

## All Stainless steel Heavy Duty Pressure Gauge Model: PU1

### Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction

### Special features

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Design EN 837-1
- Scale ranges up to 0 ... 1,600 bar



### Description

- |                           |   |
|---------------------------|---|
| ■ Accuracy class          | NS 63: 1.6 NS 100, 160: 1.0, 0.5% (option)  |
| ■ Pressure element        | Stainless steel 316L C-type or helical type<br>Hastelloy, Monel, Tantalum(option)   |
| ■ Process connection      | Stainless steel 316L back & bottom<br>NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option)  |
| ■ Socket & connection     | 316L st. steel treated to comply with NACE MR0175&<br>MR 0103 standards   |
| ■ Window                  | Laminated safety glass Anti-glare & Anti-static   |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling<br>-20 ... +60 °C gauges with glycerine filling<br>Medium: +200 °C maximum without liquid filling<br>+100 °C maximum with liquid filling |
| ■ Movement                | Stainless steel with stabilizer   |
| ■ Pointer                 | Aluminium, black  |
| ■ Dial                    | Aluminium, white, black lettering,  |
| ■ Protection              | IP66  |
| ■ Range                   | 0...10 to 0...30,000 psi;<br>0...60 to 0...200,000 kPa;<br>0...0.6 to 0...2,000 bar<br>Vacuum & compound ranges<br>are available. single or double scale dials.                         |

- Pressure limitation**

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	Full scale value
NS 100, 160:	Steady:	Full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value
  
- Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):  
max. ±0.4 %/10 K of full scale value

Socket of PU1 series is welded to its case and the socket and its measuring element are made of 316L stainless steel and treated to meet NACE MR0-175 and NACE MR 0103 , which make them resistant to hydrogen sulfide stress corrosion cracking. The design and manufacturing is according to EN873-1 standards. Having internal overpressure/ vacuum stop and dampening screw are other features of PU1 Series.

### PU1 Pressure Gauges

ORDERING CODE	Example:	PU1	4	T	2	L	S	AT	WA	Note
<b>Dial Size</b>										
2 - 63 mm(2 <sup>1/2</sup> "										
4 - 100mm(4")			4							
6 - 160mm(6")										
<b>Process Connection Type</b>										
T - Bottom				T						
B - Back										
<b>Process Connection Sizes</b>										
2 - 1/4 NPT Dial 63 Male 1/2 NPT Male NS100,160 Dial					2					
4 - G 1/4 Male Dial 63 G 1/2 Male NS100,160 Dial										
6 - Customer										
<b>Case Design</b>										
D - Dry										
L - Liquid fill						L				
<b>Tube and Process Connection Material</b>										
S - 316L Stainless steel							S			
M - Monel® 400										
H - Hastelloy										
C - Customer										
<b>Accuracy</b>										
AT - 1% (std.)								AT		
AC - 0.5%										
<b>Options</b>										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone filling for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										



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