

# PLAST-O-MATIC

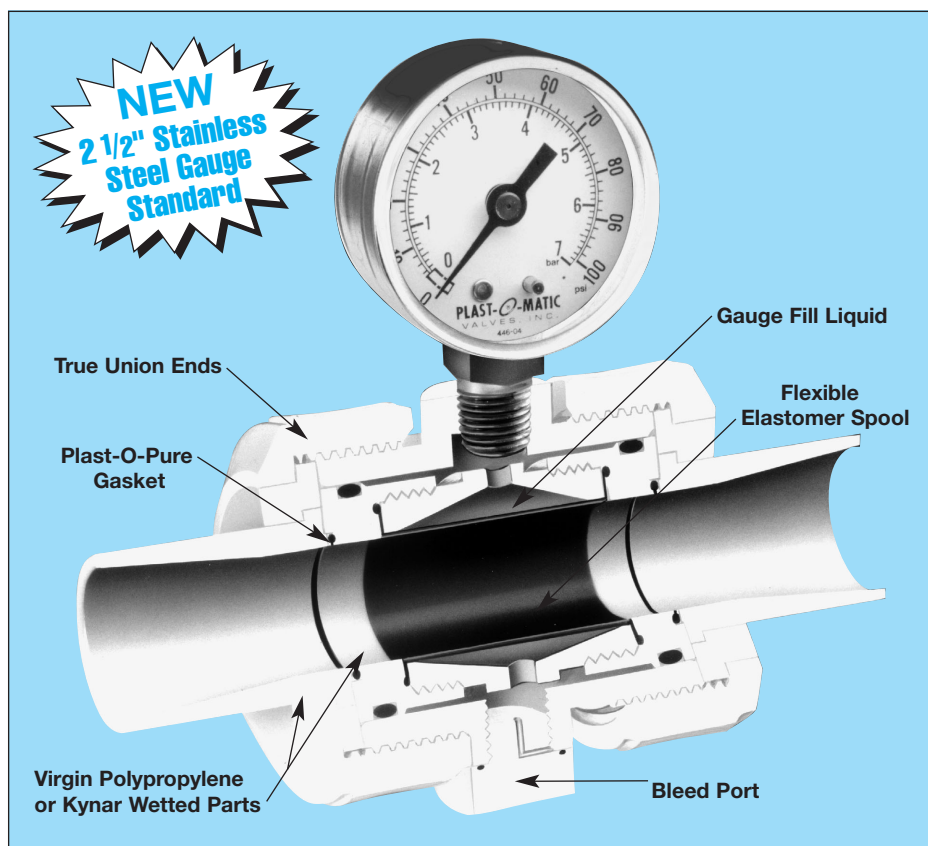
## PRODUCT DATA

CATALOG GGMU-3

### Technological Breakthrough for Ultra-Pure Liquid and Deionized Water Systems

## Series "GGMU" Ultra-Pure Gauge Guard Eliminates "Dead Leg"!

Unique In-line gauge guard developed specifically to meet the demanding high purity standards required in ultra-pure D.I. water systems and other ultra-pure liquids.



#### Features:

- Non-contaminating, non-pigmented virgin Polypropylene or Kynar® (PVDF) material.
- PVC also available, if desired.
- In-line design eliminates "dead-leg" that can harbor bacterial growth and other contamination.
- True union ends enable easy installation and removal.
- Flexible elastomer spool assures accurate readings for pressure or vacuum.
- Bleed port assures trouble-free filling.
- Unique Plast-O-Pure® gasket assures crevice-free sealing of the end connectors.
- Food grade elastomers available on request.
- Various piping connectors are available to adapt to most connection systems existing in the marketplace.
- High quality 2 1/2" stainless steel gauge

#### Application:

The Series GGMU gauge guards are designed for ultra-pure liquid systems and specifically to eliminate piping "dead-leg" that can harbor bacterial growth and contamination. This is in addition to their ability of keeping system liquid from coming in contact with a

#### Materials of Construction:

Gauge guard body and external parts are unpigmented virgin polypropylene. Internal wetted parts are

the material of the piping system. Elastomers are

while still maintaining the accuracy of the gauge or instrument.

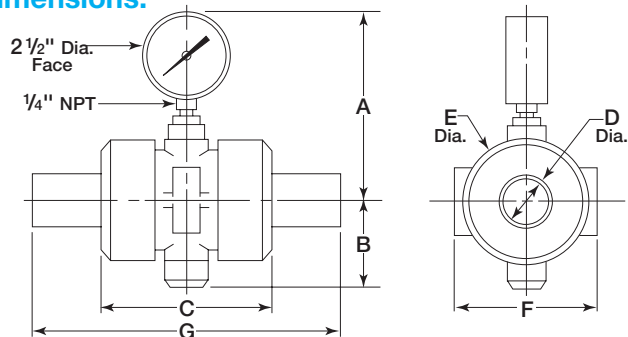
# PLAST-MATIC® VALVES, INC.

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## Design and Operation:

Series GGMU utilizes a flexible elastomer spool which separates process liquid from gauge or instrument fill liquid. This spool accurately transmits pressure or vacuum from the process liquid to instrument fill liquid which in turn registers on the gauge. A bleed plug enables gauge guard to be totally filled with liquid, thereby eliminating air bubbles which would decrease accuracy of pressure reading. All sealing points of spool and end connectors are sanitary style to eliminate the possibility of any small wetted cavities within the assembly.

## Dimensions:



**Note:** 1/4" NPT instrument connection is standard on all Ultra-Pure gauge guards. For other size requirements consult factory.

GAUGE GUARD DIMENSIONS						
Size	A in. mm	B in. mm	C in. mm	D in. mm	E in. mm	F in. mm
1/2"	4.52 115	1.87 47	3.83 97	0.85 22	2.77 70	3.20 81
3/4"						
1"						
1 1/2"	5.38 136	2.64 67	4.64 118	1.48 38	4.02 102	4.05 103
2"						

## End Connectors:

The overall "G" dimension will vary according to which end connectors are selected. Three standard end connectors are available; one for metric piping, one for Schedule 80 piping, and one for sanitary piping to meet requirements of the major piping systems in the marketplace. End connectors can also be made to custom lengths if required. Each GGMU must be



GGMU above, shown with Schedule 80 male spigot ends for fusion (Code C3 below) and optional 2" gauge.

## Specifications and Model Numbers:

There is a two step process to determine the complete Model No. of an Ultra-Pure gauge guard with the proper end connectors. The model number always begins with GGMU. The following charts will list the choices.

### FIRST STEP – GAUGE GUARD ONLY

Basic Model #	Seal Material	Available Gauges Code Range	Thermoplastic Material of Wetted Parts
GGMU	V = FKM	001* No Gauge	PP = Polypropylene
		000 0-30" Hg (vacuum)	
		015 0-15 PSI	
		030 0-30 PSI	
	EP = EPDM	060 0-60 PSI	PF = Kynar (PVDF)
		100 0-100 PSI	
		160 0-160 PSI	
		200 0-200 PSI	
			PV = Polyvinyl Chloride (PVC)

\*Instructions for filling gauge guard included with GGMU. Fill liquid not included

**Example:** An Ultra-pure gauge guard with FKM seals, 0-100 gauge, and Kynar (PVDF) wetted parts is Model No. GGMUV100-PF, but this is not the complete number. Proceed to Second Step.

ordered with specific end connectors. Standard 2 1/2" Plast-O-Matic gauge included with all gauge guard/end connector models except Model 001. Refer to the chart marked "Second Step - End Connectors".

"G" DIMENSION				
Size	ASAHI & GF (Metric)		GSR (Sloane) Enfield (Sch 80)	
	Code 1, 2 & 5		Code 3	
	inches	mm	inches	mm
1/2"	6.75	171	7.05	179
3/4"	6.88	175	6.85	174
1"	6.69	170	6.69	170
1 1/2"	8.50	216	9.25	235
2"	8.50	216	9.25	235

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## SECOND STEP – END CONNECTORS

System Piping Code			System Source Code	
Code	Nominal Pipe Size		Code	Manufacturer
A	1/2"	(20 mm)	1	Asahi (Metric)
B	3/4"	(25 mm)	2	GF (Metric)
C	1"	(32 mm)	3	IPS
D	1 1/2"	(50 mm)	5	GF-BCF (Metric)
E	2"	(63 mm)		

**Example:** The nominal pipe size is 1" and the manufacturer of the piping system is Asahi. The Code numbers are C1. The model number from the first step must be followed by these code number.  
Final Model Number GGMUV100-PF-C1.

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