



## All stainless steel industrial process pressure gauge open front

### Model PI.1000

According EN 837-1

Nominal size: 63mm, 100 mm or 160 mm

Accuracy: Class 1 (DIN)

#### Applications

- Chemical & petrochemical industry
- Machine, apparatus construction
- Food, beverage industry
- Pulp, paper industry

#### Features

- Rugged stainless steel construction
- Wetted Part (connection & C tube) Stainless Steel 316 L or Monel
- Protection IP65
- Dry & liquid filled
- Overload protection 110 % for 63 mm pressure gauge & 130% for 100&160mm.
- Usable to full scale
- Optional ATEX approved



#### Ranges

-1 ... up to 1000 bar

-30 in. Hg ... up to ... 14.500 psi

Technical specification	PI.1000		
	63	100	160
Construction	Open front cylindrical case with blow out disc at the back		
Pressure Type	Gauge, Vacuum & compound		
Measuring principle	Bourdon tube		
Range [bar]	0,6, 1, 1,6, 2, 2,5, 4, 6, 10, 16, 20, 25, 40, 60, 100, 160, 250, 400, 600, 1000 -1/0, -1/0,6, -1/3, -1/5, -1/9, -1/15, -1/25		
Process connection	% NPT male, % NPT male according ANSI/ASME B1.20.1 G % B male, G % B male, G 3/8 B male according EN 837, M20x1,5 male.		
Connection location	Lower, back		
Material	Stainless steel 316L (1.4404), optional Monel		
Pressure connection	Stainless steel 316L (1.4404), optional Monel, > 1000 bar Ni Span		
Tube	Stainless steel 304 (1.4301), optional 316L (1.4404)		
Case/bayonet ring	Stainless steel 304 (1.4301), optional 316L (1.4404)		
Window	Laminated safety glass		
Dial	Aluminum, black markings on white background		
Pointer	Aluminum, black, micrometer adjustment,		
Movement	Stainless steel 304/303 (1.4301/1.4305)		
Accuracy	Accuracy Class 1 (1 % F.S.), optional 0,5 % F.S.		
Permissible Ambient temperature	-25 ... 60 °C		
Medium temperature	max. 100 °C		
Storage temperature	-40 ... 60 °C		
Protection according EN 60 529/IEC 529	IP65		
Filling liquids	Glycerin, silicone		
Mounting	Standard stem, optional flush or surface, others on request		
Accessories (options)	Diaphragm Chemical seals, valves, Syphon.		



## Advantage

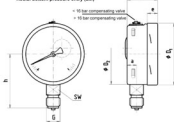
- With Movement for hand calibration.
- All pressure gauges have exclusive Serial Number on dial.
- All the pressure gauges have calibration Certificate.
- With internal adjustment Snubber.

## Working pressure:

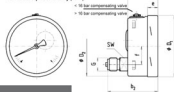
- 63 mm: Steady: full scale value  
Fluctuating: 0.9 x full scale value  
Short time: 1.1 x full scale value

- 100, 160 mm: Steady: full scale value  
Fluctuating: 0.9 x full scale value  
Short time: 1.3 x full scale value

Radial bottom pressure entry (LM)



Lower back pressure entry (LBM)



NS	Dimensions in mm												
	a	b	b <sub>1</sub>	b <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	e	f	G	h ± 1	SW		
63	9.5	33	33	57	63	62	11.5	- 1	G ½ B	54	14	0.16	0.20
100	15.5	49.5	49.5	83	101	99	17.5	30	G ½ B	87	22	0.60	0.90
160	15.5	49.5 ± 0.2	49.5 ± 0.2	83 ± 0.2	161	159	17.5	50	G ½ B	118	22	1.10	2.00

Standard pressure entry with parallel thread and sealing to EN 837-1 / 7.3 2) Plus 16 mm with pressure ranges + 100 bar  
1) NS 63: Centre back pressure entry (CBM) 3) Plus 16 mm with pressure range 1600 bar

Size	Type	System material	Degree of Protection	Process connection	Connection orientation	Range Engineering units (BAR / PSI)	Filling/Case material	Options	
(63) 63mm	PI-1000	(S) 316L (1.4404)	E (IP 65)	(N2) ½ NPT male	(L) Lower	-1/0 psi, (-30" Hg / 0)	(n) Standard	(TW) Tagging wired	
(100) 100 mm		(P) Monel 400		(N4) ¼ NPT male		(B) Back		-1/ 3 bar, (-30" Hg / 40 psi)	no filling
(160) 160 mm				(G4) G ¼ B male	-1/ 5bar, (-30" Hg / 70 psi)			(GL) Glycerin	(OC) Oxygen cleaned
				(G3) G 3/8 B male	-1/ 9bar, (-30" Hg / 130 psi)	(SL) Silicone		(AG) Acrylic glass	
		(G2) G ½ B male		(M20) M20x1.5 male		-1/ 15 bar, (-30" Hg / 200 psi)		(FF) Front flange	
						-1/ 25 bar, (-30" Hg / 360 psi)		(RW) Back flange	
						0/ 0.6 bar, (0 / 8 psi)		(UC) U-clamp	
						0/ 1 bar, (0 / 14psi)			
						0/ 1.6bar, (0 / 23psi)			
						0/ 2 bar, (0 / 29psi)			
						0/ 2.5 bar, (0 / 36 psi)			
						0/ 4 bar, (0 / 58 psi)			
						0/ 6 bar, (0 / 87 psi)			
						0/ 10 bar, (0 / 145psi)			
						0/ 16bar, (0 / 230psi)			
						0/ 25bar, (0 / 362psi)			
						0/ 40bar, (0 / 580psi)			
						0/ 60bar, (0 / 870psi)			
						0/ 80bar, (0 / 1160psi)			
						0/ 100bar, (0 / 1450psi)			
						0/ 160bar, (0 / 2300psi)			
						0/ 250bar, (0 / 3600psi)			
						0/ 400bar, (0 / 5800psi)			
						0/ 600bar, (0 / 8700psi)			
						0/ 1000bar, (0 / 14500psi)			
						other Ranges on request			

## How to order

Size / Type / System material / Degree of protection / Process connection / Connection orientation / Range, Engineering unit / Filling / Case material / Option