TUFF GUARD™

Series TG

Gauge Guards

Materials: PVC, CPVC, Natural Polypropylene, PVDF

Marquest Scientific's complete line of TUFF GUARD gauge and instrument isolators are engineered to provide total isolation of all instruments from corrosive and ultra pure fluids while offering a design with the most rugged features in the industry..

Features & Benefits

- Provides a compatible, protective barrier between process fluids and instruments
- Adds system reliability by eliminating instrument failures
- SS reinforcement of the instrument connection to prevent fracturing associated with metal to plastic threads. Integrally molded into port
- Integral wrench provisions for field service
- Diaphragms in Modified PTFE, Viton®, EPDM, and Composite PTFE/FKM for each application
- Displacement capacity for up to 4" diameter gauges and and large fill volume sensors
- Self-venting, 1/4" & 1/2" female NPT instrument connections with Viton® O-ring instrument seal



SERIES TG-25S-PVC 2.5" ECONOMY GAUGE 1/2" Fem NPT Inlet PVC Body



SERIES TG-25SB-CPV 2.5" STAINLESS/BRASS GAUGE 1/2" Fem NPT Inlet CPVC Body



SERIES TG-25SS-PVD 2.5" ALL STAINLESS GAUGE 1/2" Fem NPT Inlet PVDF Body

(1) Please see backside of data sheet for ordering info, including configuration & material options.

Specifications

Instrument Connection: Venting 1/4" & 1/2" Female NPT Process Connections: 1/4" & 1/2" Fem NPT, Soc "Slip" Materials of Construction:

Housing: PVC, CPVC, Polypropylene, PVDF

Diaphragm: Modified PTFE, Viton®, EPDM, & Composite

PTFE/FKM

Working Pressure: 0 - 250 psi at 70 Deg F.

Codes & Standards: ARRA Section 1605 "Buy American"

Compliant. ASME A112.18.1M

Markets / Applications

- Wastewater Treatment
- Semiconductor Manufacturing
- Chemical Plants
- Chemical Feed Systems
- Food & Beverage
- Wet Processing
- Chemical Odor Control
- PCB Manufacturing
- Pharmaceutical Processing



Where Quality Meets Service & Value™



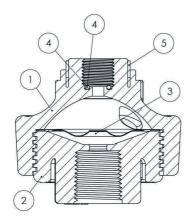


Gauge Guards

TUFF GUARD™Series TG

Dimensional Data / Parts List

Fig. 1-1



Pressure / Temperature Data

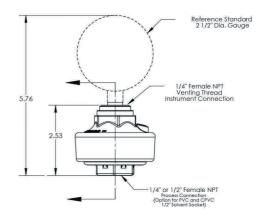
WORKING PRESSURES PSI

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Material							70°C 158°F					Net Weights Ounces*
PVC	200	250	250	220	140	135						6.2
CPVC	230	250	250	230	200	200	150	120	60			6.4
PP	200	240	240	210	145	125	75	60				5.1
PVDF	240	250	250	250	250	230	220	200	160	140	80	7.2

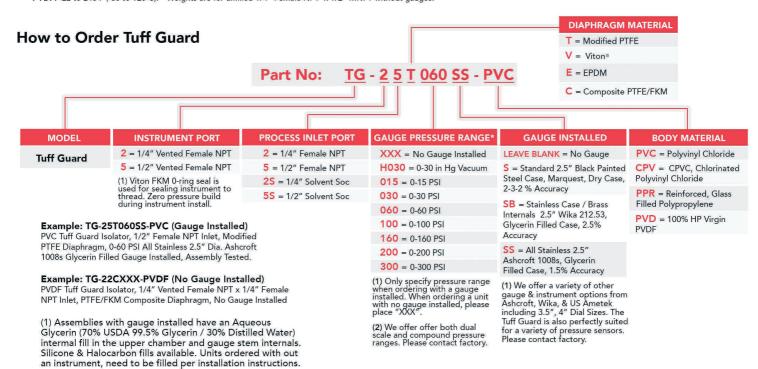
Temperature Ranges: PVC: $14 \text{ to } 140^{\circ}\text{F}$ ($10 \text{ to } 60^{\circ}\text{C}$), CPVC: $50 \text{ to } 194^{\circ}\text{F}$ ($10 \text{ to } 90^{\circ}\text{C}$), PP: $46 \text{ to } 176^{\circ}\text{F}$ ($8 \text{ to } 80^{\circ}\text{C}$), PVDF: $-22 \text{ to } 248^{\circ}\text{F}$ ($-30 \text{ to } 120^{\circ}\text{C}$). * Weights are for unfilled 1/4'' Female NPT x 1/2'' MNPT without gauges.

ITEM NO.	DESCRIPTION	QTY
1	Upper Chamber	1
2	Lower Chamber	1
3	Diaphragm	1
4	O-Ring, Instrument Seal, FKM	1
5	Ring, Reinforcing 316 SS	1



*Dimensions in inches

(1) Model TG-25 shown above with 2.5" diameter case dimension.



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