

# Process



## 600/700 SERIES

- Turret style dry or liquid-filled gauge
- Vacuum and compound ranges through 0 psi to 15,000 psi
- 4-1/2" gauge sizes
- Black phenolic safety case with solid front and blow-out back PBT
- Phosphor bronze, 316 Stainless Steel and Brass wetted parts

### OPERATING SPECIFICATIONS

#### 1. Working Pressure Limitations

##### a. Dynamic Pressure

The working pressure should be limited to 60% of the dial range.

##### b. Static Pressure

The working pressure, where no sharp fluctuations occur, should be limited to 90% of the dial range

### APPLICATIONS

- Injection molding machines
- Laboratory & test equipment
- Power generation
- Oil field & offshore
- Utilities
- Water & wastewater

	SERIES	SPECIFICATIONS
Pressure ranges	600/700 Series (all)	Vacuum and compound ranges through 0 psi to 15,000 psi
Accuracy	600/700 Series (all)	±0.5% full scale
Temperature ranges*	45-640	Media -4 °F to 150 °F (-20 °C to 65 °C) Ambient -40 °F to 150 °F (-40 °C to 65 °C)
	45-740	Media -40 °F to 212 °F (-40 °C to 100 °C) 500 °F (260 °C) Maximum for short term/intermittent Ambient -40 °F to 150 °F (-40 °C to 65 °C)
	45-660	Media -4 °F to 150 °F (-20 °C to 65 °C) Glycerin fill -40 °F to 150 °F (-40 °C to 65 °C) Special fill Ambient -4 °F to 150 °F (-20 °C to 65 °C) Glycerin fill -40 °F to 150 °F (-40 °C to 65 °C) Special fill
	45-760	Media -4 °F to 212 °F (-20 °C to 100 °C) Glycerin fill -40 °F to 212 °F (-40 °C to 100 °C) Special fill 250 °F (130 °C) Maximum for short term/intermittent Ambient -4 °F to 150 °F (-20 °C to 65 °C) Glycerin fill -40 °F to 150 °F (-40 °C to 65 °C) Special fill
Case	600/700 Series (all)	Turret style black phenolic case. Solid front, safety case with blow-out back PBT.
Bayonet ring	600/700 Series (all)	Threaded black PBT
Lens	600/700 Series (all)	Acrylic
Measuring Element	45-640, 45-660 (≤ 600 psi)	Copper alloy C-Type Bourdon tube
	45-740, 45-760 (≤ 600 psi)	316 Stainless Steel C-Type Bourdon tube
	600/700 Series (all) (>600 psi)	316 Stainless Steel coiled safety Bourdon tube
Connection	45-640, 45-660	1/4" NPT, Brass
	45-740, 45-760	1/4" NPT or 1/2" NPT, 316 Stainless Steel
Movement	45-640, 45-660	Brass and Nickel-silver with highly polished bearing surfaces. An internal zero stop is standard.
	45-740, 45-760	Stainless Steel with highly polished bearing surfaces. An internal zero stop is standard.
Pointer	600/700 Series (all)	Balanced micro-adjustable Aluminum, black finish
Dial	600/700 Series (all)	Aluminum, white background with black scale. UV resistant.
Fill liquid **	45-660, 45-760	Glycerin

\* For every 18 °F (10 °C) shift in temperature from which the gauge is calibrated, the user can experience up to ±0.4% additional error.

\*\* See page 51 for gauge fill options.

For details on accuracy/standard dial configuration and dial layouts, see pages 52-56.

NOSHOK 600 Series Gauges:



**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

NOSHOK 700 Series Gauges:



**WARNING:** This product can expose you to chemicals including Chromium (VI) and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

ORDERING INFORMATION					
<b>GAUGE SIZES</b>	<b>45</b> 4-1/2"				
<b>CASE TYPES</b>	<b>640</b>	Brass, dry, bottom connection	<b>660</b>	Brass, liquid filled, bottom connection	
	<b>740</b>	SS, dry, bottom connection	<b>760</b>	SS, liquid filled, bottom connection	
<b>PRESSURE RANGES</b>	<b>30vac</b>	-30 inHg to 0 psi	<b>30/300</b>	-30 inHg to 0 to 300 psi	<b>300</b> 0 psi to 300 psi
	<b>30/15</b>	-30 inHg to 0 to 15 psi	<b>15</b>	0 psi to 15 psi	<b>400</b> 0 psi to 400 psi
	<b>30/30</b>	-30 inHg to 0 to 30 psi	<b>30</b>	0 psi to 30 psi	<b>600</b> 0 psi to 600 psi
	<b>30/60</b>	-30 inHg to 0 to 60 psi	<b>60</b>	0 psi to 60 psi	<b>800</b> 0 psi to 800 psi
	<b>30/100</b>	-30 inHg to 0 to 100 psi	<b>100</b>	0 psi to 100 psi	<b>1000</b> 0 psi to 1,000 psi
	<b>30/160</b>	-30 inHg to 0 to 160 psi	<b>160</b>	0 psi to 160 psi	<b>1500</b> 0 psi to 1,500 psi
	<b>30/200</b>	-30 inHg to 0 to 200 psi	<b>200</b>	0 psi to 200 psi	<b>2000</b> 0 psi to 2,000 psi
<b>SCALE OPTIONS</b>	<b>psi</b>	psi single scale	<b>psi/kg/cm<sup>2</sup></b>	psi/kg/cm <sup>2</sup> dual scale	<b>psi/bar</b> psi/bar dual scale
<b>CONNECTION SIZES</b>	<b>1/4</b>	1/4" NPT	<b>1/2</b>	1/2" NPT	
<b>OPTIONS</b>	<b>SG</b>	Safety Glass Lens	<b>CPMR</b>	Uninstalled Chrome Panel Mount Ring	<b>BP3</b> Brass Press Fit Orifice 0.3 mm
	<b>GL</b>	Glass Lens	<b>OS</b>	Overload Stop	<b>BT3</b> Brass Threaded Orifice 0.3 mm
	<b>MIP</b>	Maximum Indicating Pointer	<b>LM</b>	Laser Marking	<b>ST8</b> 316SS Threaded Orifice 0.8 mm
	<b>BPMR</b>	Uninstalled Black Panel Mount Ring	<b>ST</b>	Stainless Steel Tagging	

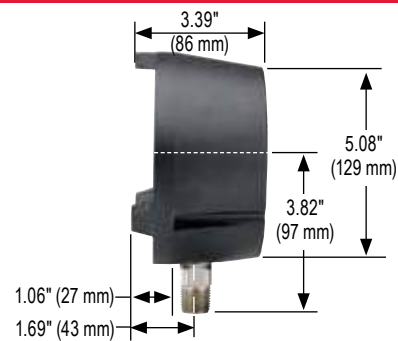
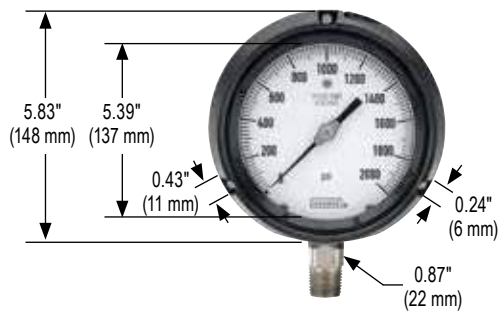
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

NOTE: Refer to 600/700 Series Options & Accessories chart on page 52 for availability by part number.

### EXAMPLE

**Gauge size** ..... 4-1/2" **45**  
**Case type** ..... SS internals, dry, bottom connection **740**  
**Pressure range & scale option** ..... 0 psi to 100 psi **100 - psi**  
**Connection size** ..... 1/2" NPT **1/2**  
**Option** ..... 316SS Threaded Orifice 0.8 mm **ST8**

### 45-640/660 & 45-740/760



### 45-640/660 & 45-740/760 Panel Mount Ring

