

Bourdon tube pressure gauge, article D21 (For the process industry) Connection G 1/4" and G 1/2"

This high-quality Bourdon tube pressure gauge has been designed especially for the process industry. The use of high-quality stainless steel materials and the robust design are geared to applications in the chemical and process engineering industries. Thus the instrument is suitable for liquid and gaseous media, also in aggressive environments.

- ☞ **Connection below G 1/4" body size Ø 63,0 mm**
- ☞ **Connection below G 1/2" body size Ø 100,0 mm and Ø 160,0 mm**
- ☞ **Connection back G 1/4" body size Ø 63,0**
- ☞ **Connection back G 1/2" body size Ø 100,0 mm**

This instrument has as safety function a blow-out device with blow-out plug on the back of the case. In the event of a failure, overpressure can escape there.

The model D21 with liquid-filled case is suitable for high dynamic pressure loads and vibrations.



	Ambient	-20°C ... +60°C
	Medium	-20°C ... +100°C

Applications:

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive environments
- Chemical and petrochemical industries, oil and gas industry, power engineering and also water and wastewater technology
- Machine building and general plant construction

Special features:

- Excellent load-cycle stability and shock resistance
- With case filling for applications dynamic pressure loads and vibrations
- Completely from stainless steel
- Scale ranges up to 0 ... 400 bar
- Design per EN 837-1
- Nominal size Ø 63, Ø 100, Ø 160

Specification

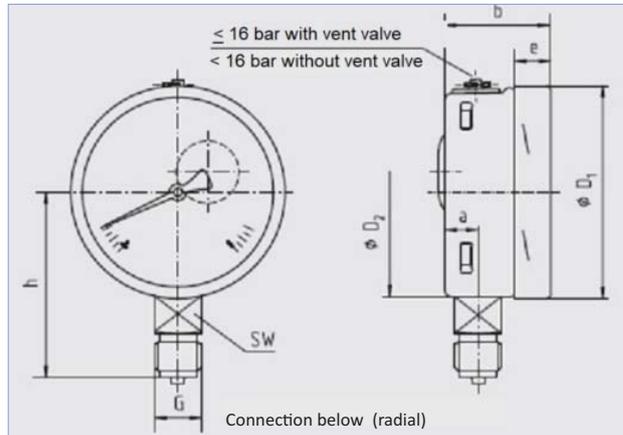
Accuracy class	Ø 63: 1,6	Ø 100, Ø 160: 1,0
Pressure limitation	Ø 63: Steady 3/4 x full scale value Fluctuating 2/3 x full scale value Short time full scale value	Ø 100, Ø 160: Steady full scale value Fluctuating 0,9 x full scale value Short time 1,3 x full scale value
Process connection	Ø 63: CrNi-Stahl 1.4571 (316Ti)	Ø 100, Ø 160: Stainless steel 1.4404 (316L)
Window	Ø 63: Polycarbonate	Ø 100, Ø 160: Laminated safety glass
Pressure element	Stainless steel 1.4404 (316L) C-type or helical type	
Movement	Stainless steel	
Dial	Aluminium, white, scale black, Ø 63 with stop pin	
Scale	Aluminium, black	
Ring	Bayonet ring, stainless steel	
Case filling	Glycerine	
Case	Stainless steel Ø 63 With blow-out device at case circumference, 12 o'clock Ø 100, Ø 160 With blow-out device on the back of the case Scale ranges ≤ 0 ... 16 bar with compensating valve to vent and reseal case	

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(For the process industry)

Connection G 1/4" and G 1/2"

NS 63, NS 100, NS 160



Diameter NS	Connection below G	Article-No.:	Dimension in mm								
			Connection below radial	a	b	D ₁	D ₂	e	h ± 1,0	SW	Weight (kg)
63	G 1/4"	325.4139.6.61-x		9,5	33,0	63,0	62,0	12,6	54,0	14,0	0,16
100	G 1/2"	325.4141.6.63-x		15,5	49,5	101,0	99,0	17,5	87,0	22,0	0,60
160	G 1/2"	325.4142.6.63-x		15,5	49,5	161,0	159,0	17,5	118,0	22,0	1,10

Scale ranges D21 below radial								
Article addition	G 1/4" Ø 63,0		Article addition	G 1/2" Ø 100,0		Article addition	G 1/2" Ø 160,0	
-X	Measuring ranges (bar)		-X	Measuring ranges (bar)		-X	Measuring ranges (bar)	
B	-1 up to	0	B	-1 up to	0	B	-1 up to	0
D	-1 up to	+0,6	D	-1 up to	+0,6	D	-1 up to	+0,6
E	-1 up to	+1,5	E	-1 up to	+1,5	E	-1 up to	+1,5
F	-1 up to	+3,0	F	-1 up to	+3,0	F	-1 up to	+3,0
G	-1 up to	+5,0	G	-1 up to	+5,0	G	-1 up to	+5,0
H	-1 up to	+9,0	H	-1 up to	+9,0	H	-1 up to	+9,0
I	-1 up to	+15,0	I	-1 up to	+15,0	I	-1 up to	+15,0
K	0 up to	+0,6	K	0 up to	+0,6	K	0 up to	+0,6
L	0 up to	+1,0	L	0 up to	+1,0	L	0 up to	+1,0
M	0 up to	+1,6	M	0 up to	+1,6	M	0 up to	+1,6
N	0 up to	+2,5	N	0 up to	+2,5	N	0 up to	+2,5
O	0 up to	+4,0	O	0 up to	+4,0	O	0 up to	+4,0
P	0 up to	+6,0	P	0 up to	+6,0	P	0 up to	+6,0
Q	0 up to	+10,0	Q	0 up to	+10,0	Q	0 up to	+10,0
R	0 up to	+16,0	R	0 up to	+16,0	R	0 up to	+16,0
S	0 up to	+25,0	S	0 up to	+25,0	S	0 up to	+25,0
T	0 up to	+40,0	T	0 up to	+40,0	T	0 up to	+40,0
U	0 up to	+60,0	U	0 up to	+60,0	U	0 up to	+60,0
V	0 up to	+100,0	V	0 up to	+100,0	V	0 up to	+100,0
W	0 up to	+160,0	W	0 up to	+160,0	W	0 up to	+160,0
X	0 up to	+250,0	X	0 up to	+250,0	X	0 up to	+250,0
Y		-	Y	0 up to	+400,0	Y	0 up to	+400,0

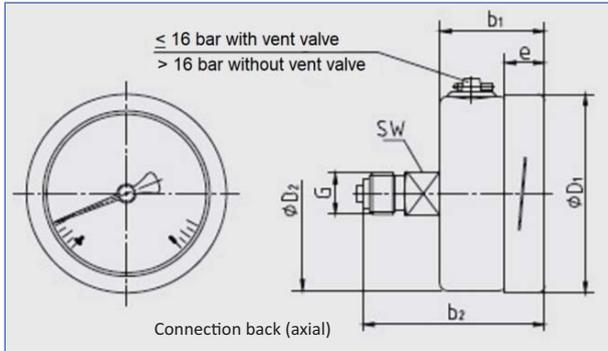
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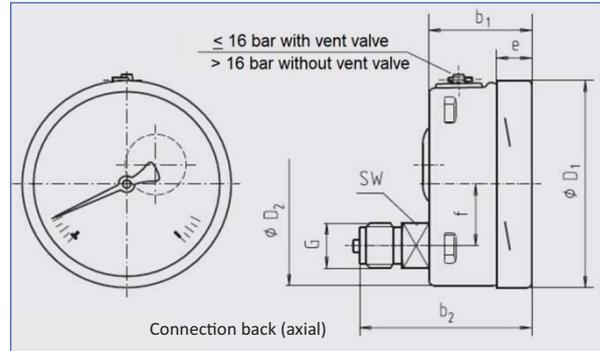
(For the process industry)

Connection G 1/4" and G 1/2"

NS 63



NS 100



Diameter NS	Connection back side G	Article-No.:	Dimensions in mm							
			Connection back axial		b ₁	b ₂	D ₁	D ₂	SW	e
63	G 1/4"	325.4153.6.61-x	33,0	57,0	63,0	62,0	14,0	12,6	-	0,16
100	G 1/2"	325.4155.6.63-x	49,5	83,0	101,0	99,0	22,0	17,5	30,0	0,60

Scale ranges D21 back axial					
Article addition -X	G 1/4" \varnothing 63,0		Article addition -X	G 1/2" \varnothing 100,0	
	Measuring ranges (bar)			Measuring ranges (bar)	
B	-1 up to	0	B	-1 up to	0
K	0 up to	+0,6	K	0 up to	+0,6
L	0 up to	+1,0	L	0 up to	+1,0
M	0 up to	+1,6	M	0 up to	+1,6
N	0 up to	+2,5	N	0 up to	+2,5
O	0 up to	+4,0	O	-	-
P	0 up to	+6,0	P	0 up to	+6,0
Q	0 up to	+10,0	Q	0 up to	+10,0
R	0 up to	+16,0	R	0 up to	+16,0
S	0 up to	+25,0	S	0 up to	+25,0
T	0 up to	+40,0	T	0 up to	+40,0
U	0 up to	+60,0	U	0 up to	+60,0
V	0 up to	+100,0	V	0 up to	+100,0
W	-	-	W	0 up to	+160,0
X	-	-	X	0 up to	+250,0

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