

## Heavy Duty pressure gauges with diaphragm system

Nominal sizes ND 80

Connection position bottom, radial or back, central



### Description

The Heavy Duty pressure gauges with diaphragm system are particularly suitable for measuring jobs where strong mechanical vibrations or pressure pulsed may arise. They comply with the accident prevention regulation on compressors (VBG 16) and thus fulfil the safety requirements of EN 837-3.

The annular fitted measuring element (diaphragm) is considerably less sensitive to pressure pulsed, vibrations and shock than other measuring elements. Furthermore, diaphragm systems have a relatively large actuating force to activate the pressure display even at low pressures.

The gauges are designed and manufactured on the basis of a modular construction system, associated with increased reliability and extended service life.

Heavy Duty pressure gauges with diaphragm systems are thus products which are designed especially for use in harsh conditions.

### Features

- o High reliability and long service life due to modular construction system
- o Insensitive to pressure pulses and mechanical vibrations
- o High level of shock resistance
- o Complies with safety requirements of EN 837-3
- o Overload capacity, 1.3x
- o Protection IP 54
- o Stainless steel casing

### Measuring ranges


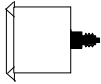
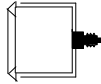
0 ... 1 bar to 0 ... 40 bar

### Applications

Compressors, turbo chargers, hydraulics, pumps, automotive engineering and general mechanical engineering

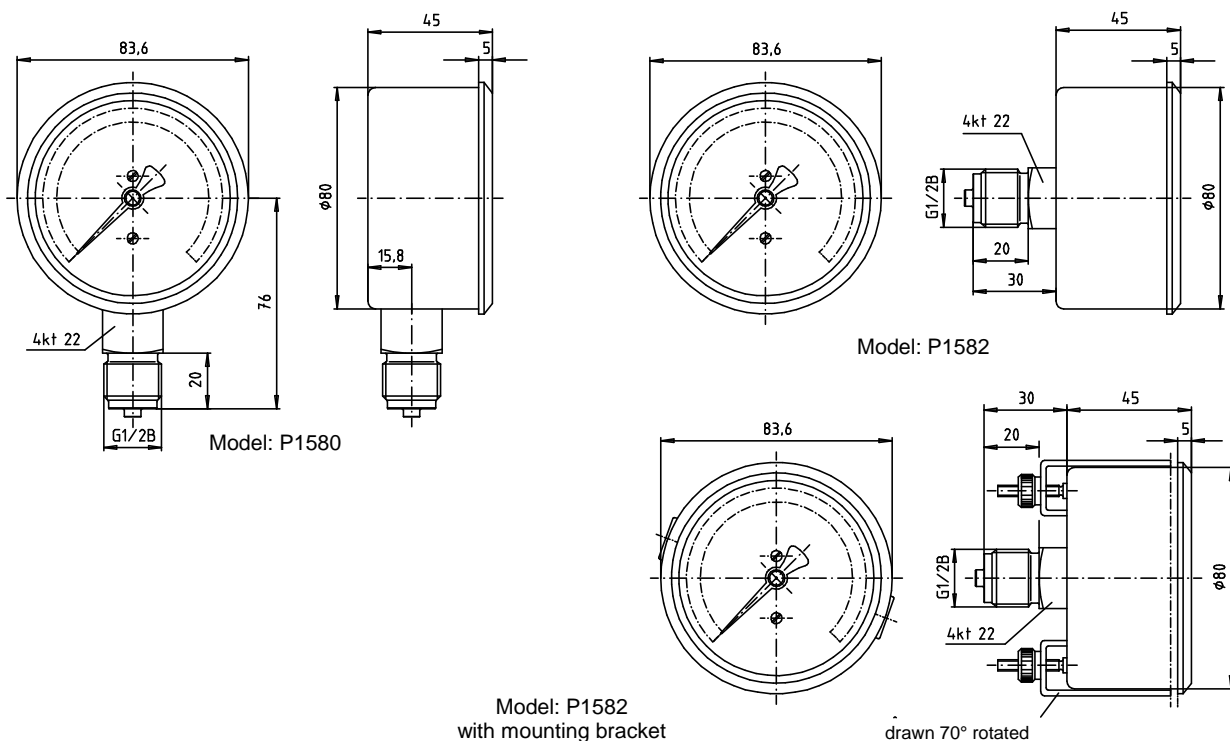
Models: P1580, P1582

## Technical data

Models	P1580	P1582		Options
Nominal size	80			
Symbol				
Accuracy class	2.5 to EN 837-3			
Ranges	0...1 bar to 0...40 bar negative or positive or negative and positive gauge pressure			
Application	Constant load: up to full scale value Alternating load up to 0.9 x full scale value short-time: overload capacity 1.3 xh			
Case	Stainless steel 1.4301			
Bezel	Triangular bezel, stainless steel 1.4301			polished, black
Mounting bracket				Steel, galvanized
Window	Polyamid (Trogamid <sup>®</sup> )			Laminated safety glass PMMA
Dial	Aluminium, white; scale and imprint black			Dual scale
Pointer	Aluminium, black			
Movement	CuZn alloy			
Measuring element	Copper alloy			
Pressure connection	Copper alloy			
- position	radial		back	
- thread	bottom		central	
	G 1/2 B			Other threads on request
Temperatures				
- Media	Tmin. -20°C, Tmax. 80°C			
- Ambient	Tmin. -25°C, Tmax. 60°C			
Temperature drift	0.5 %/10K if deviation from normal temperature 20°C			
Protection	IP 54 to EN 60 529/IEC 529			IP 65
Orifice	ø 0.3 ; ø 0.4 ; ø 0.8			
Weight approx.	0.470 kg		0.550 kg	

Trogamid<sup>®</sup> is the trade market of the company Evonik

## Dimensions



Modifications reserved