

# SANITARY VOLTAGE OUTPUT PRESSURE TRANSDUCER

## PROVEN THIN-FILM TECHNOLOGY

**Vacuum to 1000 psi (69 bar)  
1 to 5 Vdc Output**

### PX790 Series



- ✓ All Stainless Steel Construction
- ✓ NEMA 4X (IP65) Enclosure
- ✓ Dairy, Food Processing, Pharmaceutical, Biotech Applications
- ✓ High Reliability

The PX790 Series transducers use proven thin-film technology and precision machining and electro-polishing to meet 3A standards.

### SPECIFICATIONS

**Excitation:** 10 to 36 Vdc unregulated reverse voltage protected with supply current <3 mA

**Output:** 1 to 5 Vdc unregulated

**Zero Balance:** ±1% full scale

**Linearity:** ±0.4% BFSL

**Hysteresis:** +0.2%

**Repeatability:** ±0.07%

**Stability:** ±1% full scale/year

**Durability:** 100M cycles

**Operating Temperature:**

-29 to 82°C (-20 to 180°F)

**Compensated Temperature:**

-1 to 54°C (30 to 130°F)

**Thermal Effects:**

**Span:** ±0.04% full scale/°F

**Zero:** ±0.04% full scale/°F

**Proof Pressure:** 200% range

**Burst Pressure:** 800% range

**Gage Type:** Stainless steel diaphragm, diffused silicon sensor

**Vibration:** <±0.1% full scale effect for 20 g, 0 to 2000 Hz in any axis

**Shock:** Less than ±0.05% full scale effect for 100 g, 20 ms shock in any axis

**Position Effect:** <0.1% full scale

**Response Time:** 5 ms

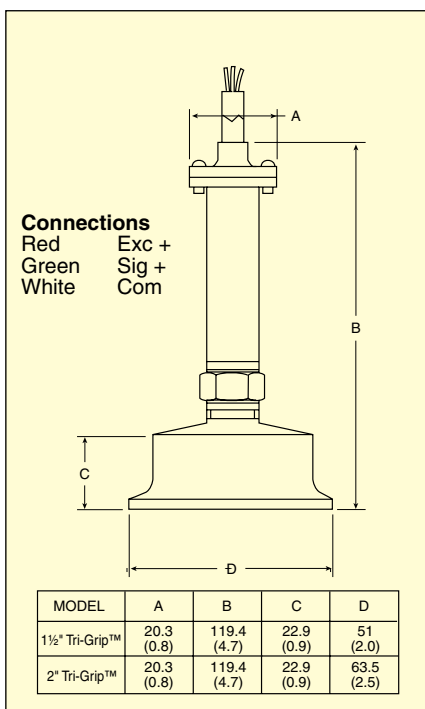
#### CAUTION AND WARNING!

Sensitive Diaphragm  
Do Not Touch!  
Remove Protective Cap  
Just Before Installation.

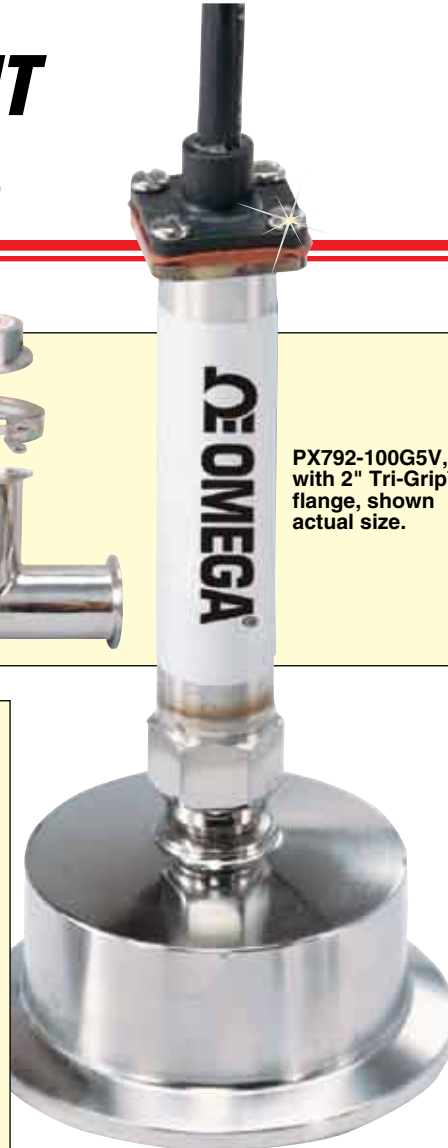
Exploded view showing  
PX792 transducer, Tri-Grip™  
clamp and gasket T-fitting.



PX792-100G5V,  
with 2" Tri-Grip™  
flange, shown  
actual size.



**Connections**  
Red Exc +  
Green Sig +  
White Com



**Wetted Parts:** 316L stainless steel electro-polished

**Case:** 300 Series stainless steel

**Fill Fluid:** USP grade 99.5% glycerin

**Pressure Port:** Tri-Grip™, (Tri-Clamp® compatible) 1½", 2"

**Electrical Connection:** No. 24 AWG, 36" PVC, shielded, vented

**Weight:** 383 g (13.5 oz)

### To Order

RANGE		MODEL NO. 1½" FITTING	MODEL NO. 2" FITTING	COMPATIBLE METERS
psig	bar			
Vac to 30	Vac to 2.1	PX791-V30G5V	PX792-V30G5V	DP41-E, DP25B-E
Vac to 60	Vac to 4.1	PX791-V60G5V	PX792-V60G5V	DP41-E, DP25B-E
Vac to 100	Vac to 6.9	PX791-V100G5V	PX792-V100G5V	DP41-E, DP25B-E
0 to 30	0 to 2.1	PX791-30G5V	PX792-30G5V	DP41-E, DP25B-E
0 to 60	0 to 4.1	PX791-60G5V	PX792-60G5V	DP41-E, DP25B-E
0 to 100	0 to 6.9	PX791-100G5V	PX792-100G5V	DP41-E, DP25B-E
0 to 200	0 to 13.8	PX791-200G5V	PX792-200G5V	DP41-E, DP25B-E
0 to 300	0 to 20.7	PX791-300G5V	PX792-300G5V	DP41-E, DP25B-E
0 to 500	0 to 34.5	PX791-500G5V	PX792-500G5V	DP41-E, DP25B-E
0 to 750	0 to 51.7	PX791-750G5V	PX792-750G5V	DP41-E, DP25B-E
0 to 1000	0 to 68.9	PX791-1KG5V	PX792-1KG5V	DP41-E, DP25B-E

Comes complete with operator's manual.

**Ordering Example:** PX792-V100G5V, 2" Tri-Grip™ fitting, range from vacuum to 100 psig and 1 to 5 Vdc output at full scale level.



VOLTAGE OUTPUT  
PRESSURE TRANSDUCERS  
**B**