

Pressure Measurement

Pressure transmitters

Single-range transmitters for general applications

SITRANS P Compact for gauge and absolute pressure

1

Overview



The SITRANS P Compact pressure transmitter is designed for the special requirements of the food, pharmaceutical and biotechnology industries.

The use of high-grade materials guarantees compliance with hygiene regulations.

Particular value has been placed on a high surface quality. The system can be electropolished in addition.

A further important feature is the hygiene-based design of the process connection by means of various aseptic connections.

The completely welded stainless steel enclosure can be designed up to degree of protection IP67.

Using appropriate thermal decouplers, the SITRANS P Compact pressure transmitter can be used for process temperatures up to 200 °C (392 °F).

Benefits

- Measuring ranges from 0 to 160 mbar (0 to 2.32 psi) to 0 to 40 bar (0 to 580 psi)
- Linearity error including hysteresis < +0.2 % of the end value
- Piezo-resistive measurement system, vacuum-proof and overload-proof
- Hygiene-based design according to EHEDG, FDA and GMP recommendations
- Material and surface quality according to hygiene requirements
- Wetted parts made of stainless steel; completely welded
- Signal output 4 to 20 mA (0 to 20 mA as option)
- Stainless steel enclosure with degree of protection IP65 (IP67 as option)
- Process temperature up to 200 °C (392 °F)
- Explosion protection II 2G Ex [ib] IIC T6 to ATEX
- Easy and safe to clean

Application

The SITRANS P Compact pressure transmitter is designed for the special requirements of the food, pharmaceutical and biotechnology industries.

The use of high-grade materials guarantees compliance with hygiene regulations.

The SITRANS P Compact pressure transmitter is available in many versions. Exact adaptation of the pressure transmitter to conditions at the place of use is thus possible

Design

The electronics is potted to protect it against moisture, corrosive atmospheres and vibration.

Notes on operating the pressure transmitter

Compensation of internal atmospheric pressure

Compensation of the internal atmospheric pressure of the SITRANS P Compact pressure transmitters is performed as follows:

- in the plug versions by means of the screwed gland (IP65)
- in the field enclosures by means of an integral sintered filter (IP65) or a vented cable (IP67)
- in versions with cable outlet by means of a vented cable (IP67)

In the absolute pressure range there is no need for compensation with respect to atmospheric pressure.

Note: These degrees of protection are only achieved under the following conditions:

- if the pressure transmitter is installed correctly
- if the screwed glands are securely tightened
- if the cable diameters agree with the nominal diameters of the gaskets in the enclosure

Note: The integral EMC measures are only effective if the earth connection is made correctly.

CE marking

The CE marking of the pressure transmitter certifies compliance with the guidelines of the European Council (9/336/EC), the EMC law (13.11.1992), as well as the applicable generic standards.

Interference-free operation in systems and plants is achieved only if the specifications for shielding, earthing, cable routing and electrical isolation are observed during installation and assembly.

Hazardous areas

Note: Electrical equipment in hazardous areas must only be installed and operated by trained personnel.

Modifications to units and connections result in cancellation of the explosion protection and guarantee.

With intrinsically-safe circuits, make sure that equipotential bonding exists throughout the complete cabling inside and outside of the hazardous area. The limits specified in the ATEX approval must be observed.

Function

The process pressure acts on a piezo-resistive semiconductor measuring bridge through a remote seal and a transmission liquid. The pressure transmitter converts the pressure values into a load-independent current.

A compensation network makes the output signal largely independent of the ambient temperature. As a result of a specially adapted remote seal connection with minimized volume, the influence of the process temperature on the output signal is greatly reduced compared to a conventional screw connection.

The pressure transmitters can be powered with a non-regulated DC voltage of 10 to 30 V. Output signals common to measuring technology are available.

Technical specifications**Pressure transmitters for food, pharmaceuticals and biotechnology****Mode of operation**

Measuring principle	piezo-resistive
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Input

Measured variable	gauge or absolute pressure
Measuring range	0 ... 160 mbar (0 ... 2.32 psi) ... 0 ... 40 bar (0 ... 580 psi)

Output

Output signal	
• 2-wire system	4 ... 20 mA
• Three-wire system	0 ... 20 mA

Measuring accuracy

Acc. to IEC 60770-1	
Error in measurement at limit setting incl. hysteresis and reproducibility	≤ 0.2 % of upper range value
Adjustment accuracy	≤ ± 0.2 % of upper range value
Step response time	< 20 ms
Influence of ambient temperature	
On the enclosure	
• Zero point	< 0.2 %/10 K of upper range value
• Measuring span	< 0.2 %/10 K of upper range value
On the process connection (remote seals)	
• Flange remote seal	Zero error (depends on design)
- DN 25 / 1"	4.8 mbar/10 K (0.069 psi/10 K)
- DN 32 / 1¼"	2.3 mbar/10 K (0.033 psi/10 K)
- DN 40 / 1½"	1.6 mbar/10 K (0.023 psi/10 K)
- DN 50 / 2"	0.6 mbar/10 K (0.009 psi/10 K)
• Inline seal	
- DN 25 / 1"	9.5 mbar/10 K (0.14 psi/10 K)
- DN 32 / 1¼"	4.1 mbar/10 K (0.06 psi/10 K)
- DN 40 / 1½"	3.9 mbar/10 K (0.05 psi/10 K)
- DN 50 / 2"	3.9 mbar/10 K (0.05 psi/10 K)

The zero error specified for the process connection should be considered as a guideline for a standard design. We will produce a detailed system calculation on request. Systems with reduced remote seal errors are available on request.

Operating conditions

Installation conditions	
• Mounting position	Any, vertical as standard
Ambient conditions	
• Ambient temperature	-10 ... +70 °C (14 ... 158 °F)
• Storage temperature	-10 ... +90 °C (14 ... 194 °F)
• Process temperature	Max. 200 °C (392 °F), depending on design
Vacuum-resistant	0 mbar (0 psi) absolute at max. 50 °C. Higher process temperatures on request.
• Degree of protection (to EN 60529)	IP65, optional IP67
• Electromagnetic Compatibility	
- Emitted interference	To EN 50081 Part 1, issue 1993 (residential and industrial areas). The unit has no own emissions.
- Noise immunity to	EN 50082 Part 2, issue March 1995 (industrial areas)

Design

Weight (without remote seal)	
• Field enclosure	≈ 460 G (≈ 1.01 (lb))
• Enclosure with plug	≈ 200 g (≈ 0.44 lb)
Enclosure	
• Designs	<ul style="list-style-type: none"> • Field enclosure IP65 or IP67, with screwed gland • Angled plug DIN 43650, IP65 • Cable connection, IP67 • Device plug M12, IP65
• Material	Stainless steel, mat. no. 1.4404/316L/1.4305
Material of union nut	Polyamide (with electrical connection using plug or cable) Electronics unit potted with silicone Internal ventilation for measuring ranges < 16 bar (< 232 psi), through enclosure thread or connection cable depending on design
Process connection	
• Versions	See ordering data
• Material of coupling	Stainless steel, mat. no. 1.4404/316L

Power supply

Terminal voltage on transmitter	10 ... 30 V DC
Rated voltage	24 V DC

Certificates and approvals

Classification according to pressure equipment directive (PED 2014/68/EU)	
• For 7MF8010-1... (with diaphragm seal)	For gases of fluid group 1 and liquids of fluid group 1; complies with requirements of article 4, paragraph 3 (sound engineering practice)
• For 7MF8010-2... (with inline seal)	For gases of fluid group 1 and liquids of fluid group 1; complies with the requirements of article 4, paragraph 1 (appendix 1); assigned to category III, conformity evaluation module H by the TÜV Nord

Explosion protection

• Intrinsic safety "i"	TÜV 03 ATEX 2099 X
- Marking	Ex II 2G Ex ib IIC T6

Selection and Ordering data		Article No.	Ord. code	Selection and Ordering data		Article No.	Ord. code
SITRANS P Compact pressure transmitters for pressure and absolute pressure with diaphragm flush at front		7MF8010-		SITRANS P Compact pressure transmitters for pressure and absolute pressure with diaphragm flush at front		7MF8010-	
2-wire system Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of upper range value Output 4 ... 20 mA				2-wire system Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of upper range value Output 4 ... 20 mA			
Enclosure design (stainless steel mat. No. 1.4404/316L) / electr. connection				Measured range			
Enclosure with angled plug to DIN 43650, IP65		1		(continued)			
Enclosure with device plug M12, IP65, union nut made of polyamide		2		-1 ... +9 bar (-14.5 ... +130.5 psi)	60 bar (870 psi)	GA	
Enclosure with device plug M12, IP65, union nut made of stainless steel		3		-1 ... +15 bar (-14.5 ... +217.6 psi)	60 bar (870 psi)	GB	
Stainless steel field enclosure (small) with cable gland, IP65		4		0 ... 1 bar a (0 ... 14.5 psi a)	3 bar a (43.5 psi a)	HA	
Stainless steel field enclosure (small) with cable gland, IP67		5		0 ... 1.6 bar a (0 ... 23.2 psi a)	10 bar (145 psi)	HB	
Internal ventilation for measuring ranges < 16 bar (< 232 psi)				0 ... 2.5 bar a (0 ... 36.3 psi a)	10 bar a (145 psi a)	HC	
Measured range				0 ... 4 bar a (0 ... 58 psi a)	10 bar a (145 psi a)	HD	
Overload pressure				0 ... 6 bar a (0 ... 87 psi a)	60 bar a (870 psi a)	HE	
0 ... 160 mbar (0 ... 2.32 psi)	1 bar (14.5 psi)	BB		0 ... 10 bar a (0 ... 145 psi a)	60 bar a (870 psi a)	JA	
0 ... 250 mbar (0 ... 3.63 psi)	1 bar (14.5 psi)	BC		Special version (add Order code and plain text)		ZA	P1Y
0 ... 400 mbar (0 ... 5.8 psi)	3 bar (43.5 psi)	BD		Explosion protection			
0 ... 600 mbar (0 ... 8.7 psi)	3 bar (43.5 psi)	BE		without		1	
0 ... 1 bar (0 ... 14.5 psi)	3 bar (43.5 psi)	CA		with, to ATEX 100a, II 2 G, Ex ib IIC T6		2	
0 ... 1.6 bar (0 ... 23.2 psi)	10 bar (145 psi)	CB		Further designs			Order code
0 ... 2.5 bar (0 ... 36.3 psi)	10 bar (145 psi)	CC		Please add "-Z" to Article No. and specify Order code			
0 ... 4 bar (0 ... 58 psi)	20 bar (290 psi)	CD		Hygiene version			P01
0 ... 6 bar (0 ... 87 psi)	60 bar (870 psi)	CE		Roughness of process connection: Foil $R_a < 0.8 \mu\text{m}$ ($3.15 \cdot 10^{-8}$ inch); Welded seams $R_a < 1.5 \mu\text{m}$ ($5.9 \cdot 10^{-8}$ inch)			
0 ... 10 bar (0 ... 145 psi)	60 bar (870 psi)	DA		Integral cooling element			K01
0 ... 16 bar (0 ... 232 psi)	60 bar (870 psi)	DB		Process temperature max. 200 °C (392 °F) instead of 140 °C (284 °F)			
0 ... 25 bar (0 ... 363 psi)	60 bar (870 psi)	DC		Connections for pipe			
0 ... 40 bar (0 ... 580 psi)	100 bar (1450 psi)	DD		Pipes to DIN 11850			R01
-160 ... 0 mbar (-2.32 ... 0 psi)	1 bar (14.5 psi)	EB		ISO pipes to DIN 2463			R02
-250 ... 0 bar (-3.73 ... 0 psi)	1 bar (14.5 psi)	EC		Pipes to O. D. Tubing "BS 4825 Part 1"			R03
-400 ... 0 bar (-5.8 ... 0 psi)	3 bar (43.5 psi)	ED		Certificates			
-600 ... 0 bar (-8.7 ... 0 psi)	3 bar (43.5 psi)	EE		Quality test certificate, 5-point factory calibration (IEC 60770-2)			C11
-1 ... 0 bar (-14.5 ... 0 psi)	3 bar (43.5 psi)	FA		Inspection certificate to EN 10204-3.1			C12
-1 ... 0.6 bar (-14.5 ... 8.7 psi)	10 bar (145 psi)	FB		Use of FDA-listed remote seal filling liquids certified by factory certificate according to EN 10204-2.2			C17
-1 ... 1.5 bar (-14.5 ... 21.8 psi)	10 bar (145 psi)	FC		Roughness depth measurement R_a certified by factory certificate according to EN 10204-3.1			C18
-1 ... 3 bar (-14.5 ... 43.5 psi)	20 bar (290 psi)	FD		Certification to EHEDG for inline seals with aseptic screwed gland to DIN 11864			C19
-1 ... 5 bar (-14.5 ... 72.5 psi)	20 bar (290 psi)	FE					

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Selection and Ordering data

SITRANS P Compact pressure transmitters for pressure and absolute pressure with inline seal Article No. **7MF8010 -** Ord. code

2-wire system
Process temperature up to 140 °C (284 °F)
Accuracy: 0.2 % of upper range value
Output 4 ... 20 mA

➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Inline seal (screwed gland at both ends) with quick-release clamps

Milk pipe union to DIN 11851 with threaded socket

- DN 25
- DN 32
- DN 40
- DN 50
- DN 65

Clamp connection to DIN 32676

- DN 25
- DN 32
- DN 40
- DN 50
- DN 65

Clamp connection to ISO 2852¹⁾

- 1 inch
- 1½ inch
- 2 inch
- 2½ inch

Special version
(add Order code and plain text)

Filling liquid

Food oil, FDA-listed

Special version
(add Order code and plain text)

Output signal

4 ... 20 mA

Special version
(add Order code and plain text)

¹⁾ Please note the internal diameter of the pipe. Please specify pipe classes (see "Further designs")

Article No. **7MF8010 -** Ord. code

2

AD
AE
AF
AG
AHCD
CE
CF
CG
CHDM
DN
DP
DQ
ZA

J 1 Y

3

9

L 1 Y

1

M 1 Y

Selection and Ordering data

SITRANS P Compact pressure transmitters for pressure and absolute pressure with inline seal Article No. **7MF8010 -** Ord. code

2-wire system
Process temperature up to 140 °C (284 °F)
Accuracy: 0.2 % of upper range value
Output 4 ... 20 mA

Inline seal with aseptic connection

Aseptic screwed gland to DIN 11864-1, form A with threaded socket

- 1 inch
- 1½ inch
- 2 inch

Aseptic screwed NEUMO with threaded socket¹⁾

- DN 25
- DN 32
- DN 40
- DN 50
- DN 65

Aseptic screwed NEUMO with clamp connection, form R¹⁾

- DN 25
- DN 32
- DN 40
- DN 50

Aseptic screwed gland SÜDMO with threaded socket W 501¹⁾

- 1 inch
- 1½ inch
- 2 inch

Aseptic screwed gland SÜDMO with clamp connection W 601¹⁾

- 1 inch
- 1½ inch
- 2 inch

Special version
(add Order code and plain text)

Filling liquid

Food oil, FDA-listed

Medicinal white oil

Special version
(add Order code and plain text)

Output signal

4 ... 20 mA

Special version
(add Order code and plain text)

¹⁾ Please specify as well: Connections for pipes: R01, R02 or R03, see table "Further designs" on next page

Article No. **7MF8010 -** Ord. code

2

QM
QN
QPSD
SE
SF
SG
SHTD
TE
TF
TGVM
VN
VPWM
WN
WP

ZA

J 1 Y

3

2

9

L 1 Y

1

9

M 1 Y

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Article No.	Ord. code
SITRANS P Compact pressure transmitters for pressure and absolute pressure with inline seal	7MF8010-		SITRANS P Compact pressure transmitters for pressure and absolute pressure with inline seal	7MF8010-	
2-wire system Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of upper range value Output 4 ... 20 mA	2		2-wire system Process temperature up to 140 °C (284 °F) Accuracy: 0.2 % of upper range value Output 4 ... 20 mA	2	
Enclosure design (stainless steel mat. No. 1.4404/316L) / electr. connection			Measured range Overload pressure (continued)		
Enclosure with angled plug to DIN 43650, IP65, union nut made of polyamide	1		-1 ... 9 bar (-14.5 ... 130.5 psi)	60 bar (870 psi)	GA
Enclosure with device plug M12, IP65, union nut made of polyamide	2		-1 ... 15 bar (-14.5 ... 217.6 psi)	60 bar (870 psi)	GB
Enclosure with device plug M12, IP65, union nut made of stainless steel	3		0 ... 1 bar a (0 ... 14.5 psi a)	3 bar a (43.5 psi a)	HA
Stainless steel field enclosure (small) with cable gland, IP65	4		0 ... 1.6 bar a (0 ... 23.2 psi a)	10 bar (145 psi)	HB
Stainless steel field enclosure (small) with cable gland, IP67	5		0 ... 2.5 bar a (0 ... 36.3 psi a)	10 bar a (145 psi a)	HC
Internal ventilation for measuring ranges < 16 bar (< 232 psi)			0 ... 4 bar a (0 ... 58 psi a)	10 bar a (145 psi a)	HD
Measured range Overload pressure			0 ... 6 bar a (0 ... 87 psi a)	60 bar a (870 psi a)	HE
0 ... 160 mbar (0 ... 2.32 psi)	1 bar (14.5 psi)	BB	0 ... 10 bar a (0 ... 145 psi a)	60 bar a (870 psi a)	JA
0 ... 250 mbar (0 ... 3.63 psi)	1 bar (14.5 psi)	BC	Special version (add Order code and plain text)		ZA P 1 Y
0 ... 400 mbar (0 ... 5.8 psi)	3 bar (43.5 psi)	BD	Explosion protection		
0 ... 600 mbar (0 ... 8.7 psi)	3 bar (43.5 psi)	BE	without	1	
0 ... 1 bar (0 ... 14.5 psi)	3 bar (43.5 psi)	CA	with, to ATEX 100a, II 2 G, Ex ib IIC T6	2	
0 ... 1.6 bar (0 ... 23.2 psi)	10 bar (145 psi)	CB	Further designs	Order code	
0 ... 2.5 bar (0 ... 36.3 psi)	10 bar (145 psi)	CC	Please add "-Z" to Article No. and specify Order code		
0 ... 4 bar (0 ... 58 psi)	20 bar (290 psi)	CD	Hygiene version	P01	
0 ... 6 bar (0 ... 87 psi)	60 bar (870 psi)	CE	Roughness of process connection: Foil $R_a < 0.8 \mu\text{m}$ ($3.15 \cdot 10^{-8}$ inch); Welded seams $R_a < 1.5 \mu\text{m}$ ($5.9 \cdot 10^{-8}$ inch)		
0 ... 10 bar (0 ... 145 psi)	60 bar (870 psi)	DA	Integral cooling element	K01	
0 ... 16 bar (0 ... 232 psi)	60 bar (870 psi)	DB	Process temperature max. 200 °C (392 °F) instead of 140 °C (284 °F)		
0 ... 25 bar (0 ... 363 psi)	60 bar (870 psi)	DC	Connections for pipe		
0 ... 40 bar (0 ... 580 psi)	100 bar (1450 psi)	DD	Pipes to DIN 11850	R01	
-160 ... 0 mbar (-2.32 ... 0 psi)	1 bar (14.5 psi)	EB	ISO pipes to ISO 2463	R02	
-250 ... 0 bar (-3.73 ... 0 psi)	1 bar (14.5 psi)	EC	Pipes to O. D. Tubing "BS 4825 Part 1"	R03	
-400 ... 0 bar (-5.8 ... 0 psi)	3 bar (43.5 psi)	ED	Certificates		
-600 ... 0 bar (-8.7 ... 0 psi)	3 bar (43.5 psi)	EE	Quality test certificate, 5-point factory calibration (IEC 60770-2)	C11	
-1 ... 0 bar (-14.5 ... 0 psi)	3 bar (43.5 psi)	FA	Inspection certificate to EN 10204-3.1	C12	
-1 ... 0.6 bar (-14.5 ... 8.7 psi)	10 bar (145 psi)	FB	Use of FDA-listed remote seal filling liquids certified by factory certificate according to EN 10204-2.2	C17	
-1 ... 1.5 bar (-14.5 ... 21.8 psi)	10 bar (145 psi)	FC	Roughness depth measurement R_a certified by factory certificate according to EN 10204-3.1	C18	
-1 ... 3 bar (-14.5 ... 43.5 psi)	20 bar (290 psi)	FD	Certification to EHEDG for inline seals with aseptic screwed gland to DIN 11864	C19	
-1 ... 5 bar (-14.5 ... 72.5 psi)	20 bar (290 psi)	FE			

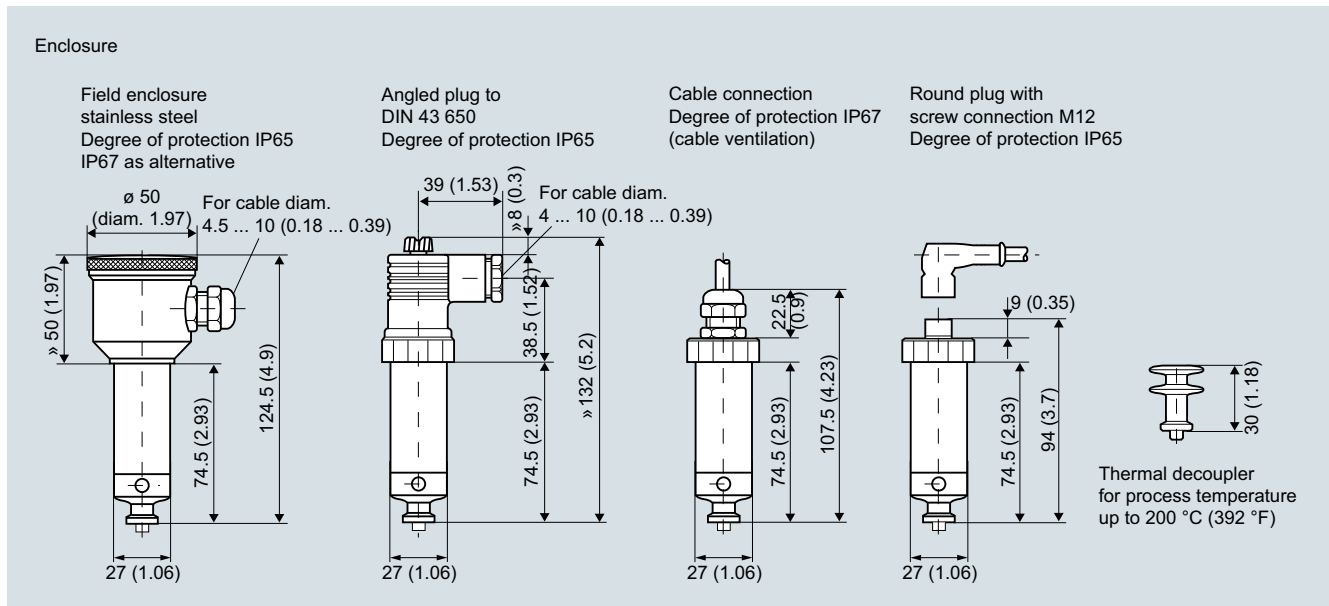
Pressure Measurement

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Dimensional drawings



SITRANS P Compact, dimenclosureensions in mm (inch)

Process connections

Diaphragm seal with quick-release clamp

Milk pipe union to DIN 11851 with slotted union nut

DN	PN	H mm (inch)	G
25	40	24 (0.95)	Rd. 52 x 1/6"
32	40	24 (0.95)	Rd. 58 x 1/6"
40	40	24 (0.95)	Rd. 65 x 1/6"
50	25	25.1 (0.99)	Rd. 78 x 1/6"
65	25	28.6 (1.13)	Rd. 95 x 1/6"

Milk pipe union to DIN 11851 with threaded socket

DN	PN	H mm (inch)	G
25	40	-	Rd. 52 x 1/6"
32	40	20 (0.79)	Rd. 58 x 1/6"
40	40	20 (0.79)	Rd. 65 x 1/6"
50	25	20 (0.79)	Rd. 78 x 1/6"
65	25	22 (0.87)	Rd. 95 x 1/6"

Clamp connection to DIN 32676

DN	PN	H mm (inch)	D mm (inch)
25	16	14 (0.55)	50.5 (2)
40	16	14 (0.55)	50.5 (2)
50	16	14 (0.55)	64 (2.52)

Clamp connection to ISO 2852

DN	PN	H mm (inch)	D mm (inch)
1"	16	14 (0.55)	50.5 (2)
1½"	16	12 (0.47)	50.5 (2)
2"	16	14 (0.55)	64 (2.52)
2½"	16	14 (0.55)	77.5 (3.05)

IDF standard with slotted union nut

DN	PN	H mm (inch)	G inch (IDF thread)
1"	40	21 (0.83)	1"
1½"	40	13.5 (0.53)	1½"
2"	25	15 (0.59)	2"

IDF standard with threaded socket

DN	PN	H mm (inch)	G inch (IDF thread)
1"	40	21 (0.83)	1"
1½"	40	13.5 (0.53)	1½"
2"	25	15 (0.59)	2"

SMS standard with slotted union nut

DN	PN	H mm (inch)	G
1"	40	16 (0.63)	Rd 40 x 1.6"
1½"	40	16 (0.63)	Rd 60 x 1.6"
2"	25	16 (0.63)	Rd 70 x 1.6"

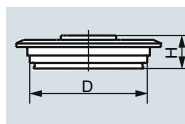
SMS standard with threaded socket

DN	PN	H mm (inch)	G
1"	40	16 (0.63)	Rd 40 x 1.6"
1½"	40	20 (0.79)	Rd 60 x 1.6"
2"	25	20 (0.79)	Rd 70 x 1.6"

DRD flange, without welding-type flange

DN	PN	H mm (inch)	D mm (inch)
50	40	16.7 (0.66)	65.5 (2.58)

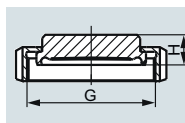
Varivent connection



DN	PN	H mm (inch)	D mm (inch)
25	25	19 (0.75)	50 (1.97)
40 ... 125	25/10	19 (0.75)	68 (2.68)

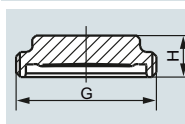
Diaphragm seal with aseptic connection

Aseptic screwed gland to DIN 11864-1, form A, with slotted union nut



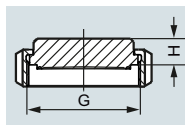
DN	PN	H mm (inch)	G
1"	40	20 (0.79)	Rd 52 x 1/6"
1½"	40	20 (0.79)	Rd 58 x 1/6"
2"	25	20 (0.79)	Rd 65 x 1/6"
2½"	25	20 (0.79)	Rd 78 x 1/6"

Aseptic screwed gland to DIN 11864-1, form A, with threaded socket



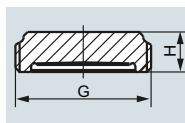
DN	PN	H mm (inch)	G
1"	40	15 (0.59)	Rd 52 x 1/6"
1½"	40	15 (0.59)	Rd 58 x 1/6"
2"	25	15 (0.59)	Rd 65 x 1/6"
2½"	25	15 (0.59)	Rd 78 x 1/6"

Aseptic screwed NEUMO BioConnect with slotted union nut



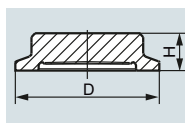
DN	PN	H mm (inch)	G
25	16	15 (0.59)	M 42 x 2
32	16	15 (0.59)	M 52 x 2
40	16	15 (0.59)	M 56 x 2
50	16	15 (0.59)	M 68 x 2

Aseptic screwed NEUMO BioConnect with threaded socket



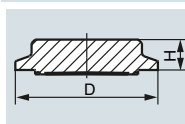
DN	PN	H mm (inch)	G
25	16	20 (0.79)	M 42 x 2
32	16	20 (0.79)	M 52 x 2
40	16	20 (0.79)	M 56 x 2
50	16	20 (0.79)	M 68 x 2

Aseptic screwed NEUMO BioConnect with clamp connection, form R



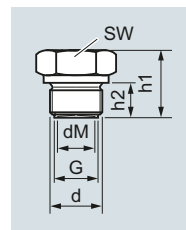
DN	PN	H mm (inch)	D mm (inch)
25	40	20 (0.79)	50.5 (2)
32	40	20 (0.79)	50.5 (2)
40	40	20 (0.79)	64 (2.52)
50	25	20 (0.79)	77.4 (3.05)

Aseptic screwed NEUMO BioConnect with clamp connection, form V



DN	PN	H mm (inch)	D mm (inch)
25	40	15 (0.59)	50.5 (2)
32	40	15 (0.59)	50.5 (2)
40	40	15 (0.59)	64 (2.52)
50	25	15 (0.59)	77.4 (3.05)

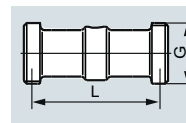
Male thread DIN 3852, form A



G	d mm (inch)	d _M mm (inch)	h ₁ mm (inch)	h ₂ mm (inch)	SW mm (inch)
G½A	26 (1.02)	17.5 (0.69)	27 (1.06)	14 (0.55)	27 (1.06)
G¾A	32 (1.26)	22.6 (0.89)	31 (1.22)	16 (0.63)	32 (1.26)
G1A	39 (1.54)	27 (1.06)	33 (1.30)	18 (0.71)	51 (2.01)
G1½A	55 (2.17)	40 (1.57)	40 (1.57)	22 (0.87)	55 (2.17)
G2A	68 (2.68)	51 (2.00)	42 (1.65)	24 (0.94)	70 (2.76)

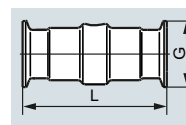
Inline seal (screwed gland at both ends) with quick-release clamps

Milk pipe union to DIN 11851 with threaded socket



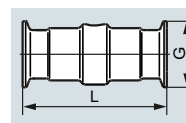
DN	PN	L mm (inch)	G
25	40	110 (4.33)	Rd 52 x 1/6"
32	40	110 (4.33)	Rd 58 x 1/6"
40	40	110 (4.33)	Rd 65 x 1/6"
50	25	110 (4.33)	Rd 78 x 1/6"
65	25	110 (4.33)	Rd 95 x 1/6"

Clamp connection to DIN 32676



DN	PN	L mm (inch)	D mm (inch)
25	16	110 (4.33)	50.5 (2)
32	16	110 (4.33)	50.5 (2)
40	16	110 (4.33)	50.5 (2)
50	16	110 (4.33)	64 (2.52)
65	10	110 (4.33)	91 (3.58)

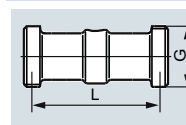
Clamp connection to ISO 2852



DN	PN	L mm (inch)	D mm (inch)
1"	16	110 (4.33)	50.5 (2)
1½"	16	110 (4.33)	50.5 (2)
2"	16	110 (4.33)	64 (2.52)
2½"	16	110 (4.33)	91 (3.58)

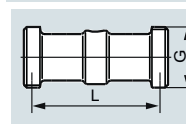
Inline seal with aseptic connection

Aseptic screwed gland to DIN 11864-1, form A, with threaded socket



DN	PN	L mm (inch)	G
1"	40	110 (4.33)	Rd 52 x 1/6"
1½"	40	110 (4.33)	Rd 65 x 1/6"
2"	25	110 (4.33)	Rd 78 x 1/6"

Aseptic screwed NEUMO BioConnect with threaded socket



DN	PN	L mm (inch)	G
25	16	110 (4.33)	M 42 x 2
32	16	110 (4.33)	M 52 x 2
40	16	110 (4.33)	M 56 x 2
50	16	110 (4.33)	M 68 x 2
65	16	110 (4.33)	M 90 x 3

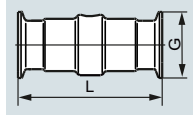
Pressure Measurement

Pressure transmitters

Single-range transmitters for general applications

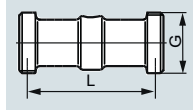
SITRANS P Compact for gauge and absolute pressure

Aseptic screwed NEUMO BioConnect with clamp connection, form R



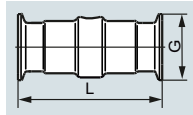
DN	PN	L mm (inch)	D mm (inch)
25	16	110 (4.33)	50.4 (2)
32	16	110 (4.33)	50.4 (2)
40	16	110 (4.33)	64 (2.52)
50	16	110 (4.33)	77.4 (3.05)

Aseptic screwed gland SÜDMO with threaded socket W 501



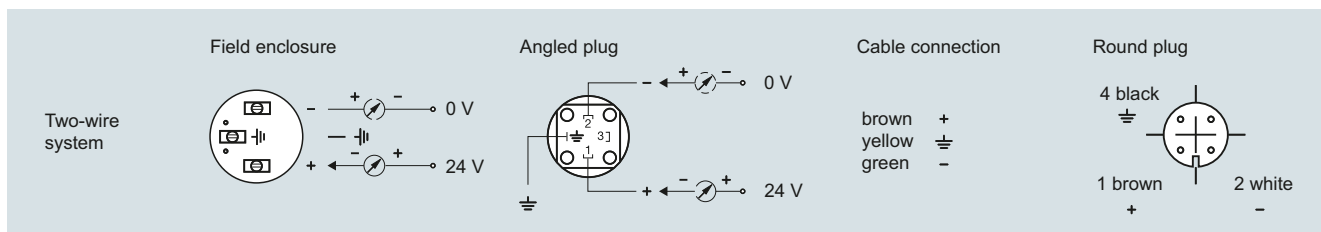
DN	PN	L mm (inch)	G
1"	25	110 (4.33)	Rd 44 x 1/6"
1½"	25	110 (4.33)	Rd 58 x 1/6"
2"	20	110 (4.33)	Rd 78 x 1/6"

Aseptic screwed gland SÜDMO with threaded socket W 601



DN	PN	L mm (inch)	D mm (inch)
1"	16	110 (4.33)	50.5 (2)
1½"	16	110 (4.33)	64 (2.52)
2"	16	110 (4.33)	77.5 (3.05)

Schematics



SITRANS P Compact, connection diagram