

Data Sheet

1290 Direct Drive Process Pressure Gauge

FEATURES

- Accuracy complies with $\pm 0.5\%$ (ASME B40.1, Grade A)
- Gearless design
- Ideal for shock and vibration applications
- External dial adjustment

TYPICAL USES

- Refineries
- Offshore / Power - Power Plants



1290
4½" dial size



SPECIFICATIONS

Accuracy: $\pm 0.5\%$ of span (ASME B40.100, Grade 2A)
 Size: 4½"

Range: 15 to 2,000 psi

Process Connection Location: Lower

Process Connection Size: ¼ NPT Male, ½ NPT Male

Case Style: Solid front with pressure relief back

Movement: Adjustable

Movement Materials: 300 SS

Window Material: Acrylic

Dial: Aluminum, white background, black scale

Pointer: Aluminum

Weather Protection: Dry Case: IP54

Mounting: Stem or Surface

Approvals: CRN

WETTED COMPONENTS

| Bourdon Tube | Process Connection | Joints |
|---------------------------------|--------------------|--------|
| Inconel® 750X, 304 SS capillary | 316L SS | Welded |

NON-WETTED COMPONENTS

| Case | Ring | Back Cover |
|-------------------|--------|---------------|
| ABS Thermoplastic | 302 SS | Polypropylene |

KEY BENEFITS

- Low volumetric displacement - compatible with mini diaphragm seal
- Selection of Measurement Units (psig and dual scale, kg/cm²/psi)
- Optional NIST Traceable Calibration Chart

MIN/MAX TEMPERATURE LIMITS (1259 ONLY)

| Version | Ambient | Process | Storage |
|---------------|-----------------------------------|------------------------------------|------------------------------------|
| Dry | -20°F to 200°F (-29°C to 93°C) | -20°F to 250°F (-29°C to 121°C) | -40°F to 250°F (-40°C to 121°C) |
| Glycerin Fill | 20°F to 150°F (7°C to 66°C) | 20°F to 200°F (7°C to 66°C) | 0°F to 150°F (-18°C to 66°C) |
| Silicone Fill | -40°F to 150°F (-40°C to 66°C) | -40°F to 200°F (-40°C to 93°C) | -40°F to 150°F (-40°C to 66°C) |

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| ORDERING CODE | Example: | 451290 | W | D | 02 | L | XC4 | 15# |
|---|----------|--------|---|---|----|----|-----|-----|
| Dial Size/Model Code | | | | | | | | |
| 451290 - 4½" ABS thermoplastic case, solid front. Direct drive | | 451290 | | | | | | |
| System (tube and process connection) | | | | | | | | |
| W - Inconel [®] direct drive coil X750, SS process connection | | | W | | | | | |
| Case Design | | | | | | | | |
| D - Dry (IP54) | | | | D | | | | |
| 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_ |
| C4 - Individual calibration chart in accordance with ASME B40.100:2013. Accuracy traceable to N.I.S.T | | | | | | | | C4 |
| 6B - Cleaned for gasses, oxygen service | | | | | | | | |
| NH - SS tag wired to case | | | | | | | | |
| RG - Regular glass | | | | | | | | |
| 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/cm ² | | | | | | | | |
| 100KP - 100 kilopascal | | | | | | | | |
| Dual Scales | | | | | | | | |
| 2KSC/# - 2 bar inner scale, 30 psi outer scale | | | | | | | | |

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| Single Scale | Dual Scale | |
|--------------|------------|-------------|
| | psi | KSC - inner |
| 15# | 2 | 0/30 |
| 30# | 7 | 0/100 |
| 60# | 11 | 0/160 |
| 100# | 14 | 0/200 |
| 150# | 21 | 0/300 |
| 160# | 28 | 0/400 |
| 200# | 35 | 0/500 |
| 300# | 42 | 0/600 |
| 400# | 70 | 0/1000 |
| 500# | 105 | 0/1500 |
| 600# | 120 | 0/2000 |
| 800# | | |
| 1000# | | |
| 1500# | | |
| 2000# | | |

DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

