

Economical

MIEPL make SS/MS Powder Coated Pressure Gauges for Ammonia are based on the proven Bourdon tube measuring system. On pressurization, the deflection of the Bourdon tube, proportional to the incident pressure, is transmitted to the movement via a link and indicated. The modular design enables a multitude of combinations of case materials, process connections, nominal sizes and scale ranges. They also have the Temperature scale in correlation to the pressure.

**FEATURES**

- Economical version
- SS measuring system
- Compact case
- Dry execution

APPLICATION

- Air conditioning
- Refrigeration

REFERENCE

- EN 837-1

STANDARD SPECIFICATIONS

| | |
|---------------------------|---|
| Dial size | : DN63 & DN100 |
| | : -1...12.5 bar, -1...16 bar, -1...25 bar |
| Range (With Amonia Scale) | : -30"Hg...150 psi , -30"Hg...300 psi 0...300 psi |
| Mounting pattern | : Direct, Bottom connection |
| Process connection | : 1/4" BSP (M) |
| Execution | : Dry |

STANDARD PARAMETERS

| | |
|---------------------|---|
| Accuracy | : CL 1.6 |
| Ambient Temperature | : -20...+65°C |
| Service Temperature | : 100°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 |
| Weld joints | : TIG Argon arc welding |

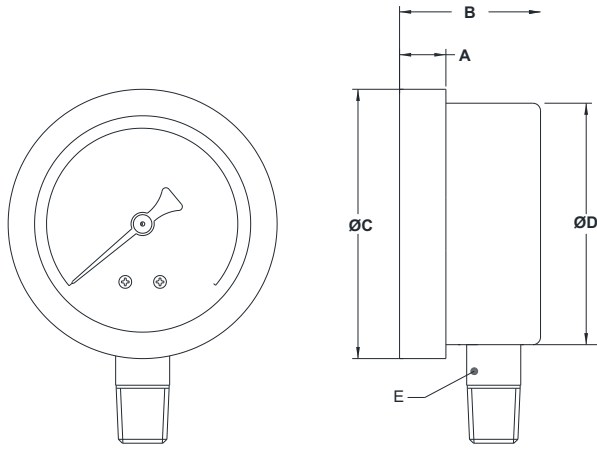
MATERIAL OF CONSTRUCTION

| | |
|----------------------|---|
| Sensing Element | : Bourdon Tube (≤ 100 bar : C - type , > 100 bar : Helical) |
| Case & Ring material | : Steel, powder coated / painted (Push fit type) |
| Bourdon tube & Shank | : Phosphor Bronze |
| Movement mechanism | : Copper Alloy |
| Dial | : Aluminum, black graduation on white background |
| Pointer | : Fixed, aluminum, black powder coated |
| Window | : Sheet glass |

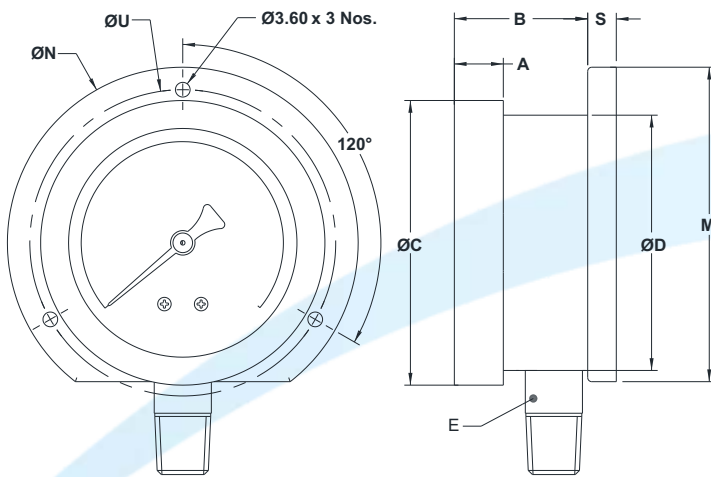
TEMPERATURE EFFECT

Please refer clause no 9.3 of EN 836-1

DRAWING



| Type - 1A, (Bayonet ring) | | |
|---------------------------|-----|------|
| DN | 63 | 100 |
| A | 12 | 12.5 |
| B | 30 | 35.5 |
| ØC | 63 | 100 |
| ØD | 62 | 98 |
| E | 14 | 19 |
| Weight (gm) | 200 | 490 |



| Type - 1B, (Bayonet ring) | | |
|---------------------------|-----|-----|
| DN | 63 | 100 |
| A | 12 | 13 |
| B | 30 | 36 |
| ØC | 63 | 99 |
| ØD | 62 | 97 |
| E | 14 | 17 |
| M | 80 | 117 |
| S | 5 | 1.2 |
| ØN | 88 | 132 |
| ØU | 79 | 118 |
| ØI | 5 | 6 |
| Weight (gm) | 250 | 590 |

ORDERING CODE

MP35 - C - XXX - 1A - 2NM - IP1 - E1

| | | | | | | | |
|-----------------------|--|---|-----|----|-----|-----|----|
| 1. DIAL SIZE | 63 mm / 2½" | C | XXX | 1A | 2NM | IP1 | E1 |
| | 100 mm / 4" | D | | | | | |
| 2. RANGE | Refer "Range Table" | | XXX | | | | |
| 3. MOUNTING PATTERN | Direct, Bottom connection | | | 1A | | | |
| | Wall/Surface/Projection mounting, Bottom connection | | | 1B | | | |
| 4. PROCESS CONNECTION | ¼" NPT (M) | | | | 2NM | | |
| | 3/8" NPT (M) | | | | 3NM | | |
| | ¼" BSP (M) | | | | 2BM | | |
| | 3/8" BSP (M) | | | | 3BM | | |
| | Other thread size and standards available on request. ¹ | | | | | | |
| 5. INGRESS PROCESS | IP 54 | | | | | IP1 | |
| 6. EXECUTION | Dry | | | | | | E1 |
| 7. OTHER OPTIONS | Pointer stop on dial | | | | | | DZ |
| | Custom designed dial | | | | | | WR |
| | 5 - point calibration certificate | | | | | | SA |
| | SS tag plate, AISI 304 SS | | | | | | WF |

Ordering Example: **MP35 - C - XXX - 1A - 2NM - IP1 - E1**

1. For other connections, please contact factory.