

## 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
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Process Connection Size:	¼ NPT Male, ½ 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 Stainless steel
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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 Stainless steel	Polypropylene

### KEY BENEFITS

- Low volumetric displacement - compatible with mini diaphragm seal
- Selection of Measurement Units (psig and dual scale, kg/cm<sup>2</sup>/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#
<b>Dial Size/Model Code</b>								
451290 - 4½" ABS thermoplastic case, solid front. Direct drive		451290						
<b>System (tube and process connection)</b>								
W - Inconel <sup>®</sup> direct drive coil X750, SS process connection			W					
<b>Case Design</b>								
D - Dry (IP54)				D				
<b>Process Connection Sizes</b>								
02 - ¼ NPT Male					02			
04 - ½ NPT Male								
<b>Process Connection Location</b>								
L - Lower						L		
<b>Options (If choosing an option(s) must include an "X")</b>							X_	
C4 - <a href="#">Traceable calibration certificate</a>							C4	
6B - Cleaned for gasses, oxygen service								
NH - Stainless steel tag wired to case								
RG - Regular glass								
<b>Range (coding examples only, see range table on page 3 for all standard ranges)</b>								
<b>Single Scales</b>								
15# - 15 psi								15#
1BR - 1 bar								
1KG - 1 kg/cm <sup>2</sup>								
100KP - 100 kilopascal								
<b>Dual Scales</b>								
2KSC/# - 2 bar inner scale, 30 psi outer scale								

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Single Scale	Dual Scale	
	KSC - inner	psi - outer
psi		
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

