

# Flush Diaphragm Pressure Gauge Model PY803F

## Applications

- Pharmaceutical and Biological
- Processing Dairy and Beverage
- Processing Food Processing Drinking
- Water Treatment and Processing

## Special features

- Measuring ranges : - 1... 350 bar
- Accuracy: up to 0.05% F.S
- Media contact part adopts 316L stainless steel and ceramic structure
- International standard quick installation interface, fast and easy to dismantle and install
- Planar design, anti-clogging, anti-scaling, easy to clean, no pollution



**PY803F Diaphragm Pressure Gauge**

## Description

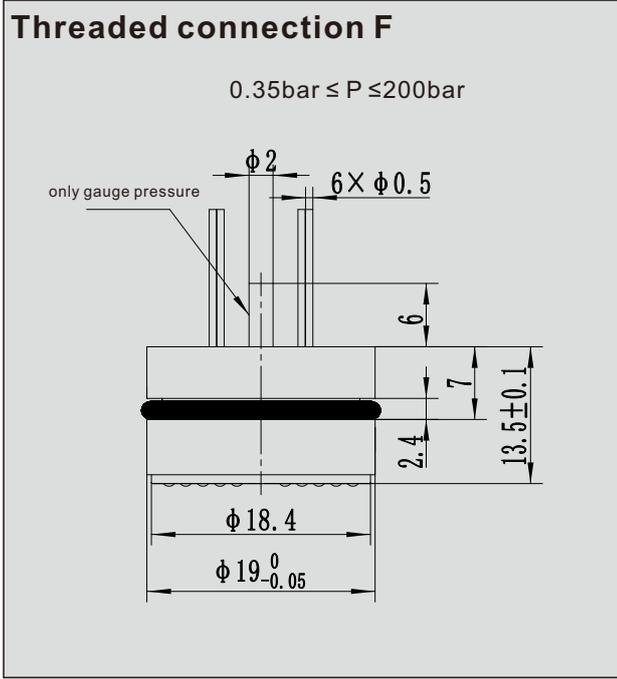
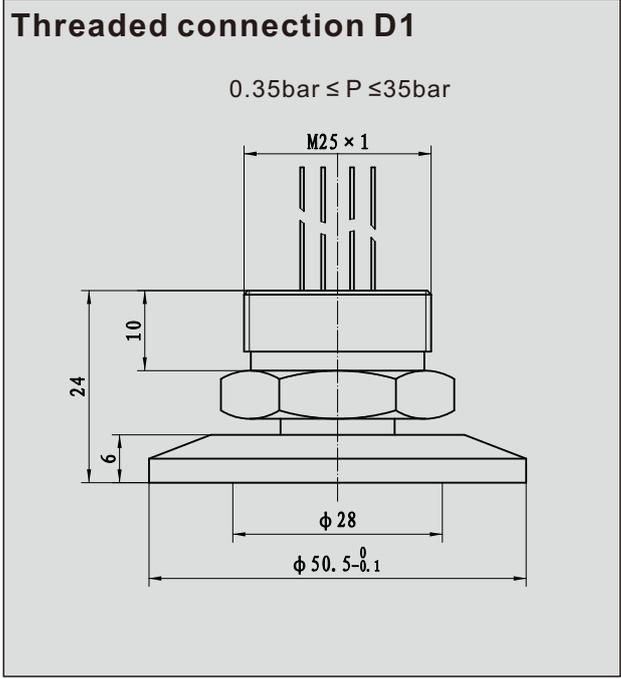
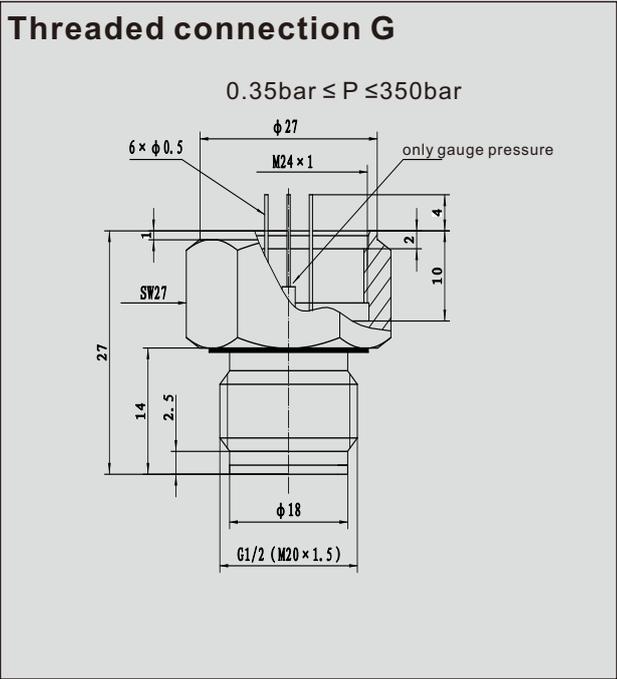
PY803F diaphragm pressure gauge is a new design of hygienic digital pressure gauges specially designed for the food and pharmaceutical industry applications, the instrument and the process media contact part of the full use of high-quality 316L stainless steel and ceramic material structure. Installation method in line with health standards of clamps, quick and convenient joints and other international standards of process connection installation interface.

The interface is very suitable for CIP / SIP in situ cleaning and sterilization and external water spray cleaning operations, to solve the problem of scaling, clogging, cleanliness and hygiene issues, with the process of quick and easy to install and dismantle the site, not easy to contaminate, easy to clean, safety and reliability of the advantages of higher.

# Specifications

Basic information	
<b>Pressure types</b>	
<b>Gauge pressure</b>	-1... 350bar
<b>Accuracy</b>	0.02%FS , 0.025 %FS , 0.05 % FS , 0.1 % FS
<b>Temperature compensation</b>	-10...50 °C
<b>Units</b>	
<b>Pressure</b>	bar ,mbar, Pa, kPa, MPa, PSI, kg/cm <sup>2</sup> , mmH <sub>2</sub> O, mmHg, inHg
<b>Display</b>	
<b>Type</b>	Multifunctional LCD, 6 digit, with background lighting
<b>Functions</b>	Bar Graph, Pressure Units, Pressure Measurement, Min/Max, Overpressure Indication 120 % of Full Scale Pressure (F.S)
<b>Process connection</b>	
<b>Thread</b>	<ul style="list-style-type: none"> <li>■ Flat diaphragm, φ19mm diameter</li> <li>■ Flush diaphragm, M20×1.5 male pressure connection</li> <li>■ Flush diaphragm, G1/2 B male pressure connection</li> <li>■ Dn25 clamp connection</li> <li>■ Dn25 clamp connection with heat sink</li> <li>■ DN50 clamp connection</li> </ul>
<b>Material</b>	316L
<b>Power supply</b>	
<b>Battery type</b>	3x 1.5 V AA and 9vdc external adapter power supply,Explosion-proof type built-in one 14500 disposable lithium battery
<b>Battery operation</b>	8,000 h
<b>Interface</b>	RS 232 port
<b>Housing</b>	
<b>Dimensions</b>	Ø 100 mm, D=37 mm H=135 mm with protection cap
<b>protective cover</b>	Gray Silicone Protective Case
<b>packing box</b>	Aluminum alloy box or carton packaging
<b>Ambient conditions</b>	-20...70°C with air humidity ≤95%r.h.
<b>Weight</b>	650 g

# Process connections



## Measuring ranges, gauge pressure

Overview pressure ranges				
Type	pressure ranges(bar)	Accuracy (± of full scale value)	media	Burst Pressure
GP 0.35	0...0.35	0.05(0.1,0.2)	Gas/Liquid	4X
GP 0.7	0...0.7	0.05(0.1,0.2)	Gas/Liquid	3X
GP 1	0...1	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 2	0...2	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 3.5	0...3.5	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 7	0...7	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 10	0...10	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 20	0...20	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 35	0...35	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 70	0...70	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 100	0...100	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 200	0...200	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 350	0...350	0.02(0.05,0.1,0.2)	Gas/Liquid	3X

## Measuring ranges, vacuum and +/- measuring ranges

Overview pressure ranges				
Type	pressure ranges(bar)	Accuracy (± of full scale value)	media	Burst Pressure
VP 0.35	-0.2...0.35	0.05(0.1,0.2)	Gas/Liquid	4X
VP 0.7	-0.7...0.7	0.05(0.1,0.2)	Gas/Liquid	3X
VP 1	-1...1	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 2	-1...2	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 3.5	-1...3.5	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 7	-1...7	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 10	-1...10	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 20	-1...20	0.02(0.05,0.1,0.2)	Gas/Liquid	3X

## Measuring ranges, absolute pressure

Overview pressure ranges				
Type	pressure ranges(bar)	Accuracy (± of full scale value)	media	Burst Pressure
AP 0.35	0...0.35	0.05(0.1,0.2)	Gas/Liquid	4X
AP 0.7	0...0.7	0.05(0.1,0.2)	Gas/Liquid	3X
AP 1	0...1	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 2	0...2	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 3.5	0...3.5	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 7	0...7	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 10	0...10	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 20	0...20	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 35	0...35	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 70	0...70	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 100	0...100	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 200	0...200	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
AP 350	0...350	0.02(0.05,0.1,0.2)	Gas/Liquid	3X

### Note:

The compensation temperature for 0.02 %FS is  $20 \pm 5$  °C. The compensation temperature for 0.05 % FS is 0-50 °C. If the pressure is less than 100 mbar, the measuring medium is Gas. For pressures greater than 100 mbar, the measuring medium is Liquid or Gas.

Order code				
model	Accuracy	Pressure ranges	Unit	Process connection
PY 803F	A002(0.02%F.S) A005(0.05%F.S) A010(0.1%F.S)	Table of reference measuring ranges	bar psi MPa kg/cm <sup>2</sup> kPa mbar mmHg mmHO inHg Pa	F: Flat diaphragm, $\phi$ 19mm diameter M: Flush diaphragm, M20×1.5 male pressure connection G: Flush diaphragm, G1/2 B male pressure connection D1: Dn25 clamp connection D2: Dn25 clamp connection with heat sink D3: DN50 clamp connection
<b>Example order number</b>		<b>PY803F-A002-GP10(0...10)bar-F</b>		