

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
4 1/2" dial size



SPECIFICATIONS

Accuracy:	$\pm 0.5\%$ of span (ASME B40.100, Grade 2A)
Size:	4 1/2"
Range:	15 to 2,000 psi

Process Connection Location:	Lower
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Process Connection Size:	1/4 NPT Male, 1/2 NPT Male
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Case Style:	Solid front with pressure relief back
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Movement:	Adjustable
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Movement Materials:	300 SS
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Window Material:	Acrylic
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Dial:	Aluminum, white background, black scale
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Pointer:	Aluminum
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Weather Protection:	Dry Case: IP54
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Mounting:	Stem or Surface
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Approvals:	CRN
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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/cm²								
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	psi - outer
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

