

For further approvals, see page 8

In-line resistance thermometer Model TR25

Applications

- Food and beverage industry, dairies, drink dispensers and bottling plants, breweries
- Bio and pharmaceutical industries, cleanroom technology
- For piggable systems

In-line resistance thermometer, model TR25 Options: sealing combination at neck tube, cable gland in Hygienic Design

Special features

- Hygienic Design (dead-space free transitions)
- Residue-free and quick cleaning of the measuring point (piggable, suitable for SIP and CIP)
- Materials and surface finish qualities in accordance with pharmaceutical industry directives and standards
- High measuring accuracy with short response times
- Also as explosion-protected versions



Resistance thermometer for temperature measurement in pipelines with extremely high hygienic requirements. This thermometer is used in applications where a thermowell/ protection tube immersed into the process medium is not possible or not desired, particularly for piggable pipelines, highly viscous media and flow conditions with high shear forces. A wide variety of process connections enables problem-free fitting into many different processes. 3- or 4-wire platinum measuring resistors in accuracy classes A and B per DIN EN 60751 serve as sensors.

Analogue or digital transmitters built into the connection head are capable of making various output signals available, for example 4 ... 20 mA, HART[®] protocol, FOUNDATION[™] Fieldbus or PROFIBUS[®] PA.



WIKA data sheet TE 60.25 · 08/2023

Data sheets showing similar products and accessories

Resistance thermometer for sanitary applications, NEUMO BioControl®; model TR20; see data sheet TE 60.20

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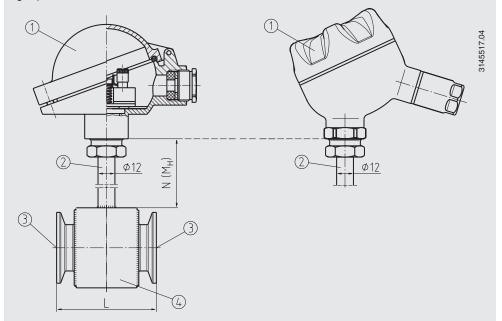
Miniature resistance thermometer for sanitary applications, for orbital welding; model TR21-B; see data sheet TE 60.27

WIKA data sheet TE 60.25

Specifications

Representation of the components

Fig. representation with connection head BSZ and BVS



Legend:

- ① Connection head
- ② Neck tube
- ③ Process connection
- ④ Tubular body

L Insertion length

N (M_H) Neck length

Measuring element		
Type of measuring element ¹⁾	Pt100 (thin-film)	
	→ For detailed specifications for Pt sensors, see technical information IN 00.17 at www.wika.com.	
Measuring current		
Transmitter version	Model T15	< 0.2 mA
	Model T32	< 0.3 mA
Pt100 version (without transmitter)	0.1 1.0 mA	
Connection method		
Transmitter version	 1 x 3-wire 1 x 4-wire 	
Pt100 version (without transmitter)	 1 x 3-wire 1 x 4-wire 	
Tolerance value of the measuring element ²⁾ per IEC 60751	Class AClass B	

1) Instrument does not have a replaceable measuring insert.

2) Specification is only valid for the measuring element. Depending on the process connection, the deviation can be bigger.

→ For accuracy specifications of built-in temperature transmitters, see respective transmitter data sheet.

Accuracy specifications (4 20 mA version) and HART [®] protocol			
Measuring deviation ¹⁾ -1 Kelvin + accuracy of the relevant transmitter			

1) Measured at 100 °C [212 °F]

Documentation and correction of measuring deviations

With these electrical thermometers, the measuring deviation can be determined under realistic mounting conditions and certified with a test certificate. The standard test temperature is 70 °C [158 °F]; others available on request. If a digital transmitter is mounted within the thermometer, any measuring deviation determined can be corrected using the transmitter's adaption feature.

Measuring range		
Temperature range		
Transmitter version	-50 +150 °C [-58	3 +302 °F] ¹⁾
Further measuring ranges are		ranges are adjustable
Pt100 version (without transmitter)	Class A	-30 +150 °C [-22 +302 °F]
	Class B	-50 +150 °C [-58 +302 °F]
Unit (4 20 mA version)	Configurable °C, °F, K	

1) The connection head should therefore be protected from temperatures over 80 $^\circ C$ [176 $^\circ F$].

Connection head						
Model		Material	Cable inlet thread size	Ingress protection (max.) ¹⁾ IEC/EN 60529	Сар	Surface
	BS	Aluminium	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65 ³⁾	Flat cover with 2 screws	Blue, painted (RAL 5022)
	BSZ	Aluminium	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65 ³⁾	Spherical hinged cover with cylinder head screw	Blue, painted (RAL 5022)
	BSZ-H	Aluminium	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65 ³⁾	Raised hinged cover with cylinder head screw	Blue, painted (RAL 5022)
	BSZ-HK	PAV antistat- ic PA12	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65	Raised hinged cover with cylinder head screw	Black
	BSZ-H / DIH10 ²⁾	Aluminium	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65	Raised hinged cover with cylinder head screw	Blue, painted (RAL 5022)
	BSS	Aluminium	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65	Spherical hinged cover with clamping lever	Blue, painted (RAL 5022)
	BSS-H	Aluminium	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65	Raised hinged cover with clamping lever	Blue, painted (RAL 5022)
	BVS	Stain- less steel (1.4308)	 M20 x 1.5 M12 x 1 coupler connector (4-pin) 	IP65	Screw-on lid, Hygienic Design	Natural finish, electropol- ished
	BVC	Stain- less steel (1.4571)	 M16 x 1.5 M12 x 1 coupler connector (4-pin) 	IP68 ⁴⁾	Flat screw-on lid	Metal bright finished

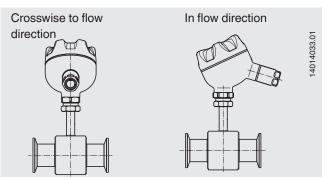
IP ingress protection of the connection head. The IP ingress protection of the complete TR25 instrument does not necessarily have to correspond to the connection head.
 DIH10 LED display
 Ingress protections describing temporary or permanent immersion, on request
 Max. IP65 for cable inlet with M12 x 1 coupler connector (4-pin)

Further thread sizes on request.

Cable inlet with M12 x 1 coupler connector (4-pin)



Position of the cable inlet at the connection head



Transmitter	Model T15	Model T32
Transmitter data sheet	TE 15.01	TE 32.04
Figure		
Analogue output	4 20 mA	 4 20 mA HART[®] protocol
Possible assembly combinations		
BVC	0	0
BVS	0	0
BS	0	-
BSZ / BSZ-K	0	0
BSZ-H / BSZ-HK	•	•
BSS	0	0
BSS-H	•	•

Mounting of 2 transmitters on request

Legend

- O Mounted instead of terminal block
- Mounted within the cover of the connection head
- Mounting not possible

Process connection	
Type of process connection	 Connection for pipes per DIN 11866 row A, B, C Clamp per DIN 32676 Threaded connection per DIN 11851 Threaded connection per DIN 11864-1 form A Threaded connection NEUMO BioConnect[®]
	Other process connections on request
Neck tube	
Neck tube diameter	12 mm [0.47 in]
Neck length N (M _H)	50 mm [1.97 in]
Surface roughness	
Connection to thermometer	Screwed into the connection head (M24 x 1.5)
Material (wetted)	Stainless steel

Process connection

Sealing combination

Transition from the connection head to the thermowell/protection tube is effected via version with sealing combination (polyurethane) of flat gasket and wiper

- Permanently prevents the penetration and depositing of humidity and impurities in this area (IP68)
- Simplifies cleaning considerably (in combination with the patented BVS head and the hygienic cable gland, an easy to clean and hygienic measuring location results, even in non-wetted areas)

Material (wetted)	Stainless steel 1.4435 (316L)
Sealing material	 NBR PTFE EPDM

 \rightarrow For dimensions, see dimension tables from page 11.

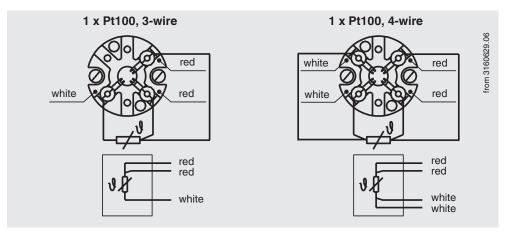
BioControl® is a registered trademark of the company NEUMO.

Output signal (transmitter version)	
Analogue output	
Transmitter models T15, T32	4 20 mA
Transmitter model T32	HART [®] protocol
Factory configuration (transmitter)	→ Customer-specific configuration available on request
Sensor	Pt100
Connection method	3-wire
Measuring range	Measuring range 0 150 °C [32 302 °F]
	Other measuring ranges are adjustable
Time response	
Response time per IEC 60751	t_{50} < 3.2 s or t_{90} < 7.3 s + response time of the respective transmitter ¹⁾ → see data sheet for the respective transmitter

1) Flow-through housing OD 26.9 mm [1.06 in]

For further details on built-in temperature transmitters, see respective transmitter data sheet.

Electrical connection		
Connection type	 1 x Pt100, 3-wire 1 x Pt100, 4-wire 	



For the electrical connections of built-in temperature transmitters, see the corresponding data sheets or operating instructions.

Operating conditions		
Ambient temperature range	-40 +85 °C [-40 +185 °F]	
Storage temperature range	-40 +85 °C [-40 +185 °F]	

Further details on: operating conditions				
IP ingress protection	on per IEC/EN 60529			
First index num- ber	Ingress protection / Short description	Test parameters		
Ingress protections a	Ingress protections against solid foreign bodies (defined by the 1st index number)			
6	Dust-tight	Per IEC/EN 60529		
Ingress protections a	Ingress protections against water (defined by the 2nd index number)			
5	Protected against water jets	Per IEC/EN 60529		
7 1)	Protected against the effects of temporary immersion in water	Per IEC/EN 60529		
8 1)	Protected against the effects of permanent immersion in water	As agreed upon		

1) Ingress protections, describing temporary or permanent immersion, on request

Standard ingress protection of the model TR25 is IP65.

The specified ingress protections apply under the following conditions:

- Use of a suitable cable gland
- Use of a cable cross-section appropriate for the gland or select the appropriate cable gland for the available cable
- Adhere to the tightening torques for all threaded connections

Approvals

Logo	Description	Region
CE	EU declaration of conformity	European Union
	EMC directive ¹⁾ EN 61326 emission (group 1, class B) and immunity (industrial application)	
	Pressure Equipment Directive	
	For thermowells/protection tubes > DN 25 [1"] and for the associated marking on the measuring instrument or thermowell/protection tube, WIKA confirms conformity with the Pressure Equipment Directive in accordance with the conformity assessment procedure, module H.	
	For thermowells/protection tubes with nominal widths of \leq DN 25 [1"], a CE marking in accordance with the Pressure Equipment Directive (PED) is not permitted and therefore, they are designed and manufactured without CE marking in line with the applicable sound engineering practice.	
	RoHS directive	
	UL - only for instrument version without explosion protection Safety (e.g. electr. safety, overpressure,)	USA and Canada

1) Only for built-in transmitter

Optional approvals

Logo	Description		Region
(Ex)	ATEX directive Hazardous areas - Ex i Zone 0 gas Zone 1 gas Zone 20 dust Zone 21 mounting to zone 20 dust Zone 21 dust - Ex e ¹⁾ Zone 1 gas Zone 2 gas Zone 2 gas Zone 2 dust - Ex n ¹⁾ Zone 2 gas Zone 22 dust - Ex n ¹⁾ Zone 2 gas Zone 22 dust	II 1G Ex ia IIC T1 T6 Ga II 2G Ex ia IIC T1 T6 Gb II 1D Ex ia IIIC T125 T65 °C Da II 1/2D Ex ia IIIC T125 T65 °C Da/Db II 2D Ex ia IIIC T125 T65 °C Db II 2G Ex eb IIC T1 T6 Gb 2 II 3G Ex ec IIC T1 T6 Gc X II 2D Ex tb IIIC TX °C Db 2 II 3D Ex tc IIIC TX °C Dc X II 3G Ex nA IIC T1 T6 Gc X II 3D Ex tc IIIC TX °C Dc X	European Union
IEC IECEx	IECEx - in combination with ATEX Hazardous areas - Ex i Zone 0 gas Zone 1 gas Zone 20 dust Zone 21 mounting to zone 20 dust Zone 21 dust	Ex ia IIC T1 T6 Ga Ex ia IIC T1 T6 Gb Ex ia IIIC T125 T65 °C Da Ex ia IIIC T125 T65 °C Da/Db Ex ia IIIC T125 T65 °C Db	International
EHLEX	EAC EMC directive ³⁾ Hazardous areas - Ex i Zone 0 gas	0Ex ia IIC T3/T4/5/T6	Eurasian Economic Com- munity
	Zone 1 gas - Ex n Zone 2 gas	1Ex ib IIC T3/T4/5/T6 2Ex nA IIC T6 T1 Gc X	
Æ	Ex Ukraine Hazardous areas - Ex i Zone 0 gas Zone 1 gas Zone 20 dust Zone 21 dust	II 1G Ex ia IIC T1 T6 Ga II 2G Ex ia IIC T1 T6 Gb II 1D Ex ia IIIC T65°C Da II 2D Ex ia IIIC T65°C Db	Ukraine

Logo	Description		Region
	CCC ²⁾ Hazardous areas - Ex i Zone 0 gas Zone 1 gas Zone 2 gas Zone 20 dust Zone 21 dust	Ex ia IIC T1~T6 Ga Ex ia IIC T1~T6 Gb Ex ic IIC T1~T6 Gc Ex iaD 20 T65/T95/T125 Ex iaD 21 T65/T95/T125	China
ي ۳	KCs Hazardous areas - Ex i Zone 0 gas Zone 1 gas	Ex ia IIC T4 T6 Ex ib IIC T4 T6	Korea
-	PESO Hazardous areas - Ex i Zone 0 gas Zone 1 gas	Ex ia IIC T1 T6 Ga Ex ia IIC T1 T6 Gb	India
ß	PAC Kazakhstan Metrology, measurement technology		Kazakhstan
-	MChS Permission for commissioning		Kazakhstan
-	PAC Ukraine Metrology, measurement technology		Ukraine
	PAC Uzbekistan Metrology, measurement technology		Uzbekistan
	3-A ⁴⁾ Hygienic Design		USA
	EHEDG ⁴⁾ Hygienic Design		European Union

1) Only for connection head: model BSZ, BSZ-H

2) Without transmitter

3) Only for built-in transmitter

4) Confirmation of 3-A or EHEDG conformity only valid with separately selectable 2.2 test report

Instruments marked with "ia" may also be used in areas only requiring instruments marked with "ib" or "ic". If an instrument with "ia" marking has been used in an area with requirements in accordance with "ib" or "ic", it can no longer be operated in areas with requirements in accordance with "ia" afterwards.

Version with explosion protection

The permissible power, P_{max} , as well as the permissible ambient temperature, for the respective category can be seen on the certificate for hazardous areas or in the operating instructions.

The transmitter have their own certificates for hazardous areas. The permissible ambient temperature ranges of the built-in transmitters can be taken from the corresponding transmitter operating instructions and approvals. The system operator is responsible for using suitable thermowells/protection tubes.

Certificates

Certificates					
Certificates	 2.2 test report 3.1 inspection certificate DAkkS calibration certificate, traceable and accredited in accordance with ISO/IEC 17025 Manufacturer's declaration regarding regulation (EC) 1935/2004 Certificate of the surface roughness of wetted parts 				
Hygienic certificates	3-A approval	EHEDG approval			
Clamp	Yes	Yes ²⁾			
BioControl®	Yes	Yes			
DIN 11851	Yes 1)	Yes ²⁾			
DIN 11864-1	Yes	Yes			
DIN 11864-2	Yes	Yes			
DIN 11864-3	Yes	Yes			

In combination with

 ASEPTO-STAR k-flex upgrade gaskets from Kieselmann GmbH, Germany or
 SKS gasket set DIN 11851 EHEDG from Siersema Komponenten Service (S.K.S.) B.V., Netherlands

In combination with T-ring seals from Combifit International B. V., Netherlands

The thermometer is immersed in a liquid bath for calibration.

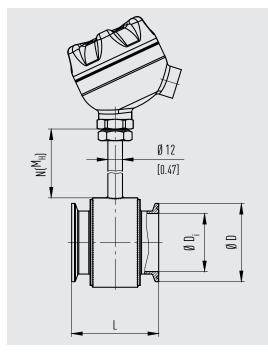
 \rightarrow For approvals and certificates, see website

Patents, property rights

Case with easily cleanable twist crown, integrated into the case cap (GM 000984349)

Dimensions in mm [in]

Version with clamp connection



Legend: N (M_H) Neck length L Insertion length Ø D Inner diameter of pipe

ØD

Clamp fitting

Clamp to DIN 32676 for pipes per DIN 11866, row A

DN	For pipe	Dimensio	Dimensions in mm [in]				
	Outer Ø x wall thick- ness	Ø D _i	L	ØD	[psi] ¹⁾ ^{2) 3)}		
10	13 x 1.5	10 [0.39]	71 [2.8]	34 [1.34]	25 [362.6]		
15	19 x 1.5	16 [0.63]	71 [2.8]	34 [1.34]	25 [362.6]		
20	23 x 1.5	20 [0.79]	71 [2.8]	34 [1.34]	25 [362.6]		
25	29 x 1.5	26 [1.02]	71 [2.8]	50.5 [1.99]	25 [362.6]		
32	35 x 1.5	32 [1.26]	71 [2.8]	50.5 [1.99]	25 [362.6]		
40	41 x 1.5	38 [1.5]	71 [2.8]	50.5 [1.99]	25 [362.6]		
50	53 x 1.5	50 [1.97]	71 [2.8]	64.0 [2.52]	16 [232.1]		

1) For maximum pressure range consider pressure rating of clamp.

2) Maximum operating temperature 150 °C [302 °F]

3) All thermowells/protection tubes of this model series that are internally pressurised, with a nominal diameter (DN) > 25 mm [0.98 in], are manufactured and tested to module H of the Pressure Equipment Directive.

Clamp per DIN 32676 for pipes per DIN 11866, row C (ASME BPE)

DN	For pipe	Dimension	PS in		
	Outer Ø x wall thick- ness	Ø D _i	L	ØD	bar [psi] 1) 2) 3)
3⁄4"	19.05 x 1.65	15.75 [0.62]	71 [2.8]	25 [0.98]	25 [362.6]
1"	25.4 x 1.65	22.1 [0.87]	71 [2.8]	50.5 [1.99]	25 [362.6]
1 1⁄2"	38.1 x 1.65	34.8 [1.37]	71 [2.8]	50.5 [1.99]	25 [362.6]
2"	50.8 x 1.65	47.5 [1.87]	71 [2.8]	64.0 [2.52]	16 [232.1]

1) For maximum pressure range consider pressure rating of clamp.

2) Maximum operating temperature 150 °C [302 °F]

3) All thermowells/protection tubes of this model series that are internally pressurised, with a nominal diameter (DN) > 25 mm [0.98 in], are manufactured and tested to module H of the Pressure Equipment Directive.

Clamp per DIN 32676 for pipes per DIN 11866 row B (ISO 1127)

14053685.02

DN	For pipe	Dimensio	Dimensions in mm [in]				
	Outer Ø x wall thick- ness	Ø D _i	L	ØD	bar [psi] 1) 2) 3)		
8	13.5 x 1.6	10.3 [0.41]	71 [2.8]	25 [0.98]	25 [362.6]		
10	17.2 x 1.6	14.0 [0.55]	71 [2.8]	25 [0.98]	25 [362.6]		
15	21.3 x 1.6	18.1 [0.71]	71 [2.8]	34 [1.34]	25 [362.6]		
20	26.9 x 1.6	23.7 [0.93]	71 [2.8]	50.5 [1.99]	25 [362.6]		
25	33.7 x 2	29.7 [1.17]	71 [2.8]	50.5 [1.99]	25 [362.6]		
32	42.4 x 2	38.4 [1.51]	71 [2.8]	50.5 [1.99]	25 [362.6]		
40	48.3 x 2	44.3 [1.74]	71 [2.8]	64.0 [2.52]	16 [232.1]		

1) For maximum pressure range consider pressure rating of clamp.

2) Maximum operating temperature 150 °C [302 °F]

3) All thermowells/protection tubes of this model series that are internally pressurised, with a nominal diameter (DN) > 25 mm [0.98 in], are manufactured and tested to module H of the Pressure Equipment Directive.

TRI-CLAMP® for pipes per BS4825 part 3 and O.D. tube

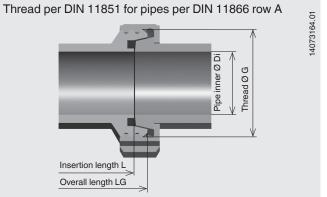
DN	For pipe	pipe Dimensions in mm [in]				
	Outer Ø x wall thick- ness	Ø D _i	L	ØD	[psi] ¹⁾ 2) 3)	
1⁄2"	12.7 x 1.6	9.5 [0.37]	71 [2.8]	25 [0.98]	25 [362.6]	
3⁄4"	19.05 x 1.6	15.85 [0.62]	71 [2.8]	25 [0.98]	25 [362.6]	
1"	25.4 x 1.6	22.2 [0.87]	71 [2.8]	50.5 [1.99]	25 [362.6]	
1 ½"	38.1 x 1.6	34.9 [0.37]	71 [2.8]	50.5 [1.99]	25 [362.6]	
2"	50.8 x 1.6	47.6 [1.87]	71 [2.8]	64.0 [2.52]	16 [232.1]	

1) For maximum pressure range consider pressure rating of clamp.

2) Maximum operating temperature 150 °C [302 °F]

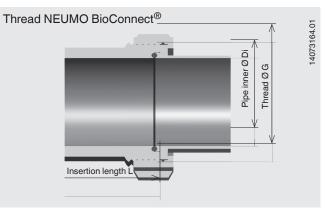
3) All thermowells/protection tubes of this model series that are internally pressurised, with a nominal diameter (DN) > 25 mm [0.98 in], are manufactured and tested to module H of the Pressure Equipment Directive.

Version with threaded connection



DN	For pipe	Dimensi	Dimensions in mm [in]				
	Outer Ø x wall thick- ness	Ø D _i	G	LG	L	[psi] ^{1) 2)}	
10	13 x 1.5	10 [0.39]	Rd 28 x 1/8	84 [3.31]	76 [3.0]	40 [580.2]	
15	19 x 1.5	16 [0.63]	Rd 34 x 1/6	84 [3.31]	76 [3.0]	40 [580.2]	
20	23 x 1.5	20 [0.79]	Rd 44 x 1/6	84 [3.31]	72 [2.84]	40 [580.2]	
25	29 x 1.5	26 [1.02]	Rd 52 x 1/6	84 [3.31]	70 [2.76]	40 [580.2]	
32	35 x 1.5	32 [1.26]	Rd 58 x 1⁄6	84 [3.31]	70 [2.76]	40 [580.2]	
40	41 x 1.5	38 [1.5]	Rd 65 x 1/6	84 [3.31]	70 [2.76]	40 [580.2]	
50	53 x 1.5	50 [1.97]	Rd 78 x 1⁄6	84 [3.31]	70 [2.76]	25 [362.6]	
65	70 x 2	66 [2.6]	Rd 95 x 1⁄6	88 [3.47]	72 [2.84]	25 [362.6]	

1) For maximum pressure range consider pressure rating of clamp. 2) Maximum operating temperature 150 $^\circ C$ [302 $^\circ F]$

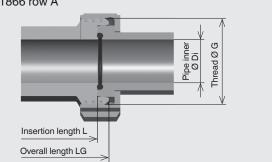


Thread NEUMO BioConnect® for pipes per DIN 11866 row A

DN	For pipe	Dimensi	PS in bar		
	Outer Ø x wall thick- ness	Ø D _i	G	L	[psi] ^{1) 2)}
15	19 x 1.5	16 [0.63]	M30 x 1.5	84 [3.31]	16 [232.1]
20	23 x 1.5	20 [0.79]	M36 x 2	84 [3.31]	16 [232.1]
25	29 x 1.5	26 [1.02]	M42 x 2	84 [3.31]	16 [232.1]
32	35 x 1.5	32 [1.26]	M52 x 2	84 [3.31]	16 [232.1]
40	41 x 1.5	38 [1.5]	M56 x 2	84 [3.31]	16 [232.1]
50	53 x 1.5	50 [1.97]	M86 x 2	84 [3.31]	16 [232.1]
65	70 x 2	66 [2.6]	M90 x 3	88 [3.47]	16 [232.1]

For maximum pressure range consider pressure rating of clamp.
 Maximum operating temperature 150 °C [302 °F]

Thread per DIN 11864-1 form A for pipes per DIN 11866 row A



DN	For pipe	Dimensi	Dimensions in mm [in]				
	Outer Ø x wall thickness	Ø D _i	G	LG	L	[psi] ^{1) 2)}	
10	13 x 1.5	10 [0.39]	Rd 28 x 1/8	84 [3.31]	76 [3.0]	40 [580.2]	
15	19 x 1.5	16 [0.63]	Rd 34 x 1/8	84 [3.31]	76 [3.0]	40 [580.2]	
20	23 x 1.5	20 [0.79]	Rd 44 x 1/6	84 [3.31]	74 [2.91]	40 [580.2]	
25	29 x 1.5	26 [1.02]	Rd 52 x 1/6	84 [3.31]	72 [2.84]	40 [580.2]	
32	35 x 1.5	32 [1.26]	Rd 58 x 1/6	84 [3.31]	70 [2.76]	40 [580.2]	
40	41 x 1.5	38 [1.5]	Rd 65 x 1/6	84 [3.31]	70 [2.76]	40 [580.2]	
50	53 x 1.5	50 [1.97]	Rd 78 x 1/6	84 [3.31]	70 [2.76]	25 [362.6]	
65	70 x 2	66 [2.6]	Rd 95 x 1⁄6	88 [3.47]	72 [2.84]	25 [362.6]	

1) Maximum operating temperature 150 °C [302 °F]

2) All thermowells/protection tubes of this model series that are internally pressurised, with a nominal diameter (DN) > 25 mm [0.98 in], are manufactured and tested to module H of the Pressure Equipment Directive.

Flange connections, clamp connections and further nominal widths on request.

Thread NEUMO BioConnect[®] for pipes per DIN 11866 row B (ISO 1127)

DN	For pipe	Dimension	s in mm [in]		PS ¹⁾²⁾
	Outer Ø x wall thickness	Ø D _i	G	L	
15	21.3 x 1.6	18.1 [0.71]	M30 x 1.5	84 [3.31]	16 [232.1]
20	26.9 x 1.6	23.7 [0.93]	M36 x 2	84 [3.31]	16 [232.1]
25	33.7 x 2	29.7 [1.17]	M42 x 2	84 [3.31]	16 [232.1]
32	42.4 x 2	38.4 [1.51]	M52 x 2	84 [3.31]	16 [232.1]
40	48.3 x 2	44.3 [1.74]	M56 x 2	84 [3.31]	16 [232.1]
50	60.3 x 2	56.3 [2.22]	M86 x 2	84 [3.31]	16 [232.1]
65	76.1 x 2.3	71.5 [2.82]	M90 x 3	88 [3.47]	16 [232.1]

1) Maximum operating temperature 150 °C [302 °F]

2) All thermowells/protection tubes of this model series that are internally pressurised, with a nominal diameter (DN) > 25 mm [0.98 in], are manufactured and tested to module H of the Pressure Equipment Directive.

Ordering information

Model / Explosion protection / Connection head / Female thread on connection head / Terminal block, transmitter / Position of the cable inlet / Process connection / Material of wetted parts / Surface roughness / Insertion length / Neck tube length / Measuring element / Connection method / Temperature range / Certificates

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