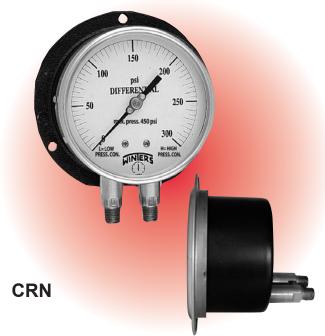
## Differential



## Description

Winters' (CRN registered) Differential Gauges are single pointer gauges that show the difference between two separate but related pressures on the same dial. Winters Differential Gauges are available with the zero point at the top centre of the scale or the more conventional style with the zero at the left side of the scale.

This gauge can be used to show the difference between the input and output pressures on a line entering and exiting a filter. For example, the line entering the filter would have a known pressure of 45 psi and, if the filter remains clear or clean, the pressure on the line exiting the filter would also be 45 psi. This would mean that the gauge would read zero (0) which is the difference in value between the input and output pressures. If the same filter was dirty or partially clogged, the output pressure would be reduced while the input pressure would remain at 45 psi. If the output pressure drops to 25 psi, the Differential Pressure gauge would show a reading of 20 psi which is the difference in value between the input and output pressures. This difference between the input and output pressures would indicate that the filter is either working well (clean) or needs to be replaced (dirty).

(\*The dial pressure range must be 2/3 of maximum operating pressure - (e.g. 0-300 psi will have maximum operating range of 450 psi).

Sp	ecifications					
Dial:	$4^{1}/_{2}$ " (115mm) and 6" (150mm) white					
	aluminum with black markings					
Case:	Aluminum, painted black					
Lens:	Glass					
Ring:	$4^{1}/_{2}$ " stainless steel, 6"Aluminum					
Front Flange:	$4^{1}/_{2}$ " stainless steel, 6"Aluminum					
Back Flange:	Aluminum					
Pointer:	Aluminum					
Socket:	Brass or 316 stainless steel as					
	specified					
Connection:	<sup>1</sup> / <sub>4</sub> " NPT standard					
Bourdon Tubes:	Phosphor bronze or AISI 316					
	stainless steel, independent,					
	matched					
Movement:	Brass, heavy duty					
Welding:	Tin/copper alloy for brass internals					
	TIG Argonarc for stainless steel					
	internals					
Over-pressure Limit:	30% of full scale value					
Working Pressure:	Maximum 75% of full scale value					
Ambient Temperature:	-40°F to 150°F (-40°C to 65°C)					
Process Temperature:	-40°F to 150°F (-40°C to 65°C)					
Accuracy:	+/- 1% accuracy (ANSI/ASME					
	Grade 1A)					
<u>Movements</u>						
Plates:	Brass					
Columns:	Brass					
Outer frame bearings:	Stainless steel					
Inner frame bearings:	Bronze					
Segment:	Bronze					
Slide:	Brass					
Long Lever:	Bronze					
Short Lever:	Brass					
Slide shoulder screws:	Stainless steel					
Pinion:	Nickel silver					
Shaft (arbor):	Nickel silver					
Hairspring:	Bronze					

\*\*High Pressure/Low Pressure configurations are also, available.



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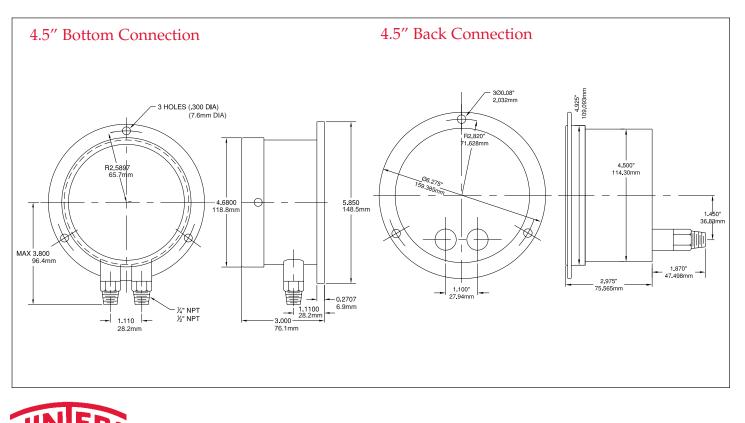
## Differential

## How to order: Specify product code PRODUCT CODES

Dial Size	4¹/₂″(115mm)			6″(150mm)				
Tube & Socket	Brass	Brass	St/St	St/St	Brass	Brass	St/St	St/St
Connection	1/4" NPT	1/4" NPT	1/4″ NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4″ NPT
	Bottom	Back (LB)	Bottom	Back (LB)	Bottom	Back (LB)	Bottom	Back (LB)
0/15 psi	P8051	P8051B	P8061	P8061B	P8071	P8071B	P8081	P8081B
0/30 psi	P8052	P8052B	P8062	P8062B	P8072	P8072B	P8082	P8082B
0/60 psi	P8053	P8053B	P8063	P8063B	P8073	P8073B	P8083	P8083B
0/100 psi	P8054	P8054B	P8064	P8064B	P8074	P8074B	P8084	P8084B
0/160 psi	P8055	P8055B	P8065	P8065B	P8075	P8075B	P8085	P8085B
0/200 psi	P8056	P8056B	P8066	P8066B	P8076	P8076B	P8086	P8086B
0/300 psi	P8057	P8057B	P8067	P8067B	P8077	P8077B	P8087	P8087B
0/600 psi	P8058	P8058B	P8068	P8068B	P8078	P8078B	P8088	P8088B
Special Range	P8050	P8050B	P8060	P8060B	P8070	P8070B	P8080	P8080B

LB = Lower Back Connection

(Dial pressure range must be 2/3 of maximum operating pressure) (High Pressure / Low Pressure configurations are also available)



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