

# PALMER

*Palmer's Fearless All Stainless Steel Gauges feature a vibration and pulsation resistant dampened movement for outstanding performance in demanding applications.*



## Fearless All Stainless Steel Gauges Model 40SF - 4" Gauge

Palmer Fearless All Stainless Steel Gauges are the highest quality instruments available for gas or liquid media. Their rugged construction and watertight bayonet case/ring design are enhanced by Palmer's Fearless vibration and pulsation resistant Dampened Movement. The result is a Pressure Gauge suitable for demanding applications in all industries.

### FEATURES

- Vibration and Pulsation Resistant
- Readings similar to a Liquid Filled Gauge.
- Easy Shipping, Handling, and Storage.
- Long Instrument Life.
- Low Maintenance.
- In Situ Calibration using micro adjustable gear drive pointer.
- AISI Stainless Steel Special Dampened Movement
- Replaceable Window.
- 1/4 turn Bayonet lock removable Bezel Ring.
- Can be liquid filled for extreme applications

### Model 40SF Specifications

<b>Case:</b>	AISI 304 Stainless Steel Front 4" (100mm) diameter watertight case
<b>Fill:</b>	Dry or Glycerin Filled. (Dry Gauges can be filled) Silicone Fill Optional.
<b>Ring:</b>	AISI 304 Stainless Steel, Bayonet Bezel Ring
<b>Window:</b>	Safety Glass Standard, Acrylic Optional
<b>Socket:</b>	AISI 316 Stainless Steel Socket and Tube, Argon welded
<b>Connection:</b>	1/2" NPT, 1/4" Optional
<b>Bourdon Tube:</b>	AISI 316 Stainless Steel
<b>Movement:</b>	AISI 304 Stainless Steel special Dampened Movement with wear-resistant, self-lubricating gears
<b>Pointer:</b>	Balanced Black Aluminum. Micrometer adjustable
<b>Dial:</b>	White Aluminum with black markings in accordance with ASME B40.1 -2005
<b>Accuracy:</b>	±1% on ranges below 10,000 ±1.6% on ranges 15,000 and above
<b>Range Availability:</b>	PSI, Metric, and Dual Scales.
<b>Ambient Temperature:</b>	-40° to 185°F (-40° to 85°C)
<b>Process Temperature Limits:</b>	-40° to 176°F (-40° to 80°C). 100°C MAX
<b>Overpressure Limits:</b>	20% of full scale

Note: Autoclave Fitting - is Standard and required on ranges over 25,000# MUST be specified with Code C at time of order, must specify Male or Female fitting.  
Blow-Out Disc - if desired, is available for Dry or Glycerin Filled Gauges only. MUST be specified with Code Y at time of order. Contact factory for availability and Lead Times.

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



40SF Back of Gauge

Fill Plug

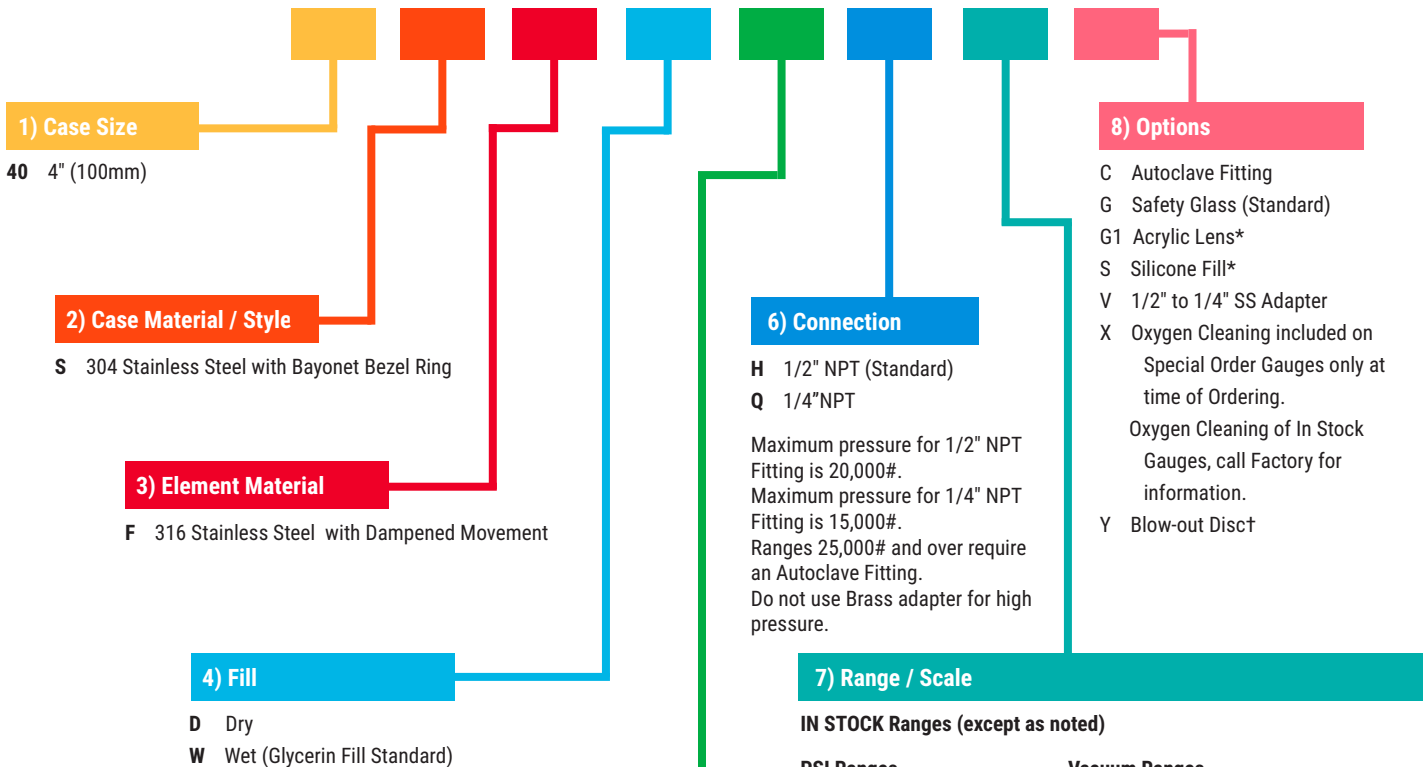
If a Solid Front Gauge is desired, please see Palmer Gauge 45TS.



Dry Wet



# Fearless All Stainless Steel Gauges Model 40SF Ordering Guide








**1) Case Size**  
40 4" (100mm)

**2) Case Material / Style**  
S 304 Stainless Steel with Bayonet Bezel Ring

**3) Element Material**  
F 316 Stainless Steel with Dampened Movement

**4) Fill**  
D Dry  
W Wet (Glycerin Fill Standard)

**5) Mounting**

-  L Stem Mount, Lower Connected (Standard)
-  B Stem Mount, Back Connected\*
-  U Flush Mount, Back Connected, U Clamp\*
-  F Flush Mount, Back Connected, Front Flange\*
-  I Surface Mount, Lower Connected, Rear Flange\*

\* Special Order only

Note on all Back Connected Gauges:  
1.5", 2" and 2.5" cases are Center Back Connected  
4" and 6" Cases are Lower Back Connected

**6) Connection**

H 1/2" NPT (Standard)  
Q 1/4" NPT

Maximum pressure for 1/2" NPT Fitting is 20,000#.  
Maximum pressure for 1/4" NPT Fitting is 15,000#.  
Ranges 25,000# and over require an Autoclave Fitting.  
Do not use Brass adapter for high pressure.

**7) Range / Scale**  
**IN STOCK Ranges (except as noted)**

PSI Ranges		Vacuum Ranges	
Code	Range	Code	Range
15#	0-15psi*	-30"Hg/0#	-30" Hg/0psi
30#	0-30psi*		
60#	0-60psi*		
100#	0-100psi*		
160#	0-160psi*		
200#	0-200psi		
300#	0-300psi*		
400#	0-400psi		
800#	0-800psi		
1000#	0-1000psi		
1500#	0-1500psi		
2000#	0-2000psi		
3000#	0-3000psi		
4000#	0-4000psi		
5000#	0-5000psi*		
6000#	0-6000psi*		
7500#	0-7500psi		
10,000#	0-10,000psi		
15,000#	0-15,000psi		
20,000#	0-20,000psi		
25,000#	0-25,000psi**		
30,000#	0-30,000psi**		

**Compound Ranges**

Code	Range
-30"Hg/15#	-30" Hg/0-15psi
-30"Hg/30#	-30" Hg/0-30psi
-30"Hg/60#	-30" Hg/0-60psi
-30"Hg/100#	-30" Hg/0-100psi
-30"Hg/160#	-30" Hg/0-160psi

Metric Scales  
-Bar, kg/cm<sup>2</sup>, kPa  
Single or Dual Ranges available\*

† Note: Autoclave Fitting is Standard and required for ranges 25,000# and over and/or if desired for any other range, MUST be specified with Code Y at time of order, must specify male or female fitting.

Blow-Out Disc, if desired, is available for Dry or Glycerin Filled Gauges only. MUST be specified with Code Y at time of order. Contact us for availability and Lead Times.

\* Stock Item  
\*\* Must Specify Autoclave Fitting

**Please Note: Not all configurations are available! For Special Order Options. Minimum order quantities may apply, and a minimum of 7 weeks lead time.**

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

