



THE GP1000 SERIES IS 3D INSTRUMENTS' RUGGED PRODUCT LINE OF GAUGE PROTECTORS AND DIAPHRAGM SEALS. ALL SEALS ARE PRECISION MICRO-MATCHED AT THE 3D FACTORY FOR ACCURACY AND RELIABILITY. BECAUSE 3D'S DIRECT DRIVE BOURDON ELEMENT HAS A FLUID PATH VOLUME OF ONLY 2 CC OR LESS, IT HAS ABOUT 20 TIMES LESS VOLUME THAN A STANDARD C-TYPE. THE RESULTANT DISPLACEMENT OF 0.08 CC OR LESS ALLOWS 3D TO OFFER GAUGE PROTECTION UNMATCHED IN THE INDUSTRY, WHILE MAINTAINING ACCURACY AND SENSITIVITY BETTER THAN ANY OTHER GAUGE AND SEAL COMBINATION AVAILABLE.

## GP140 METALLIC DIAPHRAGM SERIES



GP-140 seal attached to 4 1/2" Series-25 Process Gauge

### HOW TO ORDER

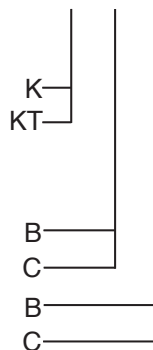
**LOW TEMPERATURE EFFECT:**

- 316 SS upper & lower
- 316 SS upper Hastelloy C
- lower & diaphragm

**FITTING:**

- 1/4" NPTF gauge connection
- 1/2" NPTF gauge connection
- 1/4" NPTF process connection
- 1/2" NPTF process connection

**GP140X - X / X**



Consult 3D document KT-107 for pressure gauge ordering information.

### FEATURES

- Welded body of 316 stainless steel or Hastelloy C (other materials available)
- Metallic diaphragm of 316L stainless steel, or Hastelloy C (other material available)
- Available in 1/4" or 1/2" process connections
- Available with process flush port
- A more compact design than industry standard seals (1 1/2 inch hex, max.)
- Low effects on accuracy:
  - 0.05% on a 30 psi gauge
  - 0.02% on a 60 psi gauge
  - Standard accuracy on ranges above 60 psi
- Low temperature effect: (Models KT & KET) 0.2% per 10° F on a 100 psi gauge; 0.003% per 10°F on a 1000 psi gauge

### APPLICATIONS

- Highly corrosive chemical environment
- Highly viscous processes
- Processes prone to plugging or fouling
- Very high pressure pulsations
- Service pressure 30 – 2000\*\*psi

\*\*5000 psi available by special order

# GP400 & GP500 ELASTOMERIC DIAPHRAGM SERIES

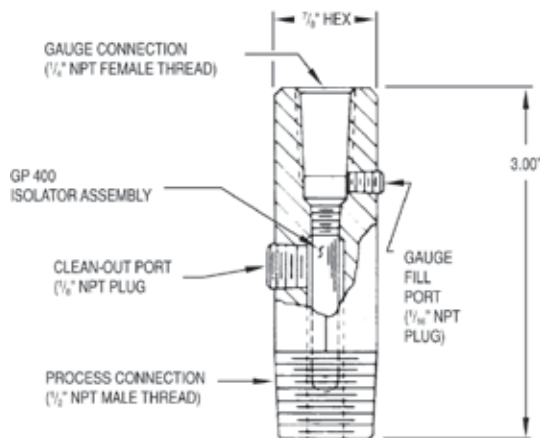
THE GP400 IS THE MOST UNIQUE PRESSURE GAUGE ISOLATOR AVAILABLE. THE GP400 IS THE LEAST EXPENSIVE WAY TO PROTECT THE 3D PRESSURE GAUGE FROM: CORROSION, FREEZING, VISCOUS LIQUIDS OR PLUGGING. THE GP400 IS SUITABLE FOR USE IN FLUID SERVICE TO 20,000 PSI. IT IS NOT RECOMMENDED FOR VACUUM OR GAS APPLICATIONS.

## GP400



Gauge Stem cut-away view of GP400 installed

## GP500



### Other Seals Available



Flanged



Sanitary

## FEATURES

- Low cost
- Compact installation within 3D gauge fitting.
- Usable range 30 – 20,000 psi
- SS fitting
- Elastomer boot available in: Viton & EPDM
- Usable to temperature of -40°F to + 190°F
- No degradation to accuracy between 100 – 20,000 psi. Suitable for test gauge protection
- Fill materials available include: Fluorolube, Mineral Oil, Glycerine, Ethylene Glycol, Silicone Oil (Std.)

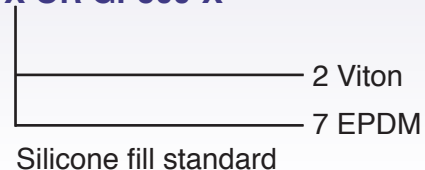
## GP500

- Installed on a separate fitting with flush port & fill port
- Usable range 100 – 15,000 psi
- Can be used with electronic transmitters

## APPLICATIONS

- Viscous fluids
- Freeze protection
- Heavy gauge dampening

## GP400-X OR GP500-X



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