



# 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
- Solid front and blow-out back
- Black Polypropylene safety case, 700 Series low pressure - black PBT safety case
- 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
Pressure ranges	600/700 Series	Vacuum and compound ranges through 0 psi to 15,000 psi
	700 (low pressure)	Vacuum inH <sub>2</sub> O to 10 psi
Accuracy	600/700 Series	±0.5% full scale
	700 (low pressure)	±1.6% 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)
	45-740 (low pressure)	Media -4 °F to 212 °F (-20 °C to 100 °C) Ambient -4 °F to 140 °F (-20 °C to 60 °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	Turret style black Polypropylene case Solid front with blow-out back
	700 Series (low pressure)	Turret style black PBT safety case Solid front with blow-out back
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
	45-740 (low pressure)	316 Stainless Steel diaphragm capsule
	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 details on accuracy/standard dial configuration and dial layouts, see pages 52-56.

**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)

ORDERING INFORMATION					
<b>GAUGE SIZES</b>	45 4-1/2"				
<b>CASE TYPES</b>	640 Brass, dry, bottom connection	660 Brass, liquid filled, bottom connection			
	740 SS, dry, bottom connection	760 SS, liquid filled, bottom connection			
<b>PRESSURE RANGES</b>	30 inH <sub>2</sub> O Vac -30 inH <sub>2</sub> O to 0 inH <sub>2</sub> O	30vac -30 inHg to 0 psi	15 0 psi to 15 psi	1000 0 psi to 1,000 psi	
	60 inH <sub>2</sub> O Vac -60 inH <sub>2</sub> O to 0 inH <sub>2</sub> O	30/15 -30 inHg to 0 to 15 psi	30 0 psi to 30 psi	1500 0 psi to 1,500 psi	
	10 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 10 inH <sub>2</sub> O	30/30 -30 inHg to 0 to 30 psi	60 0 psi to 60 psi	2000 0 psi to 2,000 psi	
	15 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 15 inH <sub>2</sub> O	30/60 -30 inHg to 0 to 60 psi	100 0 psi to 100 psi	3000 0 psi to 3,000 psi	
	20 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 20 inH <sub>2</sub> O	30/100 -30 inHg to 0 to 100 psi	160 0 psi to 160 psi	5000 0 psi to 5,000 psi	
	30 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 30 inH <sub>2</sub> O	30/160 -30 inHg to 0 to 160 psi	200 0 psi to 200 psi	6000 0 psi to 6,000 psi	
	40 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 40 inH <sub>2</sub> O	30/200 -30 inHg to 0 to 200 psi	300 0 psi to 300 psi	10000 0 psi to 10,000 psi	
	60 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 60 inH <sub>2</sub> O	30/300 -30 inHg to 0 to 300 psi	400 0 psi to 400 psi	15000 0 psi to 15,000 psi	
	80 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 80 inH <sub>2</sub> O	5 0 psi to 5 psi	600 0 psi to 600 psi		
	100 inH <sub>2</sub> O 0 inH <sub>2</sub> O to 100 inH <sub>2</sub> O	10 0 psi to 10 psi	800 0 psi to 800 psi		
<b>SCALE OPTIONS</b>	psi psi single scale	psi/kg/cm <sup>2</sup> psi/kg/cm <sup>2</sup> dual scale	psi/bar psi/bar dual scale		
<b>CONNECTION SIZES</b>	1/4 1/4" NPT	1/2 1/2" NPT			
<b>OPTIONS</b>	SG Safety Glass Lens	CPMR Uninstalled Chrome Panel Mount Ring	BT3 Brass Threaded Orifice 0.3 mm		
	GL Glass Lens	OS Overload Stop	BT8 Brass Threaded Orifice 0.8 mm		
	MIP Maximum Indicating Pointer*	LM Laser Marking	ST8 316SS Threaded Orifice 0.8 mm		
	BPMR Uninstalled Black Panel Mount Ring	ST Stainless Steel Tagging			

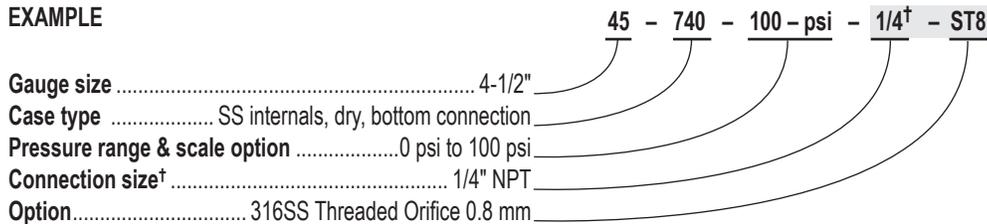
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

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

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

\* GY40 fill is standard for liquid filled gauges

### EXAMPLE



<sup>†</sup> Only include in part number if non-standard connection size is ordered.

NOTES: See standard connection sizes chart on page 54.

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

