sub> : 10 µH

### Electrical connections

#### PRElevel (top view)



### Dimensions



**Limit switches**

To signal specific liquid levels, the BM 26 A bypass level indicator can be equipped with 13 different types of limit switch that are clamped to the measuring tube and are adjustable over the whole measuring range. They are actuated by a magnet incorporated into the float. The operating conditions define which limit switches may be used.

Housing protection	Cut-out power	Housing material	NAMUR conformity	Process temperature
STD (Without)	LC (Low power cut-out)	PC (Polycarbonate / Standard)	NN (Non-NAMUR)	BT (Low temperature)
EXI (EExia)	HC (High power cut-out)	AL (Aluminium)	NO (NAMUR)	HT (High temperature)

**Limit switches for the BM26 A (non-Ex)**

Designation	Power cut-out	Process temperature (°C or °F)	Ambient temperature (°C or °F)
MS20/STD/LC/PC/NN/BT	20 W; 1.5 A; 250 V AC	<250 or <480	-20...+120 or -5...+245
MS15/STD/LC/PC/NO/BT	NAMUR	<250 or <480	-20...+120 or -5...+245
MS15/STD/LC/AL/NN/HT	20 W; 1.5 A; 250 V AC	<300 or <570	-20...+120 or -5...+245
MS15/STD/LC/AL/NO/HT	NAMUR	<300 or <570	-20...+120 or -5...+245
MS15/STD/HC/PC/NN/BT	Max. 100 W; Min. 3 W; 1.5 A; 250 V AC	<250 or <480	-20...+120 or -5...+245
MS15/STD/HC/AL/NN/HT	Max. 100 W; Min. 3 W; 1.5 A; 250 V AC	<300 or <570	-20...+120 or -5...+245

**Limit switches for the BM26 A (Ex)**

Designation	Power cut-out	Process temperature and ambient temperature
MS20/EXI/LC/PC/NN/BT	1.5 A	Dependant on ATEX temperature class*
MS15/EXI/LC/PC/NO/BT	NAMUR	Dependant on ATEX temperature class*
MS15/EXI/LC/AL/NN/HT	1.5 A	Dependant on ATEX temperature class*
MS15/EXI/LC/AL/NO/HT	NAMUR	Dependant on ATEX temperature class*
MS15/EXD/LC/AL/NN/HT	20 W; 1.5 A; 250 V AC	Dependant on ATEX temperature class*
MS15/EXD/LC/AL/NO/HT	NAMUR	Dependant on ATEX temperature class*
MS15/EXD/HC/AL/NN/HT	Max. 100 W; Min. 3 W; 1.5 A; 250 V AC	Dependant on ATEX temperature class*

\* See page 4 for values.

**MS 15 EXI**



**MS 15/STD, MS 15/EXI, MS 15/EXD, MS 20/STD, MS 20/EXI**

The limit switches consist of a reed contact that is actuated directly by the magnet system in the float. Due to its bistable switching characteristic, the switching state is maintained until the float magnet system again activates the limit switch in the opposite direction. Line-side connection of a suitable isolation switching amplifier is recommended.

**MS 15 EXD**



**MS 20 EXI**



**Technical data**

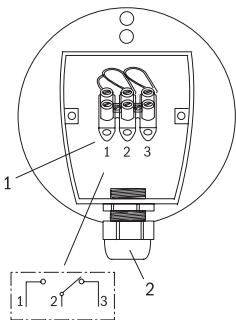
Limit switch	MS 15/STD	MS 15/EXIa	MS 15/EXD	MS15/* /NAMUR
Max. switching capacity	20 VA; 1.5 A; 250 V AC	20 VA; 1.5 A; 250 V AC	20 VA; 1.5 A; 250 V AC	According to NAMUR 19234
Ambient temperature	-20...+120°C or -4...+250°F	-20...+120°C or -4...+250°F	-20...+60°C or -4...+140°F	*
Process temperature	<250°C or <480°F	<250°C or <480°F	<200°C or <390°F	*
Protection category to EN 60529	IP 65 (NEMA 4/4X)	IP 65 (NEMA 4/4X)	IP 65 (NEMA 4/4X)	*
Cable entry	PG 13.5	PG 13.5	M 25 x 1.5	*
Housing material	polycarbonate	polycarbonate	aluminium	*
Hysteresis	0	0	0	*
Weight	130 g or 0.3 lbs	130 g or 0.3 lbs	1200 g or 2.6 lbs	*

Limit switch	MS 20/STD	MS 20/EXIa
Max. switching capacity	20 VA 1.5 A, 250 V AC	20 VA 1.5 A, 250 V AC
Ambient temperature	-20...+120°C or -4...+250°F	-20...+80°C (T6) or -20...+95°C (T5) -4...+175°F (T6) or -4...+200°F (T5)
Process temperature	< 250°C or < 480°F	< 250°C or < 480°F
Protection category to EN 60529	IP 65 (NEMA 4/4X)	IP 65 (NEMA 4/4X)
Cable entry	PG 9	PG 9
Housing material	polycarbonate	polycarbonate
Hysteresis	0	0
Weight	85 g or 0.2 lbs	85 g or 0.2 lbs

\* For these characteristics refer to the other columns in the table above for STD (i.e. non-Ex), EXIa or EXD switches - depending on which official approval has been selected.

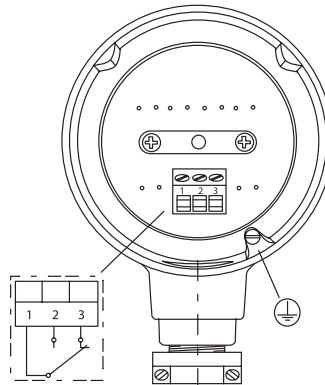
**Electrical connections**

**MS 15/STD or MS 15/EXI terminals**

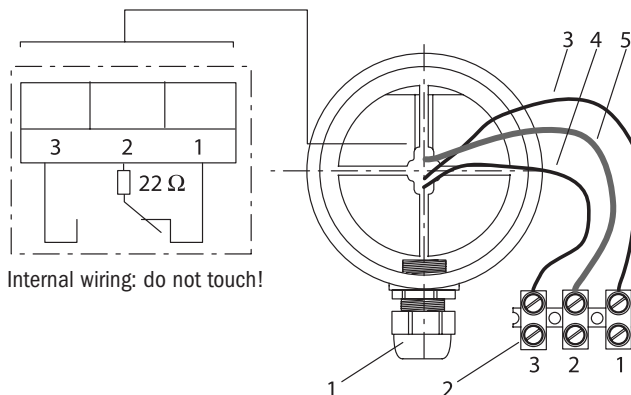


- 1 Terminals
- 2 Cable entry fitting PG13.5

**MS 15/EXD terminals**



**MS 20/STD or MS 20/EXI terminals**

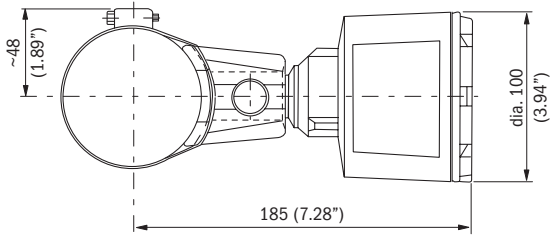


- 1 Cable entry fitting PG9
- 2 Terminal block
- 3 Blue wire (terminal 1)
- 4 Black wire (terminal 3)
- 5 Brown wire (terminal 2)

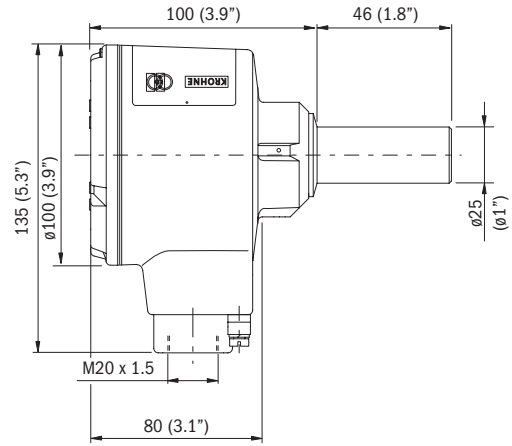
# BM 26 A

## Dimensions

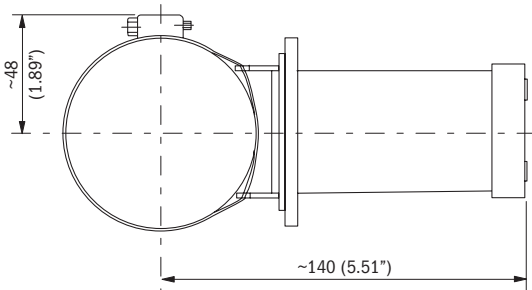
### MS 15/EXD



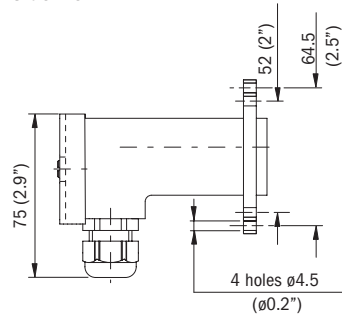
### MS 15/EXD/AL without cable fitting Side view



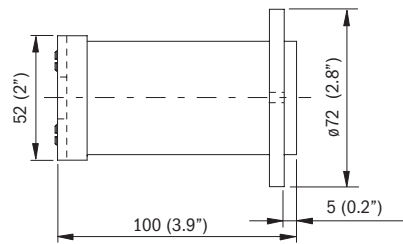
### MS 15/STD and MS 15/EXI



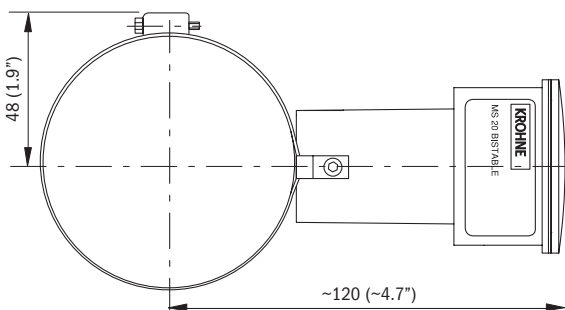
### MS 15/STD and MS 15/EXI with PG13.5 fitting Side view



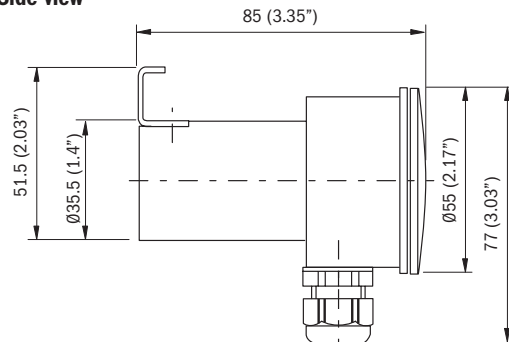
### Top view



### MS 20/STD and MS 20/EXI



### MS 20/STD and /EXI with PG9 fitting and integrated bracket Side view



Dimensions in mm (inches)

**Floats**

Select float as a function of the pressure, temperature, and density of the liquid. In addition, the required degree of corrosion resistance and use of the correct magnet system must be considered when selecting materials.

Code VF06...	Float No.	Float options	Dimension diameter in		Material options
			mm	inches	
<b>Standard versions without approvals or for use in Ex hazardous zones</b>					
1	2	Cylinder	64 x 200 x 0.5	2.52 x 7.87 x 0.02	316Ti (1.4571) or 316L (1.4404)
2	1	Cylinder	64 x 200 x 1.0	2.52 x 7.87 x 0.04	316Ti (1.4571) or 316L (1.4404)
3	3	Cylinder	64 x 208 x 0.6	2.52 x 8.19 x 0.024	titanium
4	4	Cylinder	64 x 208 x 1.0	2.52 x 8.19 x 0.04	titanium
5	2	Cylinder, pressure balanced	64 x 200 x 0.5	2.52 x 7.87 x 0.02	316Ti (1.4571) or 316L (1.4404)
6	3	Cylinder, pressure balanced	64 x 208 x 0.6	2.52 x 8.19 x 0.024	titanium
7	2	Cylinder, adjusted density	64 x 200 x 0.5	2.52 x 7.87 x 0.02	316Ti (1.4571) or 316L (1.4404)
8	1	Cylinder, adjusted density	64 x 200 x 1.0	2.52 x 7.87 x 0.04	316Ti (1.4571) or 316L (1.4404)
A	2	Cylinder, low density	64 x 200 x 0.5	2.52 x 7.87 x 0.02	316Ti (1.4571) or 316L (1.4404)
B	1	Cylinder, low density	64 x 200 x 1.0	2.52 x 7.87 x 0.04	316Ti (1.4571) or 316L (1.4404)
C	3	Cylinder, low density	64 x 208 x 0.6	2.52 x 8.19 x 0.024	titanium
D	3	Cylinder, low density	64 x 208 x 1.0	2.52 x 8.19 x 0.04	titanium
F	2	Cylinder, density adjusted, low density	64 x 200 x 0.5	2.52 x 7.87 x 0.02	316Ti (1.4571) or 316L (1.4404)
G	1	Cylinder, density adjusted, low density	64 x 200 x 1.0	2.52 x 7.87 x 0.04	316Ti (1.4571) or 316L (1.4404)
H	2	Cylinder, guided for v. low density	64 x 200 x 0.5	2.52 x 7.87 x 0.02	316Ti (1.4571) or 316L (1.4404)
K	1	Cylinder, guided for v. low density	64 x 200 x 1.0	2.52 x 7.87 x 0.04	316Ti (1.4571) or 316L (1.4404)
L	3	Cylinder, guided for v. low density	64 x 208 x 0.6	2.52 x 8.19 x 0.024	titanium
M	4	Cylinder, guided for v. low density	64 x 208 x 1.0	2.52 x 8.19 x 0.04	titanium
R	1	Cylinder, ballasted for interface	64 x 200 x 1.0	2.52 x 7.87 x 0.04	316Ti (1.4571) or 316L (1.4404)
S	4	Cylinder, ballasted for interface	64 x 208 x 1.0	2.52 x 8.19 x 0.04	titanium

**Application limits**

**Density and temperature limits**

Float BM 26 A No.	Density and temperature limits					
	Min. density of product		Product temperature			
	kg/l	lbs/ft <sup>3</sup>	min.		max.	
			°C	°F	°C	°F
<b>BM 26 A/Standard versions without approvals</b>						
1	0.82	51.19	-200	-330	+300	+570
2	0.55	34.34	-200	-330	+300	+570
3	0.50	31.21	-200	-330	+300	+570
4	0.60	37.46	-200	-330	+300	+570

**Instruments or approved for use in Ex hazardous zones**

**BM 26 A/ATEX (local indicator with electrical equipment)**

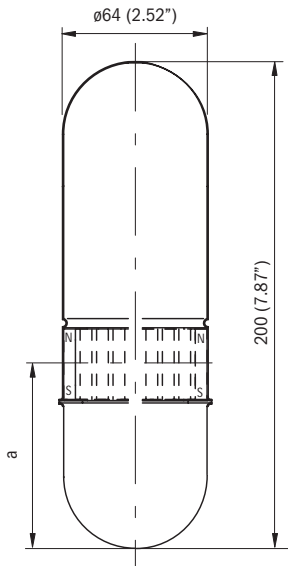
1	0.82	51.19	-20	-4	+100	+210
2	0.55	34.34	-20	-4	+100	+210
3	0.50	31.21	-20	-4	+100	+210
4	0.60	37.46	-20	-4	+100	+210

**Operating pressure limits**

Float BM 26 A No.	Application limits							
	Max. allowable operating pressure							
	20°C or 70°F		100°C or 210°F		200°C or 390°F		300°C or 570°F	
	bar	psig	bar	psig	bar	psig	bar	psig
<b>Standard versions without approvals</b>								
1	55	800	41	600	37	535	32	464
2	23	335	12	175	10	145	9	131
3	23	335	13	188	10	145	8	115
4	55	800	31	450	24	350	19	276
<b>BM 26 A/Ex (local indicator with electrical equipment)</b>								
1	55	800	41	600	-	-	-	-
2	23	335	12	175	-	-	-	-
3	23	335	13	188	-	-	-	-
4	55	800	31	450	-	-	-	-

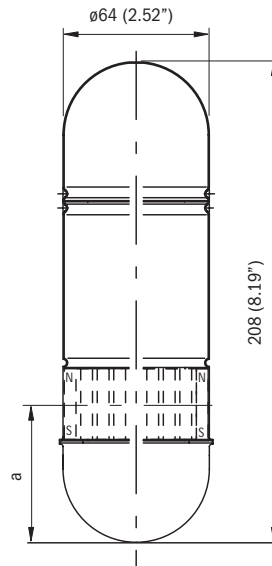
**Dimensions**

**Floats-No. 1, 2 (316 L or 316 TL)**



where a = 47 mm or 1.85"  
Dimensions in mm (inches)

**Floats-No. 3, 4 (Titanium)**



where a = 48 mm or 1.89"

**Wall thickness**

Float	Wall thickness
1	1 mm or 0.04"
2	0.5 mm or 0.02"
3	0.6 mm or 0.024"
4	1 mm or 0.04"

Type code

BM 26 A bypass liquid level indicator

4.5.02  
Level indicator BM 26 A  
Last update: 19.03.03

Code Level indicator		Connection type and material		C E / RR / 316 TI		bottom axial / top lateral		G C / RR / 316 L		lateral / lateral *		K E / RR / 316 L		bottom axial / top lateral			
VF06 0		A C / RR / 316 TI lateral / lateral		D / RR / 316 TI axial / axial		F / RR / 316 TI bottom lateral / top axial		H D / RR / 316 L axial / axial		L F / RR / 316 L bottom lateral / top axial		U V / RR / 316 L bottom lateral / top axial		W X / RR / 316 L bottom lateral / top axial			
Connection DN PN		1 DN 15 PN 40 flange		lap joint		2 DN 20 PN 40 flange		lap joint		3 DN 25 PN 40 flange		lap joint		4 DN 40 PN 40 flange		lap joint	
C - C Length > 1 m		0 0 m (standard)				1 1 m				2 2 m				3 3 m			
C - C Length in "mm"		0 0 mm				1 100 mm		4 400 mm		5 500 mm		7 700 mm		8 800 mm		9 900 mm	
Float		1 0,5 mm "316 TI / 316 L" 15"		2 1 mm "316 TI / 316 L" 15" (standard)		3 0,6 mm "Titanium" 15"		4 1 mm "Titanium" 15"		5 0,5 mm "316 TI / 316 L" 10" p. balanced		6 0,6 mm "Titanium" 15" p. balanced		7 0,5 mm "316 TI / 316 L" 15" d. adjusted		8 1 mm "316 TI / 316 L" 15" d. adjusted	
Float		C 0,6 mm "Titanium" 10" low density		D 1 mm "Titanium" 10" low density		E 0,5 mm "316 TI / 316 L" 15" d. adjusted low density		F 1 mm "316 TI / 316 L" 15" d. adjusted low density		G 0,5 mm "316 TI / 316 L" 3" guided float for very low density		H 1 mm "316 TI / 316 L" 3" guided float for very low density		I 0,6 mm "Titanium" 3" guided float for very low density		J 1 mm "Titanium" 3" guided float for very low density	
Flange types		0 standard flanges		1 large longue		2 large groove		3 small tongue		4 small groove		5 large male		6 small male		7 large female	
Flange types		8 small female		9 Feder DIN 2512		A Nut DIN 2512		C V13 DIN 2513		D R13 DIN 2513							
Gaskets type		0 standard gasket (Klingert)		1 PTFE gasket													
Indication / Scale		0 st. Steel scale (m+cm) (index)		1 feet + inches st. Steel scale (index)		2 without scale (index)		3 % st. Steel scale (index)		4 volume st. Steel scale (index)		5 without scale (flap)		6 st. Steel scale (m+cm) (flap)		7 feet + inches st. Steel scale (flap)	
Indication / Scale		8 % st. Steel scale (flap)		A volume st. Steel scale (flap)		D without indication											
Drain		0 without drain		1 G 3/8" drain		2 1/2" GAZ		3 3/8" NPT		4 1/2" NPT		5 3/4" NPT		6 DN 15 PN 40 WN flange		7 DN 25 PN 40 WN flange	
Drain		8 DN 15 PN 40 WN flange		9 DN 25 PN 40 WN flange		A 1/2" ANSI 150 WN flange		B 3/4" ANSI 150 WN flange		C 1" ANSI 150 WN flange		D 1/2" ANSI 300 WN flange		E DN 15 PN 40 WN flange		F DN 25 PN 40 WN flange	
Drain		G 3/4" ANSI 300 WN flange		H 1" ANSI 300 WN flange													
Vent		0 without event		1 G 3/8" event		2 1/2" GAZ		3 3/8" NPT		4 1/2" NPT		5 3/4" NPT		6 DN 15 PN 40 WN flange		7 DN 25 PN 40 WN flange	
Vent		8 DN 15 PN 40 WN flange		9 DN 25 PN 40 WN flange		A 1/2" ANSI 150 WN flange		B 3/4" ANSI 150 WN flange		C 1" ANSI 150 WN flange		D 1/2" ANSI 300 WN flange		E DN 15 PN 40 WN flange		F DN 25 PN 40 WN flange	
Vent		G 3/4" ANSI 300 WN flange		H 1" ANSI 300 WN flange													
Design: (low, high temperature, heating) TR, AG, HR, B		0 standard		3 TR-ANTI-FREEZE LONG CONNECTION (DBG)		4 AG-ANTI-FREEZE (FR)		6 HR-H TEMP INDICATOR ONLY		7 HR-H TEMP INDICATOR & LONG CONNECTION		K B FLANGE DN15 & LONG CONNECTION		N B/HR FLANGE-DN15 LONG CONNECTION			
Insulation		0 without insulation jacket		5 with insulation jacket (foam neoprene)													
Admissible maximum temperature		1 -200°C		2 -100°C		3 -20°C		4 +20°C		5 +100°C		6 +195°C		7 +300°C			
Approval		0 Non Ex		1 EEx d IIC (1/2G) T3 T6		2 EEx d IIC (2G) T3 T6								3 EEx ia IIC (1G) T3 T6			
Contact type		0 without		1 MS 20/ STD / LCI / PC / NN / BT		2 MS 15/RE/ STD / LCI / PC / NO / BT		3 MS 15 /RE/ STD / LCI / AL / NN / HT		4 MS 15 /RE/ STD / LCI / AL / NO / HT		5 MS 15 /RE/ STD / HCI / PC / NN / BT		6 MS 15 /RE/ STD / HCI / AL / NN / HT		7 MS 20/ ExI / LCI / PC / NN / BT	
Contact type		8 MS 15 /RE/ ExI / LCI / PC / NO / BT		9 MS 15 /RE/ ExI / LCI / AL / NN / HT		A MS 15 /RE/ ExI / LCI / AL / NO / HT											
Contact number		0 without		1 1 switch										2 2 switches		3 3 switches	
ER Transmitter		0 without ER transmitter		1 ER/ST/DIAL/D (Pr level PRETOP 5343B)										4 ER/EXI/AL/D (Pr level PRETOP 5343B)		6 ER/EXD/AL/D (Pr level PRETOP 5343B)	
Material Certificate		0 Without		2 3.1.b Certificate for pieces under pressure		5 Material conformity certificate											
Hydraulics Control Certificate		0 Without		1 2.3. Hydraulics test certificate		2 3.1.B Hydraulics test certificate											
Certificate for Calibration		0 Without		1 Adjustment certificate													
Certificates (miscellaneous)		0 Without		1 2.1. Certificate of compliance with order		2 Overall dimensions (layout)		3 Tag on Stainless steel plate 20x40		4 2.1. Certificate + overall dimensions (layout)		5 2.1. + Tag on Stainless Steel plate		6 Overall dimensions + Tag on Stainless Steel plate		7 2.1. + Overall dimensions + Tag on SS plate	

\* Standard version