

# PALMER

**45TS has a safety construction featuring a stainless steel "solid front" safety cell protecting the front and sides, with a blow-out back.**

## Solid Front Blow-Out Back Gauge Model 45TS - 4" Gauge

Designed to provide the maximum safety for personnel monitoring the gauges in the event of gauge failure, and to resist the most severe operating conditions created by the ambient environment and process medium. These gauges are constructed with a solid barrier between the sensing element and the dial front, welded to the socket to give them exceptional strength.

In addition to protecting the user from fluid and particles in the event of failure, the backs of these cases are designed to blow out to release pressure inside the case. Filled gauges reduce pointer fluctuation, reduce wear of rotating parts of the movement when vibrations and pulsations occur, and prevent condensation and corrosion which could damage the internal parts.

### FEATURES

- Blow-Out Back designed to release pressure inside the case.
- Accurate • Tough • Adjustable

### Model 45TS Specifications

<b>Case and Blow-Out Back:</b>	Phenolic, Fiberglass Reinforced in 4-1/2" (125mm) diameter
<b>Fill:</b>	Dry or Glycerin Filled. Silicone Fill Optional.
<b>Ring:</b>	Polycarbonate
<b>Window:</b>	Laminated Safety Glass Standard, Tempered Glass Optional
<b>Socket:</b>	AISI 316 Stainless Steel, TIG welded to the elastic element using 316 Stainless Steel
<b>Connection:</b>	1/2" NPT threads, SS Restrictor Optional. Ranges 30,000# and above require Autoclave fitting
<b>Bourdon Tube:</b>	AISI 316 Stainless Steel. C-tube configuration for ranges below 1000 PSI. Spiral tube configuration for higher ranges
<b>Movement:</b>	Stainless Steel
<b>Pointer:</b>	Black Aluminum, micrometer adjustable
<b>Dial:</b>	White Aluminum with black markings in accordance with ASME B40.1 -2005
<b>Accuracy:</b>	±1.0%: Wet, ± 0.5%: Dry ±1.6% for 50,000# and 60,000# Ranges
<b>Range Availability:</b>	PSI, Metric, and Dual Scales.
<b>Ambient Temperature:</b>	Dry: -40° to 185°F (-40° to 85°C) Glycerin Filled: 60° to 150°F (15° to 65°C) Silicone Filled: -50° to 150°F (-45° to 65°C)
<b>Process Temperature Limits:</b>	-4° to 176°F (-20° to 80°C) 100°C MAX.
<b>Overpressure Limits:</b>	30% for ranges up to 870 PSI (60 Bar, as a percent of full scale value) 25% for ranges from 870 to 1400 PSI (100 Bar, as a percent of full scale value) 15% for ranges above 1400 PSI (100 Bar, as a percent of full scale value). (Over pressures up to 130% of these values will not damage the movement).



45TS



45TS Back of Gauge

**When Safety is Paramount!**

**Note:** Instruments for Oxygen - Glycerin or Silicone should not be used with highly oxidizing agents such as oxygen, chlorine, nitric acid or hydrogen peroxide because of danger of spontaneous chemical reaction, inflammability or explosion. The use of fluorinated fluid is recommended in these cases.

IP65  
COMPLIANT

ONE YEAR  
WARRANTY

TWO YEAR  
WARRANTY

Dry

Wet

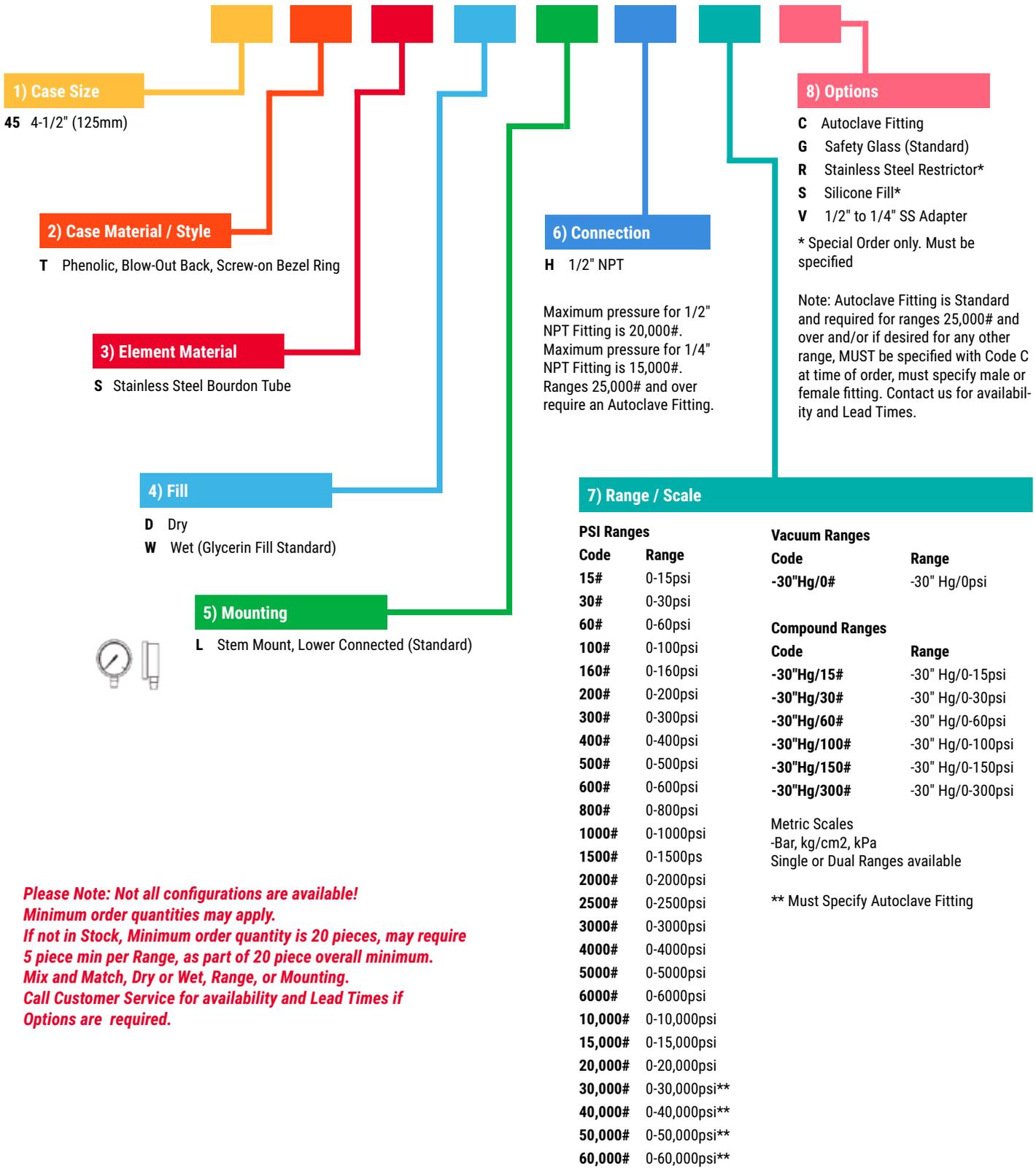
Specifications subject to change without notice. Minimum order quantities may apply.

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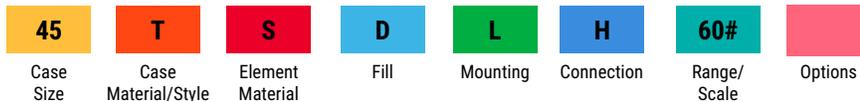
**Palmer / Wahl**  
BEYOND THE SCALE

# Pressure Gauge Model 45TS Ordering Guide



**Please Note: Not all configurations are available!**  
**Minimum order quantities may apply.**  
**If not in Stock, Minimum order quantity is 20 pieces, may require 5 piece min per Range, as part of 20 piece overall minimum.**  
**Mix and Match, Dry or Wet, Range, or Mounting.**  
**Call Customer Service for availability and Lead Times if Options are required.**

**Example of a typical pressure gauge part number configuration:**



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