



600/700 SERIES

- 600 Series (brass) and 700 Series (316 stainless steel) gauges are specifically designed for demanding applications in the chemical and petroleum processing industries
- Extreme high pressure ranges available from vacuum through 60,000 psi
- Low pressure ranges from -30 inH₂O vac through 10 psi
- 4-1/2" size – bottom connected
- Turret style cases are constructed of a rugged, corrosion-resistant phenolic material
- Solid front, safety case with a blow-out back isolates the gauge face from the pressure
- Adjustable pointer
- Standard lenses are shatter resistant acrylic; safety glass lenses available
- Stock availability

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, when no sharp fluctuations occur, should be limited to 90% of the dial range.

2. Ambient Temperature

a. 640/740 Series

-40 °F to 150 °F (-40 °C to 65 °C)

b. 660/760 Series

-4 °F to 150 °F (-20 °C to 65 °C) Glycerine fill
-40 °F to 150 °F (-40 °C to 65 °C) Special fill

3. Media Temperature

a. 640 Series

-4 °F to 150 °F (-20 °C to 65 °C)

b. 660 Series

-4 °F to 150 °F (-20 °C to 65 °C) Glycerine fill
-40 °F to 150 °F (-40 °C to 65 °C) Special fill

c. 740 Series

-40 °F to 212 °F (-40 °C to 100 °C)
500 °F (260 °C)

Maximum for short term/intermittent

d. 760 Series

-4 °F to 212 °F (-20 °C to 100 °C) Glycerine fill
-40 °F to 212 °F (-40 °C to 100 °C) special Fill
250 °F (130 °C) Maximum for short term/intermittent

APPLICATIONS

- Chemical petroleum and petrochemical refineries
- Utilities
- Food processing plants
- Paper mills
- Power generating stations
- Water treatment plants
- Wherever accuracy, safety, readability and reliability are crucial

ACCURACY

- 4-1/2" 600 Series gauges: ±0.5%
- 4-1/2" 700 Series gauges: ±0.5%
- 4-1/2" 700 Series gauges (LP): ±1.5%
- 4-1/2" 700 Series gauges (HP): ±1.0%

	MODELS	SPECIFICATIONS
Case	45-640, 45-660, 45-740, 45-760	Turret style black phenolic. Solid front, safety case with blow-out back
Bayonet ring	45-640, 45-660, 45-740, 45-760	Threaded black phenolic
Lens	45-640, 45-660, 45-740, 45-760	Acrylic. Laminated safety glass is available as a stock option
Measuring Element	45-640, 45-660 (up to 600 psi)	Beryllium copper C-Type Bourdon tube
	45-740, 45-760 (up to 600 psi)	316 Stainless steel C-Type Bourdon tube
	45-640, 45-660, 45-750, 45-760 (>600 psi)	316 Stainless steel coiled safety Bourdon tube
	45-740 (≤ 10 psi)	316 Stainless steel capsule
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.
Safety protection	45-640, 45-660, 45-740, 45-760	Blow-out back on the rear of case.
Accuracy	45-640, 45-660	± 1/2% full scale ASME B40.1 Grade 2A
	45-740, 45-760	± 1/2% full scale ASME B40.1 Grade 2A. ± 1.5% full scale ASME B40.1 Grade A for inH ₂ O, 5 psi and 10 psi ranges. ≥30,000 psi ±1% Grade 1A.
Pointer	45-640, 45-660, 45-740, 45-760	Balanced micro-adjustable aluminum, black finish
Dial	45-640, 45-660, 45-740, 45-760	Aluminum, white background with black markings. Single scale psi is standard. psi/bar, psi/kPa, or psi/Kg/cm ² dual scale are available as stock options. On dual scale dials, the outer scale is psi in black and the inner metric scale is red. UV-resistant.
Fill liquid	45-660, 45-760	Glycerine and water. Silicone and Halocarbon® are available as options.

For details on accuracy/standard dial configuration and dial layouts, see pages 76-81.

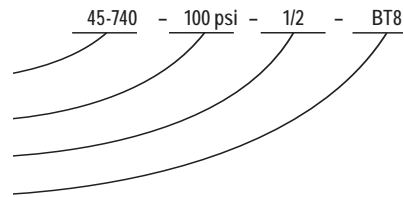
ORDERING INFORMATION												
SERIES	600/700											
SIZES	45 4-1/2"											
CASE TYPES	640	Brass, dry, bottom connection		660	Brass, liquid filled, bottom connection							
	740	SS, dry, bottom connection		760	SS, liquid filled, bottom connection							
PRESSURE RANGES	30 inH ₂ O vac	-30 inH ₂ O to 0 inH ₂ O		30/30	-30 inHg to 0 to 30 psi		60	0 psi to 60 psi				
	60 inH ₂ O vac	-60 inH ₂ O to 0 inH ₂ O		30/60	-30 inHg to 0 to 60 psi		100	0 psi to 100 psi				
	60/60 inH ₂ O	-60 inH ₂ O to 60 inH ₂ O		30/100	-30 inHg to 0 to 100 psi		160	0 psi to 160 psi				
	60 inH ₂ O	0 inH ₂ O to 60 inH ₂ O		30/160	-30 inHg to 0 to 160 psi		200	0 psi to 200 psi				
	100 inH ₂ O	0 inH ₂ O to 100 inH ₂ O		30/200	-30 inHg to 0 to 200 psi		300	0 psi to 300 psi				
	160 inH ₂ O	0 inH ₂ O to 160 inH ₂ O		30/300	-30 inHg to 0 to 300 psi		400	0 psi to 400 psi				
	200 inH ₂ O	0 inH ₂ O to 200 inH ₂ O		5	0 psi to 5 psi		600	0 psi to 600 psi				
	300 inH ₂ O	0 inH ₂ O to 300 inH ₂ O		10	0 psi to 10 psi		800	0 psi to 800 psi				
	30vac	-30 inHg to 0 psi		15	0 psi to 15 psi		1000	0 psi to 1,000 psi				
	30/15	-30 inHg to 0 to 15 psi		30	0 psi to 30 psi		1500	0 psi to 1,500 psi				
SCALE OPTIONS	inH ₂ O	inH ₂ O	single scale	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		9/16-18	9/16-18 UNF 3B (above 30,000 psi standard)				
OPTIONS	SGL	Safety Glass Lens			CPMR	Uninstalled Chrome Panel Mount Ring			ST	Stainless Steel Tagging		
	GL	Glass Lens			MDM	Manocont Dampened Movement			BP3	Brass Press Fit Orifice 0.3 mm		
	MIP	Maximum Indicating Pointer			OS	Overload Stop			BT3	Brass Threaded Orifice 0.3 mm		
	BPMR	Uninstalled Black Panel Mount Ring			LM	Laser Marking			ST8	316SS Threaded Orifice 0.8 mm		

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

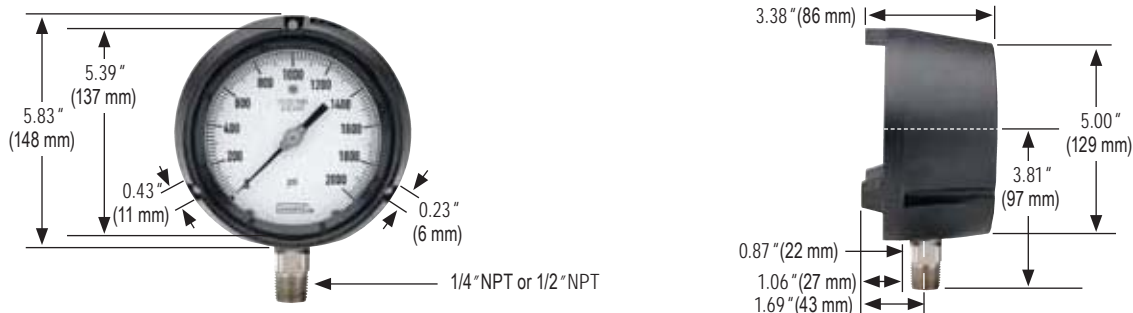
NOTE: Refer to 600/700 Series Options & Accessories chart on page 68 for availability by model number.

EXAMPLE

1. Select model number (size & case type)
2. Select pressure range & scale option
3. Select connection size (if more than one is offered)
4. Select any required accessory or option



45-640/660 & 45-740/760












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



Options & Accessories by Gauge Series





400/500 SERIES ALL STAINLESS STEEL PRESSURE GAUGES DRY, LIQUID & AMMONIA GAUGE ACCESSORIES

- = Option/accessory is available
- C = Consult factory for availability
- STD = Standard stock model specification

MODEL NO.	15-401	15-411	25-400	25-410	40-400	40-410	60-400	60-410	25-406
			25-500	25-510	40-500	40-510	60-500	60-510	25-506
CONNECTION									
304 SS Front Flange (SSFF)				•	•	•	•	•	
304 SS Rear Flange (SSRF)			C	C	•	•	•	•	C
SS Bezel w/U-Clamp (SSBU)						•		•	
Installed 304SS Panel Mount Clamp (SPMC)				•					
Uninstalled 304SS Panel Mount Clamp (25-459-1-SS-PMC)				•					
Installed Steel Panel Mount Clamp (PMC)				•					
Uninstalled Steel Panel Mount Clamp (25-459-1-PMC)				•					
Flange Ring (FR)				•					
Flange Ring 304SS (SSFR)				•					
Adjustable Pointer (AP)					•	•	STD	STD	
Safety Glass Lens (SGL)			•	•	•	•	STD	STD	•
Maximum Indicating Pointer (MIP)			•	•	•	•	•	•	•
Red Set Pointer (SP)			•	•	•	•	•	•	•
Laser Marking (LM)	•	•	•	•	•	•	•	•	•
Stainless Steel Tagging (ST)	•	•	•	•	•	•	•	•	•
Orifice - 316SS Threaded Orifice - 0.8 mm (ST8)	•	•	•	•	•	•	•	•	•
Orifice - 316SS Threaded Orifice - 0.5 mm (ST5)	•	•	•	•	•	•	•	•	•


STANDARD ORIFICE FOR 400/500 SERIES GAUGE IS 0.8 MM THREADED, UNLESS OTHERWISE SPECIFIED.
Consult factory for additional non-stock and special accessory availability.

600/700 SERIES PROCESS GAUGE ACCESSORIES

MODEL NO.	DRY		LIQUID FILLED	
	45-640	45-740	45-660	45-760
CONNECTION				
Safety Glass Lens (SGL)	•	•	•	•
Glass Lens (GL)	•	•	•	•
Maximum Indicating Pointer (MIP)	•	•	•	•
Uninstalled Black Panel Mount Ring (BPMR)	•	•	•	•
Uninstalled Chrome Panel Mount Ring (CPMR)	•	•	•	•
Manocont "Dampened" Movement (MDM)	•	•		
Overload Stop (OS)	•	•	•	•
Laser Marking (LM)	•	•	•	•
Stainless Steel Tagging (ST)	•	•	•	•
Orifice - Brass Press Fit - 0.3 mm (BP3)	•		•	
Orifice - Brass Threaded - 0.8 mm (BT8)	•		•	
Orifice - 316SS Threaded - 0.8 mm (ST8)		•		•

STANDARD ORIFICE FOR 600/700 SERIES GAUGE IS 0.8 MM THREADED, UNLESS OTHERWISE SPECIFIED.
Consult factory for additional non-stock and special accessory availability.

800 SERIES PRECISION TEST GAUGE ACCESSORIES

MODEL NO.	60-800
CONNECTION	
304 SS Front Flange (SSFF)	•
304 SS Rear Flange (SSRF)	•
Carrying Case (GC)	•
Laser Marking (LM)	•
Stainless Steel Tagging (ST)	•
Orifice - Brass Press Fit - 0.3 mm (below 10,000 psi) (BP3)	•
Orifice - Brass Threaded - 0.8 mm (below 10,000 psi) (BT8)	•
Orifice - 316SS Threaded - 0.8 mm (10,000 - 20,000 psi) (ST8)	•

STANDARD ORIFICE FOR 800 SERIES GAUGE IS 0.8 MM THREADED, UNLESS OTHERWISE SPECIFIED.
Consult factory for additional non-stock and special accessory availability.