

# STAINLESS STEEL CASE PRESSURE GAUGES

## 112 series



### APPLICATIONS

Used with the liquid and gas process media not corrosive, not crystallizing and not highly viscous. The glycerin / silicon oil filled type is especially used for measuring points subject to vibration and highly dynamic pressure load. Particularly used in hydraulics, compressors, general mechanical engineering, pumps, water treatment plants, etc.



### SPECIFICATIONS

<b>Dial diameter</b>	1½" (40mm) ; 2" (50mm) ; 2½" (63mm) ; 3" (75mm) ; 4" (100mm) ; 6" (150mm)
<b>Case</b>	Stainless steel 304, IP65 Crimp bezel for dial Ø1½" ~ Ø4" ; Bayonet bezel for dial Ø4" and Ø6"
<b>Lens</b>	Acrylic or glass for dial Ø1½" ~ Ø4" ; Safety glass for dial Ø4" and Ø6"
<b>Dial</b>	Aluminum, black and red/blue markings on white background, dial arc 270°
<b>Measuring principle</b>	Bourdon Tube, brass
<b>Movement</b>	Brass
<b>Pointer</b>	Aluminum, black, adjustable pointer available for dial Ø 4" and 6"
<b>Connection</b>	Male thread 1/8", 1/4", 3/8", 1/2" PT(BSPT) / NPT / PF(BSP), brass
<b>Filling</b>	Without (dry) ; glycerin filled ; silicon oil filled
<b>Accuracy</b>	±2.5%F.S. for Ø1½" & Ø2" ; ±1.6%F.S. for Ø2½" ~ Ø6"
<b>Temperature limits</b>	Dry: medium +60°C ; ambient -20 to +60°C Glycerin filled: medium +60°C ; ambient +10 to +60°C Silicon oil filled: medium +60°C ; ambient -45 to +60°C < Available for medium +180°C if the bourdon tube is silver soldered. This is special custom-made type upon request. >
<b>Ranges</b>	positive 0/1 ~ 0/1000 kg/cm² negative 0/-76 cmHg (relative vacuum) compound -76cmHg / 0 / 1 ~ -76cmHg / 0 / 35 kg/cm² < other units available, e.g. psi, bar, MPa...etc. >

### OPTIONS

- Bayonet bezel for dial Ø2-1½".
- Special connections.
- Cleanness for oxygen, acetylene, hydrogen...etc. dangerous media service.
- Restrictor on connection to alleviate pressure pulsation.
- Maximum pressure pointer on lens.

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### MOUNTING TYPES AND DIAL SIZES

<b>TYPE B</b>  Dial Ø1½", 2", 2½", 3", 4", 6" Direct mounting Bottom connection without flange	<b>TYPE W</b>  Dial Ø2½", 3", 4", 6" Surface mounting Bottom connection with back flange (Wall mounting)	<b>TYPE D</b>  Dial Ø1½", 2", 2½", 3", 4" Direct mounting Centric back connection without flange	<b>TYPE DE</b>  Dial Ø4", 6" Direct mounting Eccentric back connection without flange
<b>TYPE P</b>  Dial Ø1½", 2", 2½", 3", 4", 6" Flush panel mounting Centric back connection with front flange	<b>TYPE PE</b>  Dial Ø4", 6" Flush panel mounting Eccentric back connection with front flange	<b>TYPE U</b>  Dial Ø1½", 2", 2½", 4"      Dial Ø4" Flush panel mounting Centric back connection with U-clamp	

### STANDARD CONNECTION

Dial diameter	Thread size	Dial diameter	Thread size
Ø 1½"	1/8"	Ø 3"	3/8"
Ø 2"	1/4"	Ø 4"	1/2" ; 3/8"
Ø 2½"	1/4"	Ø 6"	1/2"
Thread specification	PT (=BSPT) ; NPT ; PF (=BSP) ; others		
Custom-made connection available upon request			

### HOW TO ORDER

(Please specify additionally the special custom-made specifications or option items)

Example: 112 – B 25 2 P – 0/10kg/cm<sup>2</sup> – O

Mounting Type	Dial Size	Thread Size	Thread Spec.	Range	Filling
B bottom	15 Ø 1½"	1 1/8"	P PT (BSPT)		L glycerin
W surface (wall)	20 Ø 2"	2 1/4"	N NPT		S silicon oil
D centric back	25 Ø 2½"	3 3/8"	F PF (BSP)		N use no oil
DE eccentric back	30 Ø 3"	4 1/2"	O others		O without filling
P panel-centric back	40 Ø 4"				
PE panel-eccentric back	60 Ø 6"				
U panel-U clamp					