

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.

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

	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 Polypropylene case, Solid front, safety case 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
	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

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

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

600/700 SERIES

ORDERING
INFORMATION
DIMENSIONS

ORDERING INFORMATION					
GAUGE SIZES	45 4-1/2"				
CASE TYPES	640 Brass, dry, bottom connection		660 Brass, liquid filled, bottom connection		
	740 SS, dry, bottom connection		760 SS, liquid filled, bottom connection		
PRESSURE RANGES	30vac	-30 inHg to 0 psi	30/300	-30 inHg to 0 to 300 psi	300 0 psi to 300 psi
	30/15	-30 inHg to 0 to 15 psi	15	0 psi to 15 psi	400 0 psi to 400 psi
	30/30	-30 inHg to 0 to 30 psi	30	0 psi to 30 psi	600 0 psi to 600 psi
	30/60	-30 inHg to 0 to 60 psi	60	0 psi to 60 psi	800 0 psi to 800 psi
	30/100	-30 inHg to 0 to 100 psi	100	0 psi to 100 psi	1000 0 psi to 1,000 psi
	30/160	-30 inHg to 0 to 160 psi	160	0 psi to 160 psi	1500 0 psi to 1,500 psi
	30/200	-30 inHg to 0 to 200 psi	200	0 psi to 200 psi	2000 0 psi to 2,000 psi
SCALE OPTIONS	psi	psi single scale	psi/kg/cm ²	psi/kg/cm ² dual scale	psi/bar
CONNECTION SIZES	1/4	1/4" NPT	1/2	1/2" NPT	
OPTIONS	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

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

45 - 740 - 100 - psi - 1/4[†] - ST8

[†] 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

