

All Stainless Steel, Dry & Liquid Filled, Extreme High Pressure

402/502 SERIES



- Corrosion-resistant dry or liquid-filled gauge for high pressure applications
- Ranges from 0 psi to 30,000 psi through 0 psi to 85,000 psi
- 4" and 6" gauge sizes
- Solid front design with a blow out back in accordance to EN 837, S3 Safety Pattern
- Stainless Steel case
- NiFe alloy/316L Stainless Steel wetted parts
- DIN 16001 compliant

OPERATING SPECIFICATIONS

1. Working Pressure Limitations

a. Dynamic Pressure

The working pressure should be limited to 65% of the dial range.

b. Static Pressure

The working pressure, where no sharp fluctuations occur, should be limited to 75% of the dial range

APPLICATIONS

- Pumps & compressors
- High pressure processing
- Test equipment & systems
- Water jet cutting

	SERIES	SPECIFICATIONS
Pressure ranges	402, 412 & 500 Series	0 psi to 30,000 psi through 0 psi to 85,000 psi
Accuracy	≤40,000 psi	±1.6% full scale (optional 1% increased accuracy)
	≥50,000 psi	±1% full scale (85,000 psi is ±1.6% accuracy)
Temperature ranges*	402 & 412 Series	Media -40 °F to 392 °F (-40 °C to 200 °C) Ambient -40 °F to 140 °F (-40 °C to 60 °C)
	502 Series	Media -4 °F to 212 °F (-20 °C to 100 °C) Glycerin fill Ambient -4 °F to 140 °F (-20 °C to 60 °C) Glycerin fill
Measuring element	402/502 Series (all)	NiFe alloy
Connection	402/502 Series (all)	316L Stainless Steel
Case	402/502 Series (all)	Stainless Steel, solid front with blowout back
Cover ring	402/502 Series (all)	Stainless Steel bayonet ring
Lens	402/502 Series (all)	Laminated safety glass
Pointer	402/502 Series (all)	Black finished Aluminum
Dial	402/502 Series (all)	Aluminum, white background with black scale. UV resistant.
Movement	402/502 Series (all)	Stainless Steel with highly polished bearing surfaces
Fill liquids	502 Series (Bottom connected only)	Glycerin

* For every 68 °F (20 °C) shift in temperature from which the gauge is calibrated, the user can experience up to ±0.4% additional error.

For details on accuracy/standard dial configuration and dial layouts, see pages 56-61.

ORDERING INFORMATION				
GAUGE SIZE	40 4"	60 6" *		
CASE TYPES	402 Dry, bottom connection	412 Dry, lower back connection	502 Liquid filled, bottom connection	
PRESSURE RANGES	30000 0 psi to 30,000 psi	50000 0 psi to 50,000 psi	75000 0 psi to 75,000 psi	
	40000 0 psi to 40,000 psi	60000 0 psi to 60,000 psi	85000 0 psi to 85,000 psi **	
SCALE OPTIONS	psi psi single scale	psi/kg/cm ² psi/kg/cm ² dual scale		
	psi/kPa psi/kPa dual scale	psi/bar psi/bar dual scale		
CONNECTION SIZES ***	9/16-18 9/16"-18 UNF 2B high pressure cone - Female	9/16-HPM 9/16"-18 UNF 2A left hand thread - Male		
OPTIONS	BRSP Bayonet Ring Adjustable Set Pointer	SP Red Set Pointer	IA Increased Accuracy	
	LM Laser Marking	SSFF 304SS Front Flange		
	SL Silicone Fill	ST Stainless Steel Tagging		

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

NOTE: Cleaning for Oxygen Service (O2) is available only for dry or HL filled gauges

* Bottom connection only.

** Only available on 60-402 and 60-502 models, with $\pm 1.6\%$ accuracy.

*** Additional process connection sizes available, consult factory.

EXAMPLE

40 - 502 - 30000 - psi - 9/16-HPM^{††} - BRSP

Gauge size4"

Case typeLiquid filled, bottom connection

Pressure range & scale option0 psi to 30,000 psi

Connection size^{††}9/16"-18 UNF 2A left hand thread - Male

Option.....Bayonet Ring Adjustable Set Pointer

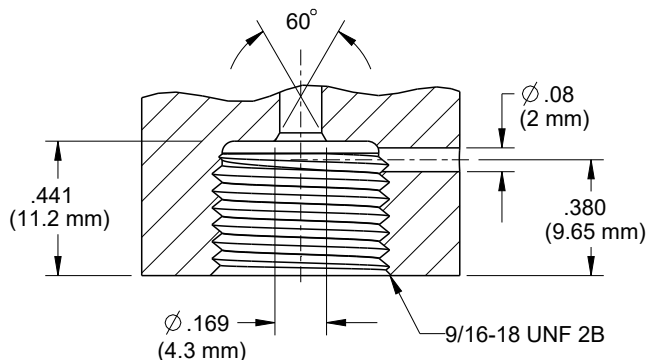
^{††} Only include in part number if non-standard connection size is ordered.

NOTES: See standard connection sizes chart on page 49.

Shaded portions of this part number example are not required unless a non-standard connection size or an option is needed.

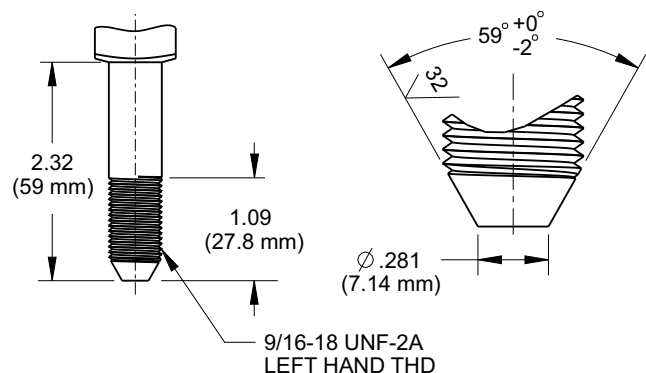
9/16"-18 UNF 2B High Pressure Cone Connection

Female



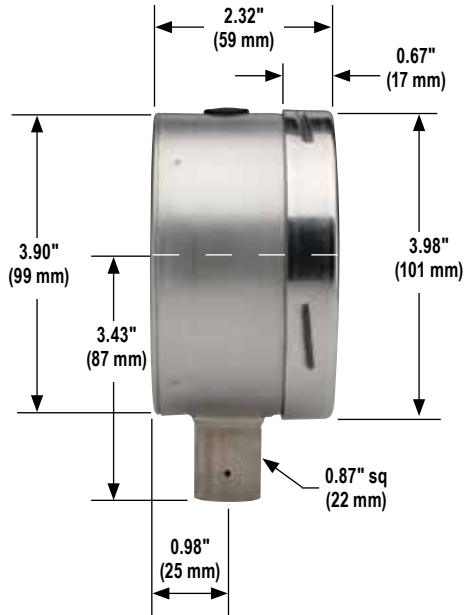
9/16"-18 UNF 2A left hand thread

Male

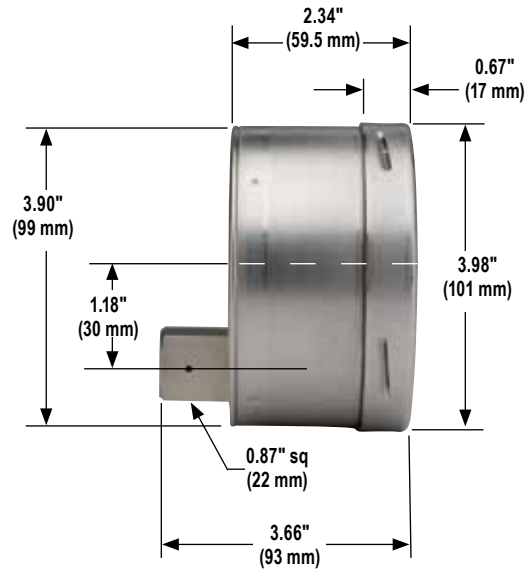


Dimensions

40-402/502



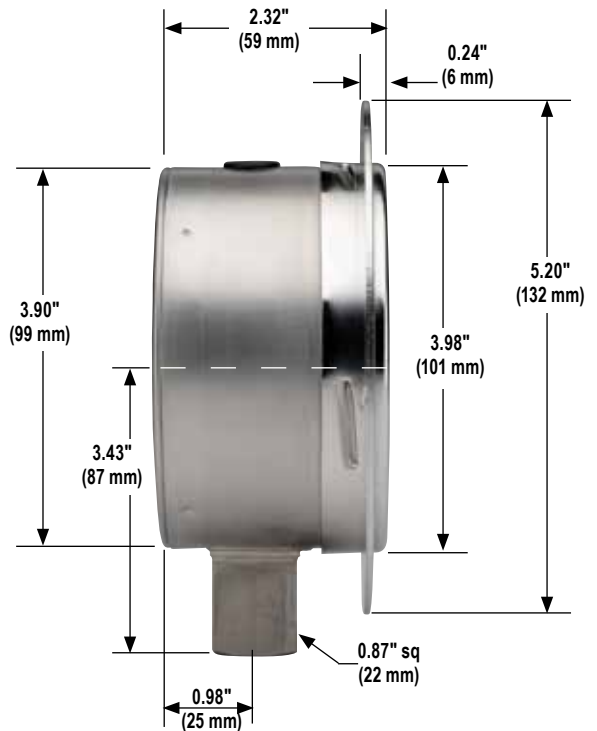
40-412



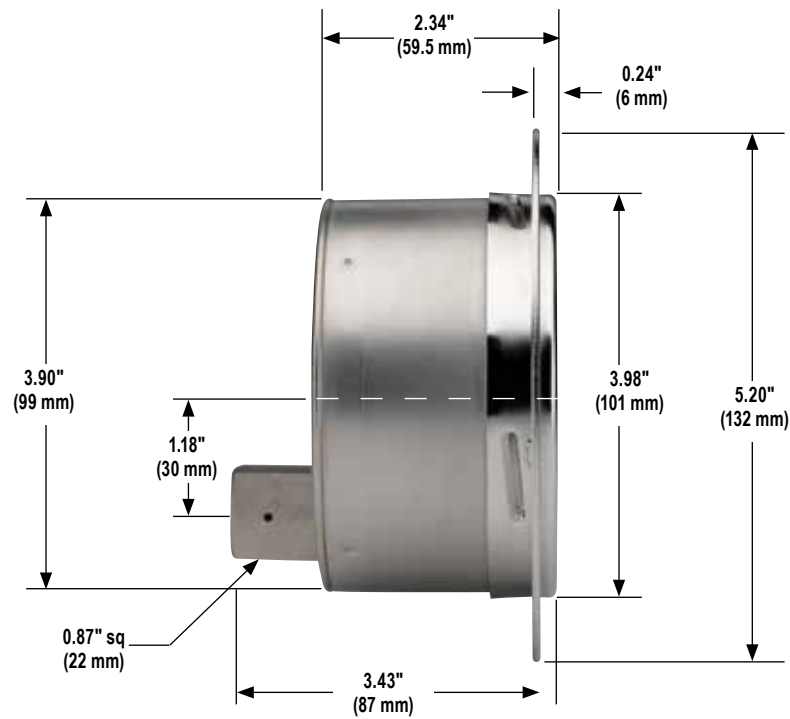
60-402/502



40-402/502 Front Flange



40-412 Front Flange



60-402/502 Front Flange

