

# 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

\* 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 phenolic case. Solid front, safety case with blow-out back PBT.
<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

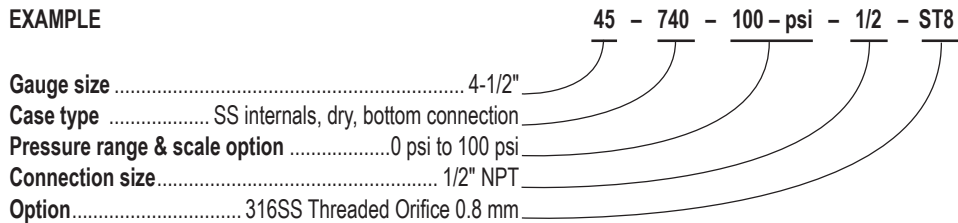
For details on accuracy/standard dial configuration and dial layouts, see pages 52-56.

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>	30vac	-30 inHg to 0 psi	30/300	-30 inHg to 0 to 300 psi
	30/15	-30 inHg to 0 to 15 psi	15	0 psi to 15 psi
	30/30	-30 inHg to 0 to 30 psi	30	0 psi to 30 psi
	30/60	-30 inHg to 0 to 60 psi	60	0 psi to 60 psi
	30/100	-30 inHg to 0 to 100 psi	100	0 psi to 100 psi
	30/160	-30 inHg to 0 to 160 psi	160	0 psi to 160 psi
	30/200	-30 inHg to 0 to 200 psi	200	0 psi to 200 psi
	300	0 psi to 300 psi	3000	0 psi to 3,000 psi
400	0 psi to 400 psi	5000	0 psi to 5,000 psi	
600	0 psi to 600 psi	6000	0 psi to 6,000 psi	
800	0 psi to 800 psi	10000	0 psi to 10,000 psi	
1000	0 psi to 1,000 psi	15000	0 psi to 15,000 psi	
1500	0 psi to 1,500 psi			
2000	0 psi to 2,000 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
	GL	Glass Lens	OS	Overload Stop
	MIP	Maximum Indicating Pointer	LM	Laser Marking
	BPMR	Uninstalled Black Panel Mount Ring	ST	Stainless Steel Tagging
	BP3	Brass Press Fit Orifice 0.3 mm		
	BT3	Brass Threaded Orifice 0.3 mm		
ST8	316SS Threaded Orifice 0.8 mm			

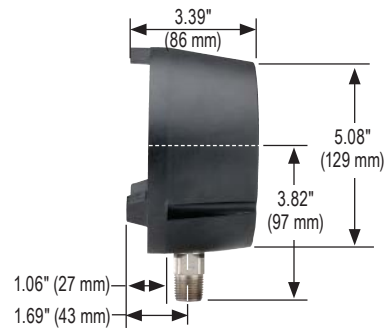
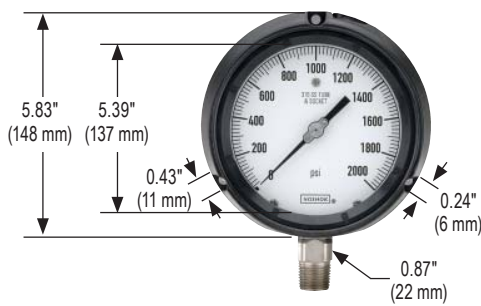
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

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

**EXAMPLE**



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



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

