BOURDON TUBE PRESSURE GAUGE FOR SPECIAL SAFETY according to EN 837-1/S3 (S)



NS 63, 100, 160 with or without glycerine filling





Description

The pressure gauges for special safety consistently consider the hard operating conditions and the resultant high demands for the pressure measurement in production plants of the chemical industry.

Through the usage of high-grade materials, e. g. stainless steel, for the measuring system as well as for the case, the resistance to aggressive media and surroundings is achieved.

With the version of a glycerine filled case, the measuring system is damped, when pulsating pressures and mechanical vibrations occur and protected against abrasion.

The safety features of the pressure gauges include a break-proof partition between the dial and the measuring system, a multilayer safety glass and a blow-out back (acc. to EN 837-1/S3).

Pressure gauges with glycerine filling are equipped with a pressure balance device. It avoids a pressure rise in the case, caused through the temperature-dependent volume expansion of the glycerine filling. It avoids a falsification of the display.

Applications

Updated: September 2022

Process technology
Chemical and und petrochemical industry
Food and beverage industry
Machine- and apparatus industry

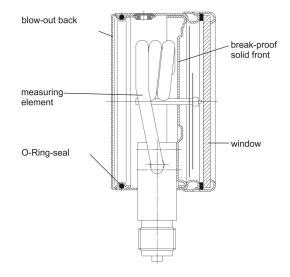
Features

- · chemical-proof
- · solide construction
- meets safety requirements acc. to EN 837-1/S3
- break-proof partition between measuring system and inspection glass
- vibration-free display and longer life through case filling

Measuring ranges

0 ... 0,6 bar up to 0 ... 1000 bar optional for high pressure applications 0...2000 bar up to 0...6000 bar

Schematic drawing



Type 6505, 6507, 6513, 6516



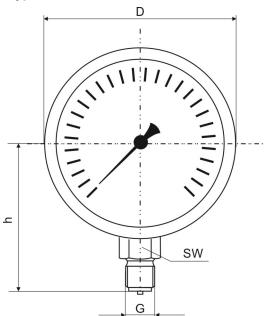
Туре	6505 6507		6513	6516	Options		
Nominal size	63	63	100	160			
Symbol		□∋p			Glycerine filling		
Connection position	radial bottom	back excentric	radial bottom	radial bottom	NS 100 back excentric		
Accuracy class	class 1,6 class 2,5 for med 0600 and 01						
Display range	00,6 bar up to	01000 bar	00,6 bar up to	01600 bar	6513/6516 as high pressure application 02000 - 06000 bar		
Field of application Static load: Dynamic load: Overload:	75 % of full scale 65 % of full scale max. full scale v	e value	Full scale value 90 % of full scale 1,3 x full scale v		Option 1: 6513/6516 02000 - 06000 bar Static loaf: 75 % of full scale value Option 2: 6513/6516 02000 - 04000 bar capable until end value		
Case	Stainless steel 1 blow-out back a						
Ring	Stainless steel 1						
Measuring unit	Stainless steel 3	16L (1.4404)					
Pressure connection	Stainless steel 3						
Thread	G 1/4 B		G 1/2 B		HD-connection for 1/4"- female, M16x1,5 others on request		
Window	Laminated safet						
Pointer mechanism	Stainless steel						
Dial	Aluminium white	Special scale, Double scale					
Pointer	Aluminium black	Drag pointer, Reference pointer					
Temperatures unfilled filled	Store: -40°C up Medium up to +2 Store: -20°C up Medium up to +2	Surrounding tempera- tures -40°C for filled version					
Optional mounting	Mounting back f						
Protection class	IP 54 acc. to EN						
Weight approx. unfilled filled	0,18 kg 0,25 kg						

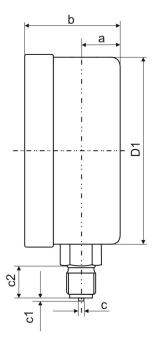
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Dimensional drawings

Dimensions in mm

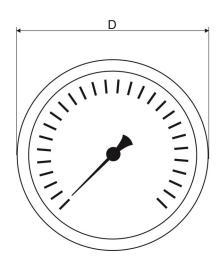
Type 6505, 6513, 6516

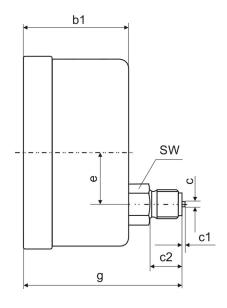






Type 6507





Туре	NS	D	Т	sw	b	b1	а	h	D1	С	с1	c2	е	g
6505	63	64	G1/4B	14	41	-	18	54	62	5	2	13	-	-
6507	63	64	G1/4B	14	-	41	-	-	-	5	2	13	18	63
6513	100	101	G1/2B	22	60	-	27	87	99	6	3	20	-	-
6516	160	161	G1/2B	22	79	-	43	115	159	6	3	20	-	-