

Differential Gauge - Piston Type



1000 SERIES

- Accurately measures the pressure drop across filters, pumps, strainers, separators and valves
- Maximum static or working pressure to 6,000 psi
- 2-1/2 and 4-1/2 inch sizes - back or side connected
- Rugged case construction with weather-resistant NEMA 4X enclosure
- Single piece construction of ceramic magnet/piston minimizes "blow by" and increases accuracy
- Optional liquid filling lubricates gauge internals and extends service life by dampening the effects of vibration, pulsation and shock
- Media leakage within the sensor body is by design and kept to a minimum through precise engineering specifications
- Shipped with a certificate of calibration to ensure accuracy and quality performance
- Cost effective

APPLICATIONS

- Filters
- Flow indicators
- Heat exchangers
- Back flow restrictors
- Hydraulic and pneumatic systems
- Water treatment systems
- Pumps and compressors
- Industrial machinery and machine tools

SPECIFICATIONS

Nominal Sizes	2-1/2 Inch (63.5mm) 4-1/2 Inch (114.3mm)
Case and Bezel Material	Fiberglass reinforced thermoplastic
Lens	Acrylic – Standard Laminated safety glass – optional
Sensor Housing Material	Black anodized aluminum – standard 316L Stainless steel – optional
Sensor Material	316 Stainless steel and ceramic piston/magnet
O-Ring Material	Viton – standard Buna N – optional Ethylene propylene – optional
Process Connection	1/4" NPT Female, back connection – standard 1/4" NPT Female, side connection – optional
Accuracy	±2% of Full Scale on rising pressure
Dial	Aluminum, white background with black markings
Pointer	Balanced aluminum, black finish
Gauge Fill Fluid	Glycerine – optional Others available – please consult factory
Operating Temp.	-40°F to 200°F (-40°C to 93°C)
Ranges	0 to 5 psid through 0 to 100 psid
Max. Working Static Pressure	6000 psig

ORDERING INFORMATION										
GAUGE SIZE & SERIES	25 - 10	2-1/2 Inch	45 - 10	4-1/2 Inch						
CONNECTION LOCATION	1	Back								
	2	Side								
CONNECTION SIZE	2	1/4" NPT Female								
PRESSURE RANGE	P5	0 to 5 psid	P15	0 to 15 psid	P25	0 to 25 psid	P50	0 to 50 psid	P75	0 to 75 psid
	P10	0 to 10 psid	P20	0 to 20 psid	P30	0 to 30 psid	P60	0 to 60 psid	P100	0 to 100 psid
SENSOR HOUSING MATERIAL	A	Aluminum, black								
	S	316L Stainless steel								
O-RING MATERIAL	2	Viton	3	Buna N	4	Ethylene Propylene				
CASE MATERIAL	P	Thermoplastic								
LENS	1	Acrylic	2	Safety Glass	3	Acrylic with MIP	4	Acrylic with Alarm Contacts		
FILL FLUID	GY	Glycerine	SL	Silicone	HL	Halocarbon				

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE

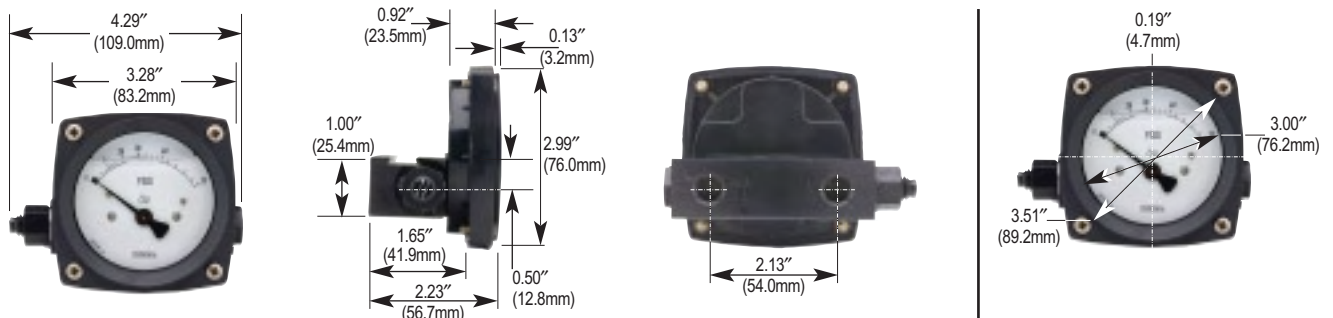
Gauge size & Series 2-1/2 Inch – Series 1000
 Connection Location Back
 Connection Size 1/4" NPT female
 Pressure Range 0 psid to 5 psid
 Sensor Housing Material Aluminum, black
 O-Ring Material Viton
 Case Material Thermoplastic
 Lens Acrylic
 Fill Fluid Glycerine

25-10 1 2 - P5 - A 2 P - 1 - GY

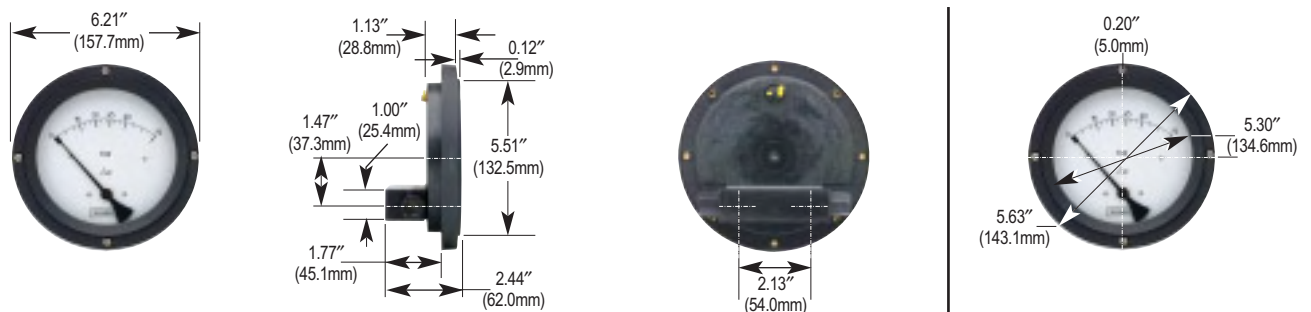
OUTLINE DIMENSIONS

PANEL CUT-OUT DIMENSIONS

2-1/2 Inch Gauge



4-1/2 Inch Gauge



Differential Gauge - Diaphragm Type



1100 SERIES

- Precisely measures pressure drops across filters, strainers, separators, heat exchangers and applications where a higher level of solids are present in the measuring media
- High side is completely isolated from low side to prevent fluid movement between ports
- Maximum static or working pressure to 3,000 psi, 1,500 psi with brass housing
- 2-1/2 and 4-1/2 inch sizes – top & bottom, or back connected
- Sensor housing is cast in a black anodized aluminum, 316L Stainless steel or brass and comes standard with a weather-resistant NEMA 4X enclosure and shatter-resistant acrylic lens
- Optional liquid filling lubricates gauge internals and extends service life by dampening the effects of vibration, pulsation and shock
- Convoluted diaphragm fully supported to the rated working pressure of the gauge
- Shipped with a certificate of calibration to ensure accuracy and quality performance

SPECIFICATIONS

Nominal Sizes	2-1/2 Inch (63.5mm) 4-1/2 Inch (114.3mm)
Case and Bezel Material	Fiberglass reinforced thermoplastic
Lens	Acrylic – standard Laminated safety glass – optional
Sensor Housing Material	Black anodized aluminum – standard 316L Stainless steel – optional Brass - optional
Sensor Material	316 Stainless steel and ceramic magnet
O-Ring Material	Buna N – standard Viton – optional Ethylene propylene – optional
Process Connection	1/4" NPT Female, back connection – standard 1/4" NPT Female, top & bottom – optional
Accuracy	±2% Full Scale for ranges 0 psid to 15 psid & above ±5% Full Scale for ranges below 0 psid to 15 psid
Dial	Aluminum, white background with black markings.
Pointer	Balanced aluminum, black finish
Gauge Fill Fluid	Glycerine – optional Others available – please consult factory
Operating Temp.	-40°F to 200°F (-40°C to 93°C)
Ranges	0 to 50 inH ₂ O through 0 psid to 100 psid
Max. Working Static Pressure	3000 psig – 316L Stainless steel and aluminum housing 1500 psig – brass housing

APPLICATIONS

- Filters
- Flow indicators
- Heat exchangers
- Back flow restrictors
- Hydraulic and pneumatic systems
- Water treatment systems
- Pumps and compressors
- Industrial machinery and machine tools

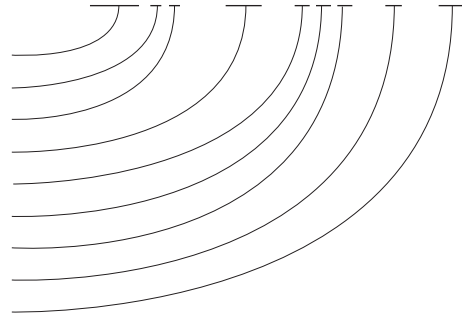
ORDERING INFORMATION								
GAUGE SIZE & SERIES	25 - 11	2-1/2 Inch	45 - 11	4-1/2 Inch				
CONNECTION LOCATION	0	Top & bottom		1	Back			
CONNECTION SIZE	2	1/4" NPT female						
PRESSURE RANGE	W50	0 to 50 inH ₂ O	W300	0 to 300 inH ₂ O	P15	0 to 15 psid	P75	0 to 75 psid
	W75	0 to 75 inH ₂ O	W400	0 to 400 inH ₂ O	P25	0 to 25 psid	P100	0 to 100 psid
	W100	0 to 100 inH ₂ O	P5	0 to 5 psid	P30	0 to 30 psid		
	W200	0 to 200 inH ₂ O	P10	0 to 10 psid	P50	0 to 50 psid		
SENSOR HOUSING MATERIAL	A	Aluminum, black		B	Brass			
	S	316L Stainless steel						
O-RING MATERIAL	2	Viton		3	Buna N		4	Ethylene propylene
CASE MATERIAL	P	Thermoplastic						
LENS	1	Acrylic		2	Safety Glass		3	Acrylic with MIP
FILL FLUID (optional)	GY	Glycerine		SL	Silicone		HL	Halocarbon

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EXAMPLE

Gauge Size & Series 2-1/2 Inch – Series 1100
 Connection Location Back
 Connection Size 1/4" NPT female
 Pressure Range 0 psid to 75 psid
 Sensor Housing Material Aluminum, black
 O-Ring Material Viton
 Case Material Thermoplastic
 Lens Acrylic
 Fill Fluid (optional) Glycerine

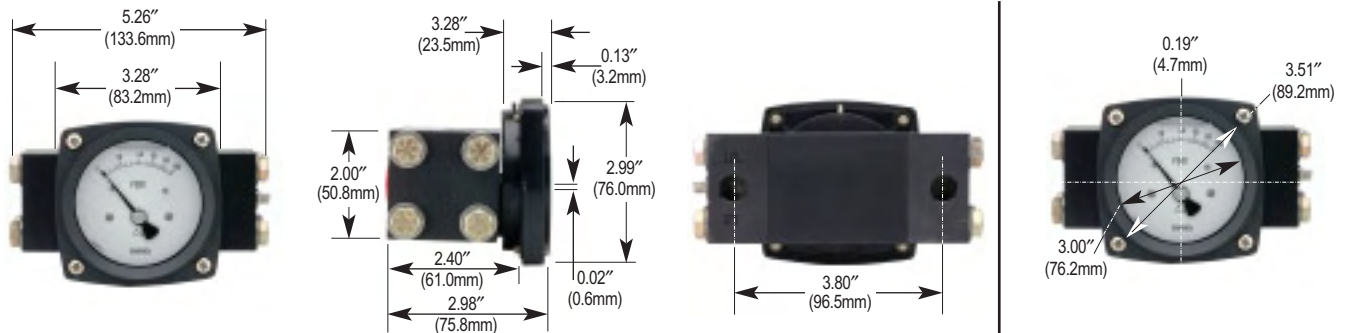
25-11 1 2 - P75 - A 2 P - 1 - GY



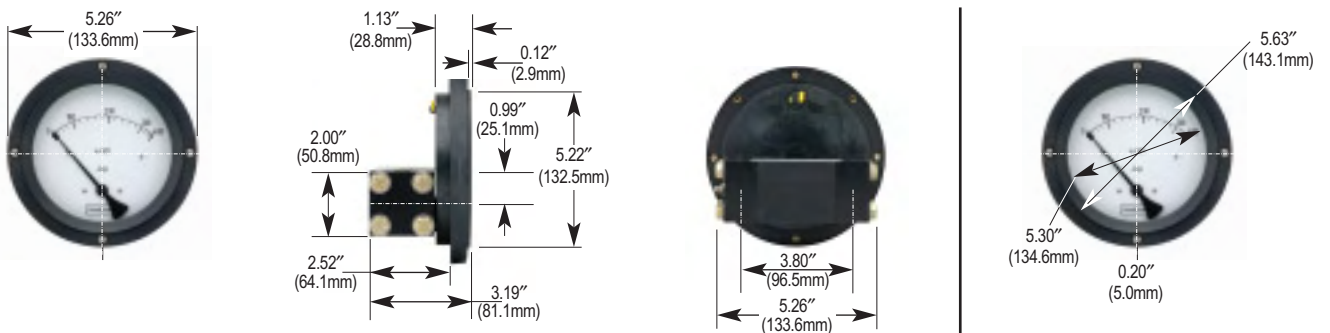
OUTLINE DIMENSIONS

PANEL CUT-OUT DIMENSIONS

2-1/2 Inch Gauge



4-1/2 Inch Gauge



Differential Gauge - Membrane Type High Static Pressure



1200 SERIES

- Designed for applications requiring high static pressure & high differential pressure measurement
- Maximum static or working pressure to 3,000 psi
- Full scale accuracy of $\pm 1\%$ on rising pressure – zero adjustment standard
- 4-1/2 and 6 inch sizes – top & bottom, or back connected
- Durable case construction with weather-resistant NEMA 4X rating & shatter-resistant acrylic lens
- A bi-directional overpressure valve protects the sensor membrane from damage
- Monel membranes and 316L Stainless steel wetted parts
- Optional liquid filling lubricates gauge internals and extends service life by dampening the effects of vibration, pulsation and shock
- Shipped with a certificate of calibration to ensure accuracy and quality performance

APPLICATIONS

- Filters
- Flow indicators
- Heat exchangers
- Back flow indicators
- Hydraulic and pneumatic systems
- Water treatment systems
- Pumps and compressors
- Cryogenic gases and corrosive media

SPECIFICATIONS

Nominal Sizes	4-1/2 Inch (114.3mm) 6 Inch (152mm)
Dial Case Material	Black anodized aluminum – standard 316L Stainless steel – optional
Bezel Material	316L Stainless steel
Lens	Acrylic – standard Laminated safety glass – optional
Sensor Housing	316L Stainless steel
Membrane Fill	Halocarbon
Sensor Element	Monel 500 – standard
O-Ring Material	PTFE
Process Connection	1/4" NPT Female, back connection – standard 1/4" NPT Female, dual top & bottom – optional
Movement	Stainless steel
Accuracy	$\pm 1\%$ of Full Scale or rising pressure
Dial	Aluminum, white background with black markings – standard Aluminum, black background with white markings – optional
Pointer	Balanced aluminum, black finish
Gauge Fill Fluid	Glycerine – optional Others available – please consult factory
Operating Temp.	-40°F to 200°F (-40°C to 93°C)
Ranges	0 to 100 inH ₂ O through 0 to 600 psid
Max. Working Static Pressure	3000 psig

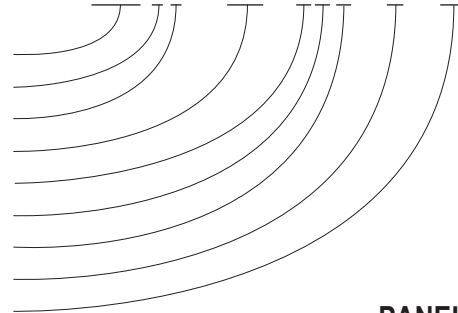
ORDERING INFORMATION					
GAUGE SIZE & SERIES	45 - 12	4-1/2 Inch	60 - 12	6 Inch	
CONNECTION LOCATION	0	Top & bottom	1	Back	
CONNECTION SIZE	2	1/4" NPT female			
PRESSURE RANGE	W100	0 to 100 inH ₂ O	W400	0 to 400 inH ₂ O	P100 0 to 100 psid
	W150	0 to 150 inH ₂ O	P15	0 to 15 psid	P230 0 to 230 psid
	W200	0 to 200 inH ₂ O	P30	0 to 30 psid	P300 0 to 300 psid
	W300	0 to 300 inH ₂ O	P60	0 to 60 psid	P400 0 to 400 psid
SENSOR HOUSING MATERIAL	S	316L Stainless steel			
O-RING MATERIAL	1	PTFE			
CASE MATERIAL	A	Aluminum, black	S	316L Stainless steel	
LENS	1	Acrylic	2	Safety glass	
FILL FLUID (optional)	GY	Glycerine	SL	Silicone	HL Halocarbon

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EXAMPLE

Gauge Size & Series 6 Inch—Series 1200
 Connection Location Top & Bottom
 Connection Size 1/4" NPT female
 Pressure Range 0 psid to 15 psid
 Sensor Housing Material 316L Stainless steel
 O-Ring Material PTFE
 Case Material Aluminum, black
 Lens Safety glass
 Fill Fluid (optional) Glycerine

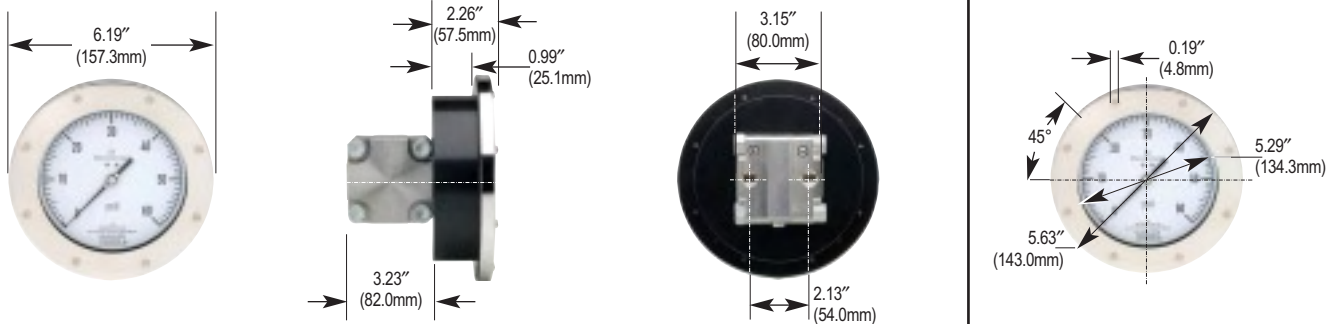
60-12 0 2 - P15 - S 1 A - 2 - GY



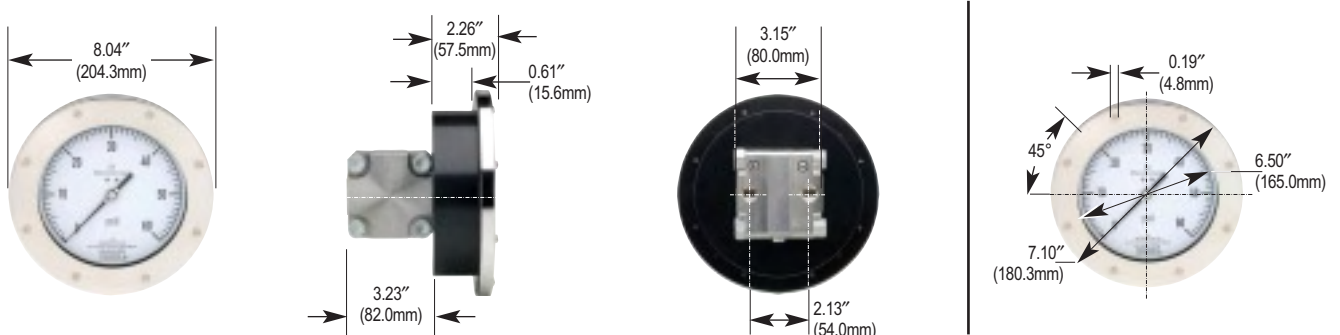
OUTLINE DIMENSIONS

PANEL CUT-OUT DIMENSIONS

4-1/2 Inch Gauge



6 Inch Gauge



Differential Gauge - Membrane Type Nominal Static Pressure



1300 SERIES

- Designed for integral process applications requiring nominal static and low differential pressure measurement
- Maximum static or working pressure to 600 psi
- Full scale accuracy of $\pm 1\%$, on rising pressure - zero adjustment standard
- 4-1/2 and 6 inch sizes – top & bottom, or back connected
- Durable case construction with weather-resistant NEMA 4X rating & shatter-resistant acrylic lens
- A bi-directional overpressure valve protects the sensor membrane from damage
- 316L Stainless steel wetted parts
- Optional liquid filling lubricates gauge internals and extends service life by dampening the effects of vibration, pulsation and shock
- Shipped with a certificate of calibration to ensure accuracy and quality performance

APPLICATIONS

- Settings which include caustic liquid or gaseous media and/or low temperature gases
- Filters
- Flow indicators
- Heat exchangers
- Back flow indicators
- Hydraulic and pneumatic systems
- Water treatment systems
- Pumps and compressors
- Cryogenic gases and corrosive media

SPECIFICATIONS

Nominal Sizes	4-1/2 Inch (114.3mm) 6 Inch (152mm)
Dial Case Material	Black anodized aluminum – standard 316L Stainless steel – optional
Bezel Material	316L Stainless steel
Lens	Acrylic – standard Laminated safety glass – optional
Sensor Housing	316L Stainless steel
Membrane Fill	Halocarbon
Sensor Element	316L Stainless steel (NACE compliant)
O-Ring Material	PTFE, Viton or Buna N – optional
Process Connection	1/4" NPT Female, dual top & bottom – standard 1/4" NPT Female, back connection – optional
Movement	Stainless steel
Accuracy	$\pm 1\%$ of Full Scale on rising pressure
Dial	Aluminum, black background with white markings – standard Aluminum, white background with black markings – optional
Pointer	Balanced aluminum, black finish
Gauge Fill Fluid	Glycerine – optional Others available – please consult factory
Operating Temp.	-40°F to 200°F (-40°C to 93°C)
Ranges	0 to 100 inH ₂ O through 0 to 400 psid
Max. Working Static Pressure	600 psig

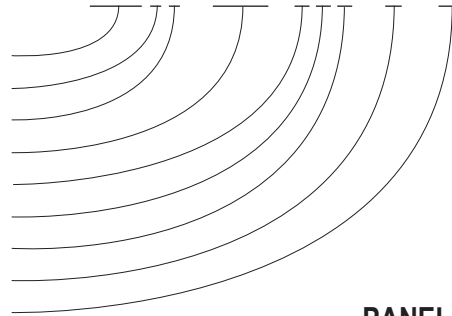
ORDERING INFORMATION						
GAUGE SIZE & SERIES	45 - 13	4-1/2 Inch	60 - 13	6 Inch		
CONNECTION LOCATION	0	Top & bottom	1	Back		
CONNECTION SIZE	2	1/4" NPT female				
PRESSURE RANGE	W100	0 to 100 inH ₂ O	W400	0 to 400 inH ₂ O	P100	0 to 100 psid
	W150	0 to 150 inH ₂ O	P15	0 to 15 psid	P230	0 to 230 psid
	W200	0 to 200 inH ₂ O	P30	0 to 30 psid	P300	0 to 300 psid
	W300	0 to 300 inH ₂ O	P60	0 to 60 psid	P400	0 to 400 psid
SENSOR HOUSING MATERIAL	S	316L Stainless steel				
O-RING MATERIAL	1	PTFE				
CASE MATERIAL	A	Aluminum, black	S	316L Stainless steel		
LENS	1	Acrylic	2	Safety glass		
FILL FLUID (optional)	GY	Glycerine	SL	Silicone	HL	Halocarbon

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EXAMPLE

Gauge Size & Series 4-1/2 Inch-Series 1300
Connection Location Top & Bottom
Connection Size 1/4" NPT female
Pressure Range 0 to 100 inH₂O
Sensor Housing Material 316L Stainless steel
O-Ring Material PTFE
Case Material Aluminum, black
Lens Safety glass
Fill Fluid (optional) Glycerine

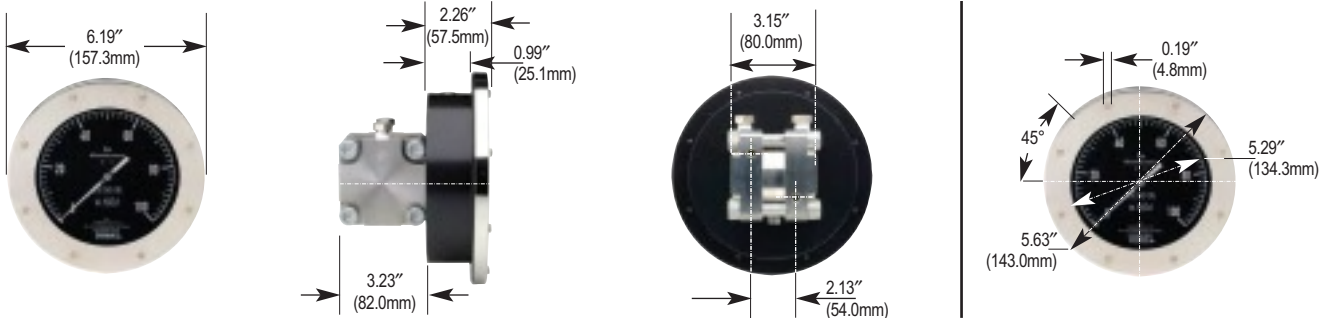
45-13 0 2 - W100 - S 1 A - 2 - GY



OUTLINE DIMENSIONS

PANEL CUT-OUT DIMENSIONS

4-1/2 Inch Gauge



6 Inch Gauge

