

Economical / Crimped ring pressure gauge



FEATURES

- Rugged construction
- Stainless steel case
- Dry / liquid filled

APPLICATIONS

- Hydraulic & pneumatic
- Pumps & compressors
- Diesel engines
- Water applications

STANDARD PARAMETERS

Accuracy	CL 1.6	
Ambient temperature	-40...+65°C (without dampening liquid)	-20...+65°C (with dampening liquid)
Service temperature	150°C max.	
Pressure limits	Steady pressure up to 75% of FS value Short time 1.3 x FS value for range up to 100 bar Short time 1.15 x FS value for ranges 100 up to 600 bar Short time 1.1 x FS value for ranges above 600 bar	
Standard	EN.837-1	

MATERIAL OF CONSTRUCTION

Sensing element	Bourdon Tube (C - type or Helical)
Case & Ring material	AISI 304 SS (Bayonet type)
Bourdon tube & Shank	Phosphor Bronze
Movement mechanism	Copper alloy
Dial	Aluminum, black graduation on white background
Pointer	Fixed, Aluminum, black powder coated
Gaskets, Blow off disc & filling plug	Silicon gasket & Neoprene filling plug
Window	Glass

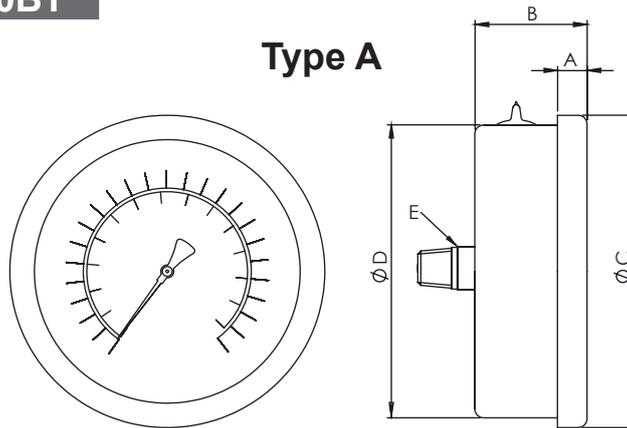
STANDARD SPECIFICATIONS

Dial size	40mm (1½") / 50mm (2") / 63mm (2½")
Range	-1...1000 bar
Mounting pattern	Direct, Bottom connections
Process connection	¼" NPT (M)
Ingress protection	IP 65
Execution	Dry but fillable, glycerin

TEMPERATURE EFFECT

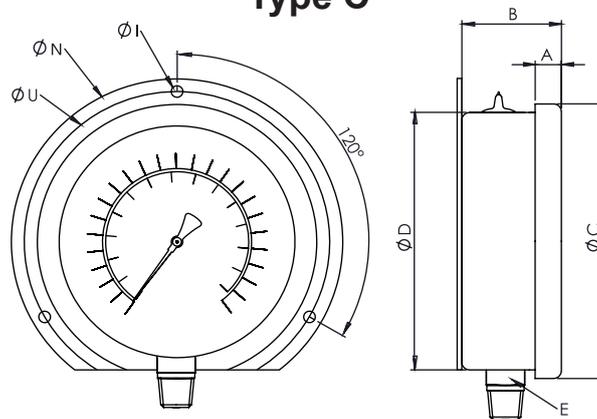
When temperature of the measuring system deviates from reference temperature (+ 20°C) max error ± 0.4% / 10K of true scale value. (According to EN837)

Type A



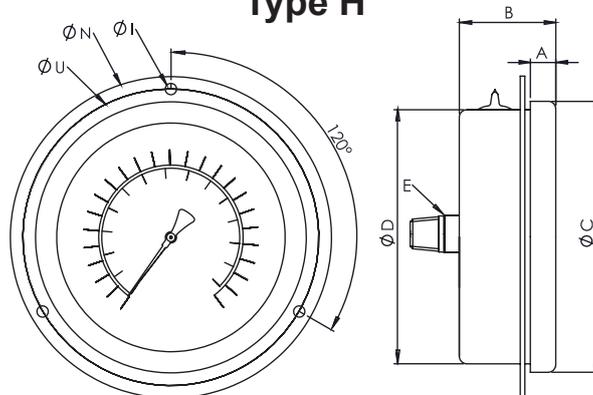
DN	A	B	C	D	E
63	6	31	68	61	SW15
100	9	37	109	98	SW22

Type C



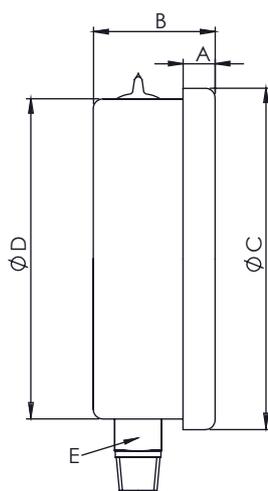
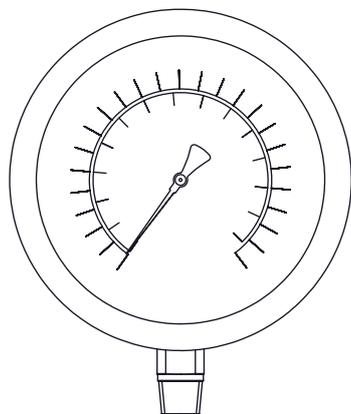
DN	A	B	C	D	E	U	I	N
63	6	31	68	61	SW15	71	3	85
100	9	37	109	98	SW22	104	7	130

Type H



DN	A	B	C	D	E	U	I	N
63	6	31	68	61	SW15	71	3	85
100	9	37	109	98	SW22	104	7	130

Type J



DN	A	B	C	D	E
63	6	31	68	61	SW15
100	9	37	109	98	SW22

ORDERING CODES

1. DIAL SIZE		05
02	50 mm / 2"	
03	63 mm / 2½"	
05	100 mm / 4"	

2. RANGE		XXX
XXX	Refer "Range Table"	

3. MOUNTING PATTERN		A
A	Direct, Bottom connection	
B	Panel/bracket mounting, Lower Back connection	
C	Wall/Surface/mounting, Bottom connection	
D	Back connection	
E	Panel/Front flange mounting, Back connection	
H	Panel/Front flange mounting, Centre Back connection	
J	Centre, Back connection	
L	Panel/bracket mounting, Centre Back connection	

4. PROCESS CONNECTION		12N
11N	1/8" NPT (M)	
12N	¼" NPT (M)	
14N	½" NPT (M)	
11B	1/8" BSP (M)	
12B	¼" BSP (M)	
13B	3/8" BSP (M)	
14B	½" BSP (M)	
Other thread size and standards available on request		

5. INGRESS PROTECTION		ER
ER	IP 65	

6. EXECUTION		EA
EA	Dry	
EB	Dry but fillable	
EG	Glycerine oil	

7. OTHER OPTIONS		EZ
EO	Dampening screw	
EZ	Pointer stop on dial	
GC	Safety glass	
XR	Custom designed dial	
XT	Dial tag marking	
TA	Calibration certificate	
G9	With Freon temperature scales	

Ordering Example:
MT-P110BT-05-XXX-A-12N-ER-EA-EZ

NOTES

1. For other connections, please contact factory.

STANDARD RANGES

RANGE	"bar"	"kg/cm ² "	"bar / psi"	RANGE	"psi"	RANGE	"kPa"	RANGE	"MPa"
0...0.6	B01	K01	N01	0...10	S01	0...60	E01	-	-
0...1	B02	K02	N02	0...15	S02	0...100	E02	0...0.1	M02
0...1.6	B03	K03	N03	0...25	S03	0...160	E03	0...0.16	M03
0...2.5	B05	K05	N05	0...35	S05	0...250	E05	0...0.25	M05
0...4	B06	K06	N06	0...60	S06	0...400	E06	0...0.4	M06
0...6	B07	K07	N07	0...100	S07	0...600	E07	0...0.6	M07
0...10	B09	K09	N09	0...150	S09	0...1000	E09	0...1	M09
0...16	B11	K11	N11	0...235	S11	0...1600	E11	0...1.6	M11
0...25	B13	K13	N13	0...365	S13	0...2500	E13	0...2.5	M13
0...40	B16	K16	N16	0...600	S16	0...4000	E16	0...4	M16
0...60	B17	K17	N17	0...870	S17	0...6000	E17	0...6	M17
0...70	B18	K18	N18	0...1000	S18	0...7000	E18	0...7	M18
0...100	B19	K19	N19	0...1500	S19	0...10000	E19	0...10	M19
0...160	B21	K21	N21	0...2300	S21	0...16000	E21	0...16	M21
0...250	B24	K24	N24	0...3600	S24	0...25000	E24	0...25	M24
0...400	B27	K27	N27	0...6000	S27	0...40000	E27	0...40	M27
0...600	B29	K29	N29	0...8700	S29	0...60000	E29	0...60	M29
0...700	B30	K30	N30	0...10000	S30	0...70000	E30	0...70	M30
0...1000	B31	K31	N31	0...15000	S31	-	-	0...100	M31
-1...0	B37	K37	N37	-	-	-100...0	E37	0.1...0	M37
-1...0.6	B38	K38	N38	-	-	-100...60	E38	-0.1...0.06	M38
-1...1.5	B39	K39	N39	-	-	-100...150	E39	-0.1...0.15	M39
-1...3	B42	K42	N42	-	-	-100...300	E42	-0.1...0.3	M42
-1...5	B43	K43	N43	-	-	-100...500	E43	-0.1...0.5	M43
-1...9	B45	K45	N45	-	-	-100...900	E45	-0.1...0.9	M45
-1...15	B47	K47	N47	-	-	-100...1500	E47	-0.1...1.5	M47
-1...24	B49	K49	N49	-	-	-100...2400	E49	-0.1...2.4	M49

NOTES

1. Other scales & measurement units are available.
2. Equivalent scales available in kg/cm², psi, kPa, MPa, bar/psi, kPa/bar, kPa/psi or any other special scales.
3. Primary scales shall be in «BLACK» and secondary scales shall be «RED».
4. Special scales, custom dial design, OEM/private logo printing is available, details contact our marketing team.