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

	SERIES	SPECIFICATIONS
Pressure ranges	600/700 Series	Vacuum and compound ranges through 0 psi to 15,000 psi
	700 (low pressure)	Vacuum in$H_2$0 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

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.

⚠ **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

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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	**30 inH$_2$O Vac**	-30 inH$_2$O to 0 inH$_2$O	**30vac**	-30 inHg to 0 psi	**15**	0 psi to 15 psi	**1000** 0 psi to 1,000 psi
	60 inH$_2$O Vac	-60 inH$_2$O to 0 inH$_2$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$_2$O	0 inH$_2$O to 10 inH$_2$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$_2$O	0 inH$_2$O to 15 inH$_2$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$_2$O	0 inH$_2$O to 20 inH$_2$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$_2$O	0 inH$_2$O to 30 inH$_2$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$_2$O	0 inH$_2$O to 40 inH$_2$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$_2$O	0 inH$_2$O to 60 inH$_2$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$_2$O	0 inH$_2$O to 80 inH$_2$O	**5**	0 psi to 5 psi	**600**	0 psi to 600 psi	
	100 inH$_2$O	0 inH$_2$O to 100 inH$_2$O	**10**	0 psi to 10 psi	**800**	0 psi to 800 psi	
SCALE OPTIONS	**psi**	psi single scale	**psi/kg/cm^2**	psi/kg/cm^2 dual scale	**psi/bar**	psi/bar dual scale	
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

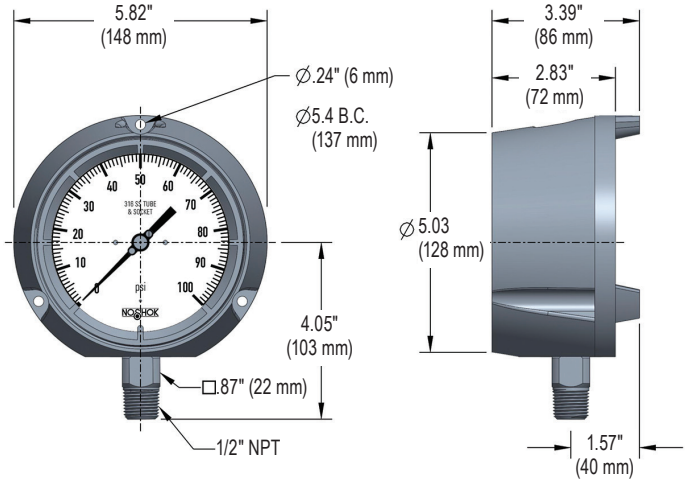
45 – 740 – 100 – psi – 1/4† – ST8

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

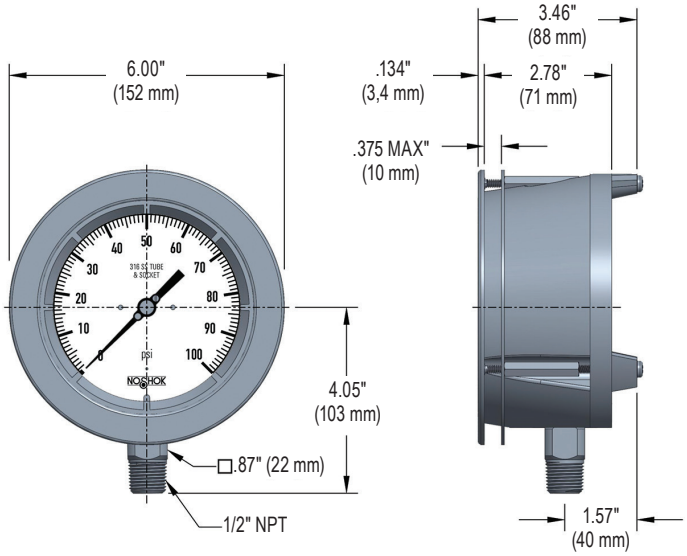
† Only include in part number if non-standard connection size is ordered.

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



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