Mini TUFF GUARD™

Series MTG

Gauge Guards

Materials: PVC, CPVC, Natural Polypropylene, PVDF

Marquest Scientific's complete line of Mini gauge and instrument isolators are engineered to provide total isolation of all instruments from corrosive and ultra pure fluids in an ultra compact size.

Features & Benefits

- Provides a compatible, protective barrier between process fluids and instruments
- Adds system reliability by eliminating instrument failures.
- Ultra compact size for limited space applications
- Extremely low cost for O.E.M. integration
- Replaceable composite PTFE/FKM diaphragm
- Integral wrench provisions
- Diaphragm safety features
- Displacement capacity for up to 2 1/2" diameter gauges

Self-venting, 1/4" female NPT instrument connection



2" FCONOMY GAUGE

1/4" Fem NPT Inlet

PVC Body





SERIES MTG-22FS-PVC SERIES MTG-22SB-PPR SERIES MTG-25SS-PVD

2.5" STAINLESS/BRASS GAUGE 1/4" Male NPT Inlet Nat Polypro Body 2.5" ALL STAINLESS GAUGE 1/2" Male NPT Inlet PVDF Body

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

Specifications

Instrument Connection: Venting 1/4" Female NPT

Process Connections: 1/4" & 1/2" MNPT, 1/4" Female NPT

Materials of Construction:

Upper Housing: PVC, CPVC, Natural Polypro, PVDFLower Housing: PVC, CPVC, Natural Polypro, PVDFComposite Diaphragm: PTFE, System / Process Side

FKM, Instrument Side

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



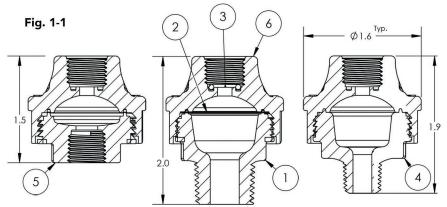




Gauge Guards

Mini TUFF GUARD™ **Series MTG**

Dimensional Data / Parts List



*Dimensions in inches

Pressure / Temperature Data

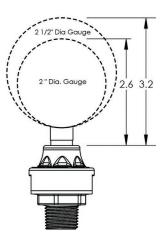
WORKING PRESSURES PSI

W	F	G	н	T

Material	10°C 50°F	20°C 68°F	30°C 86°F	40°C 104°F	50℃ 122℉	60°C 140°F	70°C 158°F	80°C 176°F	90°C 194°F	100°C 212°F	120°C 248°F	Net Weights Pounds*
PVC	200	250	250	220	140	135						.13
CPVC	230	250	250	230	200	200	150	120	60			.14
PP	200	240	240	210	145	125	75	60				.12
PVDF	240	250	250	250	250	230	220	200	160	140	80	.16

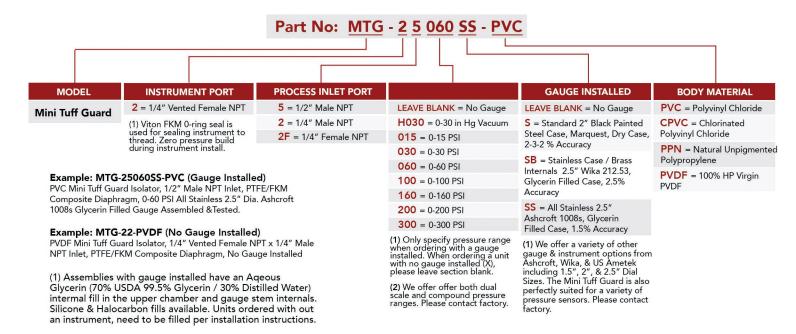
Temperature Ranges: PVC: 14 to 140°F (10 to 60°C), CPVC: 50 to 194°F (10 to 90°C), PP: 46 to 176°F (8 to 80°C), PVDF: -22 to 248°F (-30 to 120°C). * Weights are for unfilled 1/4" Female NPT x 1/2" MNPT without gauges.

ITEM NO.	DESCRIPTION	QTY
1	Mini Lower 1/2" Male NPT	1
2	Mini Composite Diaphragm PTFE / FKM	1
3	O-Ring, Instrument Seal, FKM	1
4	Mini Lower 1/4" Male NPT	1
5	Mini Lower 1/4" Female NPT	1
6	Mini Upper 1/4" Female NPT Venting Thread	3



(1) Model MTG-25 shown above with 2" & 2.5" diameter case dimensions. Please combine dimensions from fig.1-1 to total full assembly height dimensions.

How to Order Mini Tuff Guard



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