

GAUGE ISOLATORS

MA Series

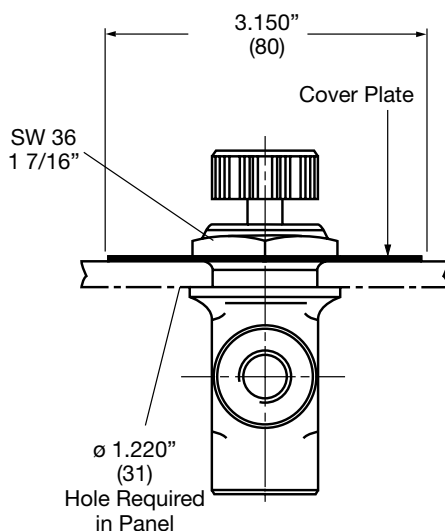
Single Gauge Isolator



Model Code

| | | | | | | | | | |
|-------------------------------|----|----------------------------------|---|---|---|---|---|---|-------------------|
| Gauge Isolator Single Station | MA | 1 | . | A | 1 | 0 | / | 5 | V |
| Design | | | | | | | | | |
| 1 | = | Push/Rotating Control Knob | | | | | | | |
| Connection | | | | | | | | | |
| A | = | Threaded | | | | | | | |
| Type Number | | | | | | | | | |
| Modification Number | | | | | | | | | |
| Port Configuration | | | | | | | | | |
| 0 | = | BSPP Thread (G1/4) | | | | | | | Part No. 02057942 |
| 12 | = | SAE-5 (1/2"-20 UNF) | | | | | | | Part No. 02057941 |
| Seals | | | | | | | | | |
| V | = | Fluoroelastomer Seals (standard) | | | | | | | |

Dimensions



Description

- Gauge life is extended by using the MA 1 when reading pressure. When not reading pressure, the gauge is vented to tank to protect the gauge against pressure from the system.
- There are two ways to operate the MA 1:
 - Push to read (*spring return*)
 - Push and rotate clockwise to lock in for continuous pressure reading

Specifications

Mounting

- Panel installation maximum 0.39"

Connections

- SAE-5, or G1/4 (Ports M, P, T)

Weight

- 0.88 lbs./0.4 kg

Mounting Position

- Horizontal or Vertical

Operating Fluid

- Mineral Oils

Hydraulic Data

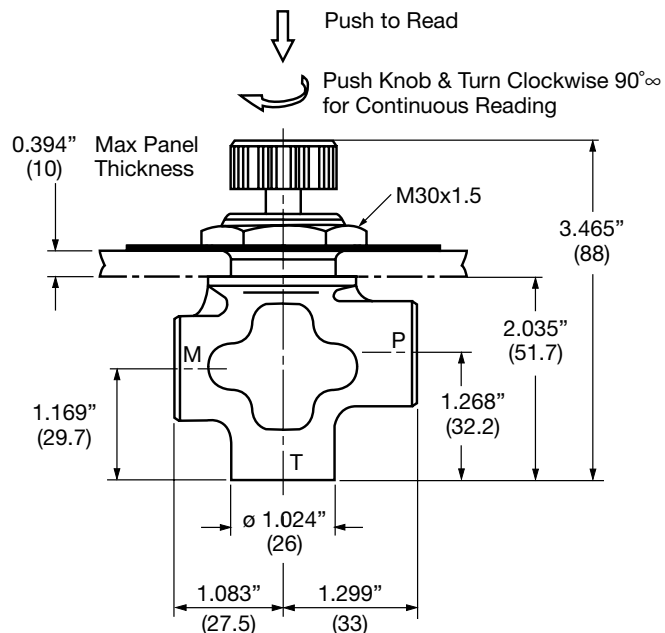
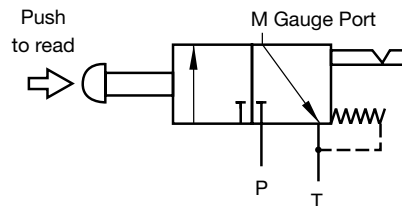
Operating Pressure

- P max. 5075 psi/350 bar (T-Port max. 145 psi/10 bar)

Temperature Range

- 4° to 176°F (-20° to 80°C)

Hydraulic Symbol



Notes:

- Dimensions are in inches (mm).
- Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.

MSL Series

Zero Leakage Multi-Station Gauge Isolators with Integral Gauge



Model Code

MSL 2 G 2 . 0 / 315 V

Multi-Station Gauge Isolator
MSL = Zero Leakage Model

Model
2 = with Built-in Pressure Gauge

Type and Size of Connection (All Ports)
G = 1/4" NPT
H = SAE-4 (7/16"-20 UNF)
A = BSPP (G1/4)

Type Number

Modification Number

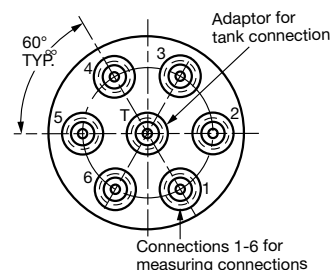
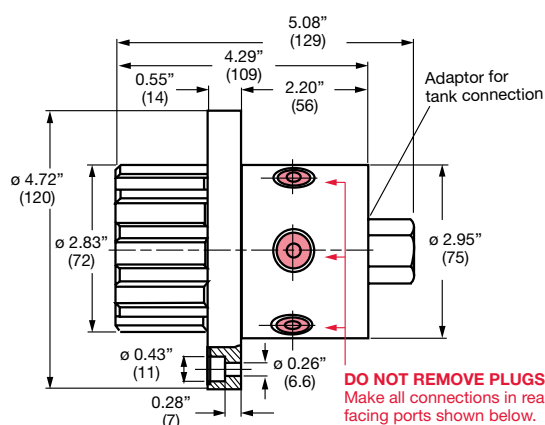
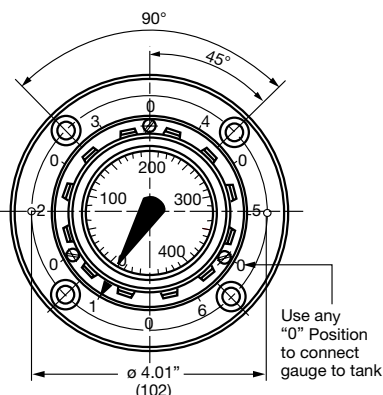
Gauge Indication Range

| Size | Operating Pressure Zone (Black Scale) | Over Pressure Zone (Red Scale) |
|------|--|-----------------------------------|
| 40 | 0 - 570 psi (0 - 40 bar) | 570 - 900 psi (40 - 63 bar) |
| 63 | 0 - 900 psi (0 - 63 bar) | 900 - 1400 psi (63 - 100 bar) |
| 100 | 0 - 1400 psi (0 - 100 bar) | 1500 - 2300 psi (100 - 160 bar) |
| 180 | 0 - 2600 psi (0 - 180 bar) | 2600 - 3600 psi (180 - 250 bar) |
| 315 | 0 - 4500 psi (0 - 315 bar) | 4500 - 5700 psi (315 - 400 bar) |

Supplementary Details

(omit) = Buna Seals
V = Viton Seals

Dimensions



Specifications

Mounting Method

- Flange mounting via four 1/4" bolts. It is recommended that the measuring points with pressures of over 1450 psi (100 bar) be arranged symmetrically. Ports not in use should be plugged.

Weight

- 3.8 lbs. / 1.7 kg.

Mounting Position

- Optional

Fluids

- General purpose hydraulic oil. For other fluids, contact **HYDAC** for information.

Type of Connections

- 6 measuring points
- 1 tank connection

Hydraulic Data

Operating Pressure Range

- Max. operating pressure at measuring points 1- 6
4500 psi (315 bar)
- Max. Tank connection pressure 145 psi (10 bar)

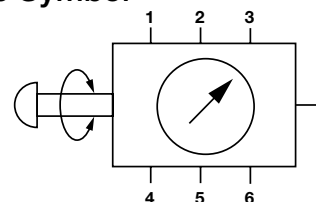
Fluid Temperature Range

- 5° to 160°F (-20° to 70°C)

Gauge Accuracy

- Built-in gauge accuracy is $\pm 1.6\%$ of the max. scale value at 68°F (20°C). The error per additional 50°F (10°C) temperature increase is +0.3% and 50°F (10°C) temperature reduction is -0.3%. Values are based on red scale indication.

Hydraulic Symbol



Notes:

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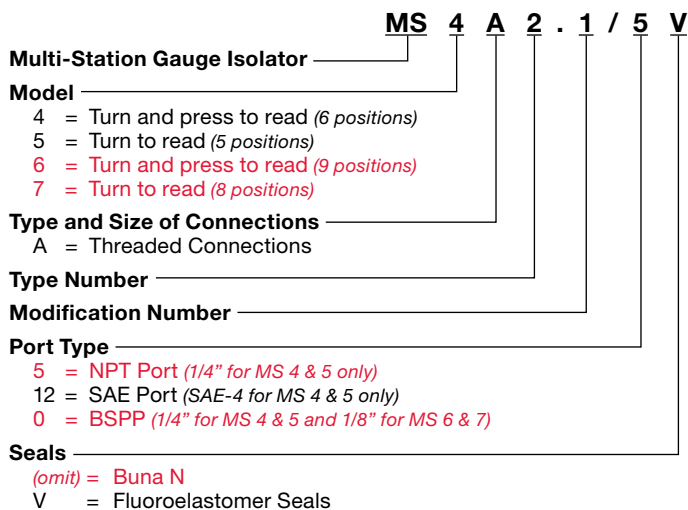
GAUGE ISOLATORS

MS Series

Multi-Station Gauge Isolators



Model Code



Specifications

Mounting Method

- Flange mounting via four 1/4" bolts. It is recommended that the measuring points with pressures of over 1450 PSI / 100 Bar be arranged symmetrically. Ports not in use should be plugged.

Weights

- MS 4 & MS 5** 3.1 lbs. / 1.4 kg.
- MS 6 & MS 7** 4.2 lbs. / 1.9 kg.

Mounting Position

- Optional

Fluids

- General purpose hydraulic oil. For other fluids, contact the HYDAC office for information.

Types of Connections

- MS 4 / MS 6**
 - 1 gauge connection (M)
 - 1 tank connection (T)
- MS 5 / MS 7**
 - 1 gauge connection (M)
 - 1 tank connection (T)
 - 1 leakage connection (L)

Hydraulic Data

Operating Pressure Range

- MS 4 / MS 5 / MS 6 / MS 7**
 - Max. operating pressure range at measuring points 4500 psi (315 bar)
 - Max. tank and leakage connection pressure 145 psi (10 bar)

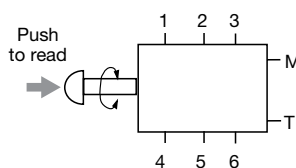
Fluid Temperature Range

- 5° to 160°F (-20° to 70°C)

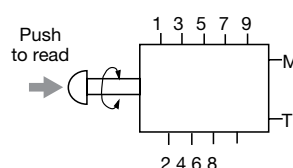
Hydraulic Symbol

M = Gauge (measuring) connection
T = Tank connection
L = Leakage connection

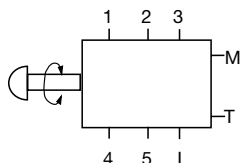
Type MS 4



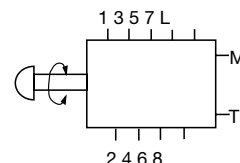
Type MS 6



Type MS 5

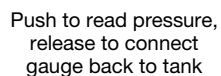


Type MS 7

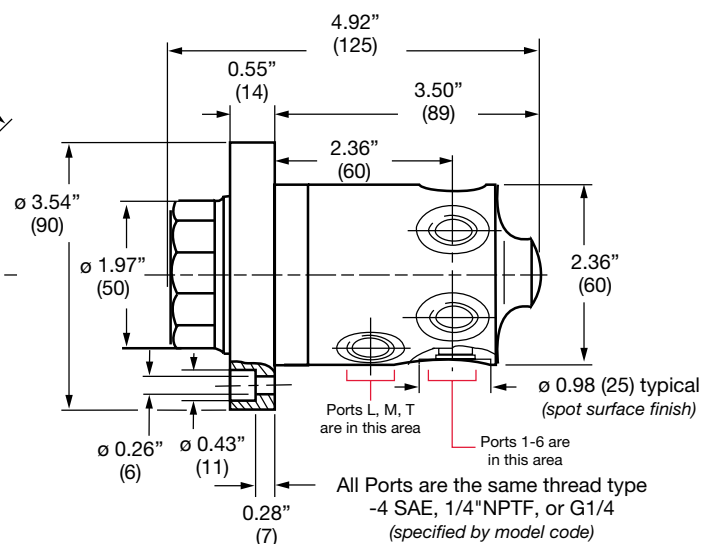


See dimensions next page.

Type MS 4

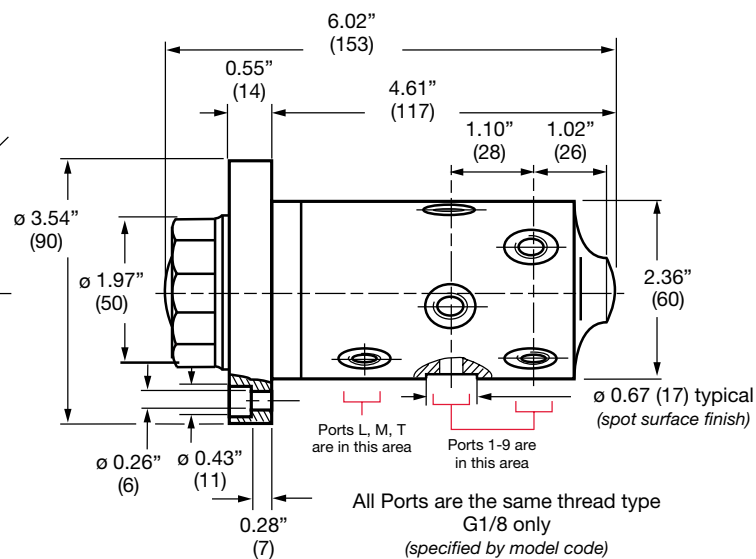


Turn to "0" position
to connect
gauge back to tank



Push to read pressure,
release to connect
gauge back to tank

Turn to "0" position
to connect
gauge back to tank



2. Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.