

# Process



## 600/700 SERIES

- Turret style dry (field fillable) and liquid filled process gauges
- Vacuum and compound ranges through 0 psi to 15,000 psi
- 4-1/2" gauge sizes
- Black Polypropylene safety case with solid front and blow-out back
- 316 Stainless Steel or Brass wetted parts

### OPERATING SPECIFICATIONS

#### 1. Working Pressure Limitations

##### a. Dynamic Pressure

The working pressure should be limited to 60% of the dial range.  
Max. 0.9x full scale.

##### b. Static Pressure

The working pressure, where no sharp fluctuations occur, should be limited to 90% of the dial range.  
Max. 1x full scale.

##### c. Short term max. 1.5x full scale (<10,000 psi).

### APPLICATIONS

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

\* 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.

	SERIES	SPECIFICATIONS
<b>Pressure ranges</b>	600/700 Series (all)	Vacuum and compound ranges through 0 psi to 15,000 psi
<b>Accuracy</b>	600/700 Series (all)	±0.5% full scale
<b>Temperature ranges*</b>	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
<b>Case</b>	600/700 Series (all)	Turret style black Polypropylene case, Solid front, safety case with blow-out back
<b>Bayonet ring</b>	600/700 Series (all)	Threaded black PBT
<b>Lens</b>	600/700 Series (all)	Acrylic
<b>Measuring Element</b>	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
<b>Connection</b>	45-640, 45-660	1/4" NPT, brass
	45-740, 45-760	1/4" NPT or 1/2" NPT, 316 Stainless Steel
<b>Movement</b>	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.
<b>Pointer</b>	600/700 Series (all)	Balanced micro-adjustable aluminum, black finish
<b>Dial</b>	600/700 Series (all)	Aluminum, white background with black scale. UV resistant.
<b>Fill liquid **</b>	45-660, 45-760	Glycerin

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 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)



NOSHOK 700 Series Gauges:

**WARNING:** This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. 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>30/15</b>	-30 inHg to 0 to 15 psi		<b>15</b>	0 psi to 15 psi
	<b>30/30</b>	-30 inHg to 0 to 30 psi		<b>30</b>	0 psi to 30 psi
	<b>30/60</b>	-30 inHg to 0 to 60 psi		<b>60</b>	0 psi to 60 psi
	<b>30/100</b>	-30 inHg to 0 to 100 psi		<b>100</b>	0 psi to 100 psi
	<b>30/160</b>	-30 inHg to 0 to 160 psi		<b>160</b>	0 psi to 160 psi
	<b>30/200</b>	-30 inHg to 0 to 200 psi		<b>200</b>	0 psi to 200 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>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>GL</b>	Glass Lens		<b>OS</b>	Overload Stop
	<b>MIP</b>	Maximum Indicating Pointer*		<b>LM</b>	Laser Marking
	<b>BPMR</b>	Uninstalled Black Panel Mount Ring		<b>ST</b>	Stainless Steel Tagging
				<b>BT3</b>	Brass Threaded Orifice 0.3 mm
				<b>BT8</b>	Brass Threaded Orifice 0.8 mm
				<b>ST8</b>	316SS Threaded Orifice 0.8 mm

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

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

Cleaning for Oxygen Service (O<sub>2</sub>) is available only for dry or HL filled gauges

\* GY40 fill is standard for liquid filled gauges

### EXAMPLE

45 - 740 - 100 - psi - 1/4<sup>†</sup> - ST8

Gauge size ..... 4-1/2"

Case type ..... SS internals, dry, bottom connection

Pressure range & scale option ..... 0 psi to 100 psi

Connection size<sup>†</sup> ..... 1/4" NPT

Option ..... 316SS Threaded Orifice 0.8 mm

<sup>†</sup> 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.

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

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

