

## Data Sheet

### 1259 Process Gauge

#### FEATURES

- **PLUS!™** Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge
- Accuracy complies with ASME B40.100 Grade 2A ( $\pm 0.5\%$  of span)
- Solid front safety case with pressure relief back
- 4½" dial size

#### TYPICAL USES

- Refineries
- Chemical, petrochemical plants and offshore oil rigs
- Water and wastewater pressure control
- Pulp and paper
- Mining and metals
- Equipment skids
- Specialized OEM equipment

#### SPECIFICATIONS

|                     |                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy:           | $\pm 0.5\%$ of span (ASME B40.100, Grade 2A)                                                                                                                               |
| Dial Size:          | 4½"                                                                                                                                                                        |
| Process Connection: | ¼ NPT Male, ½ NPT Male                                                                                                                                                     |
| Ranges:             | Vacuum to 20,000 psi                                                                                                                                                       |
| Case Style:         | Solid front with pressure relief back                                                                                                                                      |
| Movement:           | Adjustable                                                                                                                                                                 |
| Pointer:            | Micrometer adjustable, aluminum                                                                                                                                            |
| Weather Protection: | Dry Case: Case is not sealed and recommended for weather protected environment only<br>Liquid filled or field fillable and Weatherproof: IP66<br>Hermetically Sealed: IP66 |
| Mounting:           | Stem, surface, remote                                                                                                                                                      |
| Dampening Options:  | Liquid fill, throttle screw and pulsation dampener<br><b>PLUS!™</b> Performance                                                                                            |

#### WETTED COMPONENTS

| Bourdon Tube | Process Connection | Joints |
|--------------|--------------------|--------|
| 316L SS      | 316L SS            | Welded |
| K-Monel® 500 | Monel® 400         | Welded |

#### NON-WETTED COMPONENTS

| Case                                                   | Ring                                                                     | Window                                    | Pressure Relief Back                                   |
|--------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------|
| PBT<br>Polybutylene terephthalate<br>(Meets UL 94-V-0) | PBT<br>Polybutylene terephthalate/<br>polycarbonate<br>(Meets UL 94-V-0) | Glass,<br>Safety glass,<br>Acrylic (OPT.) | PBT<br>Polybutylene terephthalate<br>(Meets UL 94-V-0) |



**1259**  
4½" dial size



#### KEY BENEFITS

- Available with a wide range of diaphragm seals
- Available with a large variety of instrument assemblies

#### MIN/MAX TEMPERATURE LIMITS

| Version       | Ambient                               | Process                                | Storage                                |
|---------------|---------------------------------------|----------------------------------------|----------------------------------------|
| Dry           | -20 °F to 200 °F<br>(-29 °C to 93 °C) | -20 °F to 250 °F<br>(-29 °C to 121 °C) | -40 °F to 250 °F<br>(-40 °C to 121 °C) |
| <b>PLUS!™</b> | -40 °F to 150 °F<br>(-40 °C to 66 °C) | -40 °F to 200 °F<br>(-40 °C to 93 °C)  | -40 °F to 150 °F<br>(-40 °C to 66 °C)  |
| Glycerin Fill | 20 °F to 150 °F<br>(7 °C to 66 °C)    | 20 °F to 150 °F<br>(7 °C to 66 °C)     | 0 °F to 150 °F<br>(-18 °C to 66 °C)    |
| Silicone Fill | -40 °F to 150 °F<br>(-40 °C to 66 °C) | -40 °F to 200 °F<br>(-40 °C to 93 °C)  | -40 °F to 150 °F<br>(-40 °C to 66 °C)  |

Note: Other than discoloration of the dial and hardening of the gasketing that may occur as ambient or process temperatures exceeds 150 °F, non-liquid-filled gauges with standard glass windows, can withstand continuous operating temperatures up to 250 °F (121 °C). Liquid-filled gauges can withstand 200° F (93 °C) but glycerin fill and acrylic window will tend to yellow. Accuracy at temperatures above or below the reference ambient temperature of 68 °F (20 °C) will be affected by approximately 0.4% per 25 °F. Gauges with welded joints will withstand 750 °F (400 °C), 450 °F (232 °C) with silver brazed joints for short times without rupture, although other parts of the gauge will be destroyed and calibration will be lost. For continuous use and for process or ambient temperatures above 250 °F (121 °C), a diaphragm seal or capillary or siphon is recommended.

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# Data Sheet

## 1259 Process Gauge

| ORDERING CODE                                                                                                                                                                                                                                                                           | Example: | 451259 | S | D | 02 | L | XC4   | 15# |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|---|---|----|---|-------|-----|
| Dial Size/Model Code                                                                                                                                                                                                                                                                    |          |        |   |   |    |   |       |     |
| 451259 - 4½" Polybutylene terephthalate case, solid front (Meets UL 94-V-0)                                                                                                                                                                                                             |          | 451259 |   |   |    |   |       |     |
| System (tube and process connection)                                                                                                                                                                                                                                                    |          |        |   |   |    |   |       |     |
| S - 316L Stainless steel tube and process connection                                                                                                                                                                                                                                    |          |        | S |   |    |   |       |     |
| P - K-Monel® 500 tube, Monel® 400 process connection                                                                                                                                                                                                                                    |          |        |   |   |    |   |       |     |
| Case Design                                                                                                                                                                                                                                                                             |          |        |   |   |    |   |       |     |
| D - Dry                                                                                                                                                                                                                                                                                 |          |        |   | D |    |   |       |     |
| L - Glycerin liquid filled (IP65)                                                                                                                                                                                                                                                       |          |        |   |   |    |   |       |     |
| Process Connection Sizes                                                                                                                                                                                                                                                                |          |        |   |   |    |   |       |     |
| 02 - ¼ NPT Male                                                                                                                                                                                                                                                                         |          |        |   |   | 02 |   |       |     |
| 04 - ½ NPT Male                                                                                                                                                                                                                                                                         |          |        |   |   |    |   |       |     |
| Process Connection Location                                                                                                                                                                                                                                                             |          |        |   |   |    |   |       |     |
| L - Lower                                                                                                                                                                                                                                                                               |          |        |   |   |    | L |       |     |
| Options (If choosing an option(s) must include an "X")                                                                                                                                                                                                                                  |          |        |   |   |    |   | X _ _ |     |
| SG - Safety glass                                                                                                                                                                                                                                                                       |          |        |   |   |    |   |       |     |
| LJ - Hermetically sealed                                                                                                                                                                                                                                                                |          |        |   |   |    |   |       |     |
| LL - <b>PLUS!</b> ™ Performance                                                                                                                                                                                                                                                         |          |        |   |   |    |   |       |     |
| NZ - <b>PLUS!</b> ™ Performance, silicone free (dry gauges)                                                                                                                                                                                                                             |          |        |   |   |    |   |       |     |
| GV - Silicone filled case                                                                                                                                                                                                                                                               |          |        |   |   |    |   |       |     |
| NH - Stainless steel tag wired to case                                                                                                                                                                                                                                                  |          |        |   |   |    |   |       |     |
| 6B - Cleaned for gaseous, oxygen service                                                                                                                                                                                                                                                |          |        |   |   |    |   |       |     |
| D3 - DuraVis™ Retroreflective Dial (4½" and dry case only)                                                                                                                                                                                                                              |          |        |   |   |    |   |       |     |
| C4 - <a href="#">Traceable calibration certificate</a>                                                                                                                                                                                                                                  |          |        |   |   |    |   | C4    |     |
| 5G - Attach one accessory to gauge. Applicable to PL02 pressure limiting valve, V01, V02, V03 valves, 1098, 1100, 1198, 2198 siphons, 7001, 7004 needle valves, 1115 capillary, 1106 pulsation dampner, 1112, PD02 pressure snubbers, MDV swivel adapter, 2265 electric warning contact |          |        |   |   |    |   |       |     |
| Range (coding examples only, see range table on page 3 for all standard ranges)                                                                                                                                                                                                         |          |        |   |   |    |   |       |     |
| Single Scales                                                                                                                                                                                                                                                                           |          |        |   |   |    |   |       |     |
| 15# - 15 psi                                                                                                                                                                                                                                                                            |          |        |   |   |    |   |       | 15# |
| 1BR - 1 bar                                                                                                                                                                                                                                                                             |          |        |   |   |    |   |       |     |
| 1KG - 1 kg/cm²                                                                                                                                                                                                                                                                          |          |        |   |   |    |   |       |     |
| 100KP - 100 kPa                                                                                                                                                                                                                                                                         |          |        |   |   |    |   |       |     |
| Dual Scales                                                                                                                                                                                                                                                                             |          |        |   |   |    |   |       |     |
| 2KG/# - 2 kg inner scale, 30 psi outer scale                                                                                                                                                                                                                                            |          |        |   |   |    |   |       |     |

When selecting a diaphragm seal or isolation ring, refer to the [Min/Max Guide](#) for compatibility with this gauge or scan the QR code to the right.

# Data Sheet

## 1259 Process Gauge

### STANDARD PRESSURE RANGES

|                   | psi    | bar      | kPa        | mPa         | kg/cm <sup>2</sup> |
|-------------------|--------|----------|------------|-------------|--------------------|
| Vacuum            | 30IMV  | N1BR     | N100KP     | N1MP        | N1KG               |
|                   | –      | N1/0.6BR | N100/60KP  | 0.1/0.06MP  | N1/0.6KG           |
| Compound          | V/15#  | –        | –          | –           | –                  |
|                   | –      | N1/1.5BR | N100/150KP | N0.1/0.15MP | N1/1.5KG           |
|                   | V/30#  | –        | –          | –           | –                  |
|                   | –      | N1/3BR   | N100/300KP | N0.1/0.3MP  | N1/3KG             |
|                   | V/60#  | –        | –          | –           | –                  |
|                   | –      | N1/5BR   | N100/500KP | N0.1/0.5MP  | N1/5KG             |
|                   | V/100# | –        | –          | –           | –                  |
|                   | –      | N1/9BR   | N100/900KP | N0.1/0.9MP  | N1/9KG             |
|                   | 15#    | 1BR      | 100KP      | 0.1MP       | 1KG                |
|                   | 20#    | –        | –          | –           | –                  |
| Positive Pressure | –      | 1.6BR    | 160KP      | 0.16MP      | 1.6KG              |
|                   | 30#    | –        | –          | –           | –                  |
|                   | –      | 2.5BR    | 250KP      | 0.25MP      | 2.5KG              |
|                   | 60#    | 4BR      | 400KP      | 0.4MP       | 4KG                |
|                   | –      | 6BR      | 600KP      | 0.6MP       | 6KG                |
|                   | 100#   | –        | –          | –           | –                  |
|                   | 120#   | –        | –          | –           | –                  |
|                   | –      | 10BR     | 1000KP     | 1MP         | 10KG               |
|                   | 160#   | –        | –          | –           | –                  |
|                   | 200#   | –        | –          | –           | –                  |
|                   | –      | 16BR     | 1600KP     | 1.6MP       | 16KG               |
|                   | 300#   | –        | –          | –           | –                  |
|                   | –      | 25BR     | 2500KP     | 2.5MP       | 25KG               |
|                   | 400#   | –        | –          | –           | –                  |
|                   | 500#   | –        | –          | –           | –                  |
|                   | 600#   | 40BR     | 4000KP     | 4MP         | 40KG               |
|                   | 800#   | –        | –          | –           | –                  |
|                   | –      | 60BR     | 6000KP     | 6MP         | 60KG               |
|                   | 1000#  | –        | –          | –           | –                  |
|                   | 1500#  | 100BR    | 10000KP    | 10MP        | 100KG              |
|                   | 2000#  | –        | –          | –           | –                  |
|                   | –      | 160BR    | 16000KP    | 16MP        | 160KG              |
|                   | 3000#  | –        | –          | –           | –                  |
|                   | –      | 250BR    | 25000KP    | 25MP        | 250KG              |
|                   | 4000#  | –        | –          | –           | –                  |
|                   | 5000#  | –        | –          | –           | –                  |
|                   | 6000#  | 400BR    | 40000KP    | 40MP        | 400KG              |
|                   | 8000#  | –        | –          | –           | –                  |
|                   | –      | 600BR    | 60000KP    | 60MP        | 600KG              |
|                   | 10000# | –        | –          | –           | –                  |
|                   | 15000# | 1000BR   | 100000KP   | 100MP       | 1000KG             |
|                   | 20000# | –        | –          | –           | –                  |

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#### DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

