

40MM & 50MM SEVERE SERVICE GAUGE

- Copper Alloy Internals
- Glycerine Filled
- Center Back Mount Only

Marsh Instruments Liquid-Filled Gauges are designed to perform in rugged and harsh environmental conditions - especially where pulsation and vibration is a problem. Liquid Filled Gauges offer a significant cushioning and dampening effect, reducing pointer flutter and internal gauge damage. Liquid Filled Gauges feature a ventable top fill plug and can be mounted on a horizontal or vertical plane. The hermetically sealed construction reduces the chance of leaks and makes field filling an easy option.

Typical applications include refineries, chemical, oil & gas, marine and OEM processes.

SPECIFICATIONS

ACCURACY

±2.5% of range across full scale

CASE SIZES

40 or 50 mm diameter

CASE MATERIAL

304 Stainless Steel

CASE STYLE

CB - Center Back mount

TUBE & SOCKET

Copper Alloy tube with nickel plated brass socket

MOVEMENT

Brass

CONNECTION

½ NPT & ¼ NPT

RANGES

15 to 160 psi

DIAL STANDARD

Triple scale psi/BAR/kPa

DIAL COLOR

Black markings on white

POINTER

Aluminum, black painted

WINDOW

Acrylic

FILL MEDIUM

Glycerine Standard

RESTRICTOR

Standard, all ranges

VENT PLUG

Filler/pressure relief plug

TEMPERATURE LIMITS

0 - 140° F (filled)

WEIGHT

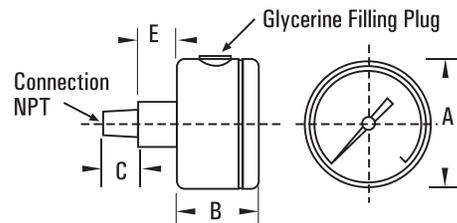
40mm 0.5 lb.
50mm 0.5 lb.

STANDARD RANGES & PART NUMBERS

| TYPE | 40MM & 50MM GAUGES | |
|-----------------------|---------------------|---------------------|
| | 40mm | 50mm |
| Size | 40mm | 50mm |
| Case Material | 304 Stainless Steel | 304 Stainless Steel |
| Internals | Copper Alloy | Copper Alloy |
| Mounting / Case Style | CB | CB |
| Connection | ½ NPT | ½ NPT |
| Scale Standard | psi/BAR/kPa | psi/BAR/kPa |
| 0 to 15 psi | M4040P | M5040P |
| 0 to 30 psi | M4042P | M5042P |
| 0 to 60 psi | M4046P | M5046P |
| 0 to 100 psi | M4048P | M5048P |
| 0 to 160 psi | M4052P | M5052P |

40MM AND 50MM GAUGE OPTIONS

| OPTION | TYPE | SUFFIX | AVAILABLE ON MODELS |
|--------------|---------------|--------|-----------------------------------|
| Custom Dials | Custom face | M | See Marsh Price List for minimums |
| Other Ranges | | | Consult factory for availability |
| Fill Medium | Silicone (SL) | I | Consult factory |



ALL DIMENSIONS ARE NOMINAL

| A-Size | B | C | E |
|----------|------------------|-----------------|------------------|
| 40mm Dia | 27.00mm 1.06" | 11.5mm 0.45" | 13.00mm 0.51" |
| 50mm Dia | 30.00mm 1.18" | 11.5mm 0.45" | 10.00mm 0.39" |



63MM SEVERE SERVICE GAUGE

- 3 Standard Mounting Options: LM, CB and U-Clamp
- Glycerine Filled
- Ranges to 10,000 psi

Marsh Instruments Liquid-Filled Gauges are designed to perform in rugged applications and harsh environmental conditions - especially where pulsation and vibration are a problem. Liquid Filled Gauges offer a significant cushioning and dampening effect, reducing pointer flutter and internal gauge damage; also lubricating the internals, and reducing corrosion.

All stainless steel Liquid Filled Gauges feature a ventable top fill plug for pressure relief and ease of venting after installation. Pressure ranges are available through 10,000 psi, with high pressure ranges offering a Helical Bourdon Tube for longer gauge life and increased durability. The hermetically sealed construction reduces the chance of leaks, and makes field filling an easy option.

Typical applications include refineries, chemical plants, offshore platforms, oil rigs, marine applications, general industrial application and OEM processes.



STANDARD RANGES & PART NUMBERS

| TYPE | 63MM SEVERE SERVICE GAUGES | | | | | |
|-----------------------|----------------------------|--------|--------|---------------------|--------|--------|
| | 63mm | | | 63mm | | |
| Size | 63mm | | | 63mm | | |
| Case Material | 304 Stainless Steel | | | 304 Stainless Steel | | |
| Internals | Copper Alloy | | | Stainless Steel | | |
| Mounting / Case Style | LM | UC | CB | LM | UC | CB |
| Connection | ¼ NPT | ¼ NPT | ¼ NPT | ¼ NPT | ¼ NPT | ¼ NPT |
| Scale Standard | psi/kPa | | | psi/kPa | | |
| 0 to 30" Hg VAC | J7605P | J7205P | J6405P | J7805P | J7405P | J6605P |
| 30" Hg VAC to 15 psi | | | | | | |
| 30" Hg VAC to 30 psi | J7612P | | | | | |
| 30" Hg VAC to 60 psi | J7614P | | | | | |
| 30" Hg VAC to 100 psi | | | | | | |
| 30" Hg VAC to 150 psi | J7618P | J7218P | J6418P | J7818P | J7418P | J6618P |
| 30" Hg VAC to 200 psi | J7620P | J7220P | J6420P | J7820P | J7420P | J6620P |
| 30" Hg VAC to 300 psi | J7624P | J7224P | J6424P | J7824P | J7424P | J6624P |
| 30" Hg VAC to 400 psi | J7626P | J7226P | J6426P | J7826P | J7426P | J6626P |
| 0 to 15 psi | J7640P | J7240P | J6440P | J7840P | J7440P | J6640P |
| 0 to 30 psi | J7642P | J7242P | J6442P | J7842P | J7442P | J6642P |
| 0 to 60 psi | J7646P | J7246P | J6446P | J7846P | J7446P | J6646P |
| 0 to 100 psi | J7648P | J7248P | J6448P | J7848P | J7448P | J6648P |
| 0 to 160 psi | J7652P | J7252P | J6452P | J7852P | J7452P | J6652P |
| 0 to 200 psi | J7654P | J7254P | J6454P | J7854P | J7454P | J6654P |
| 0 to 300 psi | J7658P | J7258P | J6458P | J7858P | J7458P | J6658P |
| 0 to 400 psi | J7660P | J7260P | J6460P | J7860P | J7460P | J6660P |
| 0 to 600 psi | J7664P | J7264P | J6464P | J7864P | J7464P | J6664P |
| 0 to 1,000 psi | J7672P | J7272P | J6472P | J7872P | J7472P | J6672P |
| 0 to 1,500 psi | J7674P | J7274P | J6474P | J7874P | J7474P | J6674P |
| 0 to 2,000 psi | J7676P | J7276P | J6476P | J7876P | J7476P | J6676P |
| 0 to 3,000 psi | J7678P | J7278P | J6478P | J7878P | J7478P | J6678P |
| 0 to 5,000 psi | J7682P | J7282P | J6482P | J7882P | J7482P | J6682P |
| 0 to 6,000 psi | J7684P | J7284P | J6484P | J7884P | J7484P | J6684P |
| 0 to 10,000 psi | | | | J7890P | J7490P | J6690P |

NOTE: Items are available on special order. However, minimums and lead times apply. Consult factory.

SPECIFICATIONS

ACCURACY

ASME Grade B - ±3/2/3% (±2% of range across middle half of scale)

CASE SIZES

63mm (2.47") diameter

CASE MATERIAL

304 Stainless Steel

CASE STYLE

Rolled ring, hermetically sealed case

CB - Center Back Mount

LM - Lower Mount

UC - U-Clamp Mount

TUBE & SOCKET

Copper alloy or 316 stainless steel

MOVEMENT

Brass

CONNECTION

¼ NPT

RANGES

0 to 30" Hg VAC; Compound 30" Hg to 400 psi; 15 to 10,000 psi

DIAL STANDARD

Dual scale psi and kPa

DIAL COLOR

Black markings on white

POINTER

Aluminum, black painted

WINDOW

Polycarbonate

FILL MEDIUM

Glycerine Standard

RESTRICTOR

Standard for all ranges

VENT PLUG

Rubber plug with snip-off feature

WEIGHT

Filled 1.0 lb.

Dry 0.7 lb.

Severe Service



front flange mount

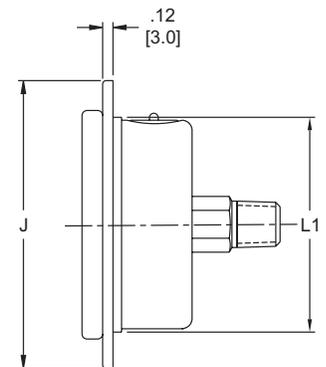
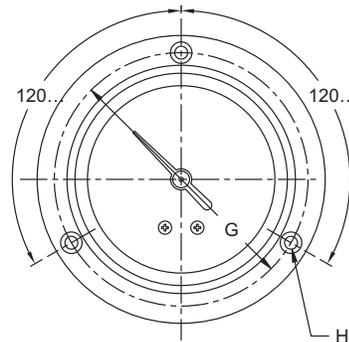
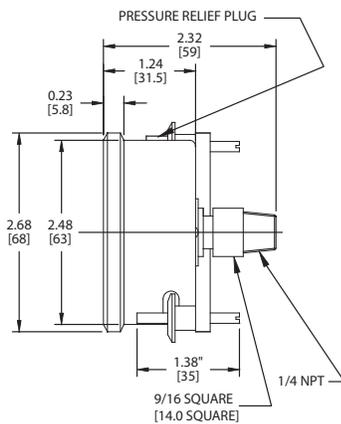
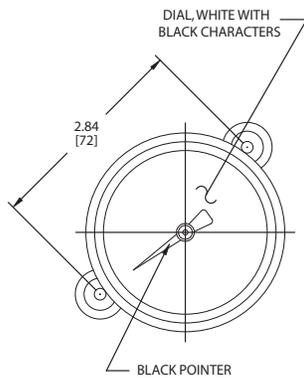


63MM SEVERE SERVICE GAUGE OPTIONS

| OPTION | TYPE | SUFFIX | AVAILABLE ON MODELS |
|------------------------------------|--------------------------|-----------------|--|
| Fill Medium | Dry (no fill) | Delete suffix P | All models |
| | Silicone (SL) | I | All models |
| Front Flange | Adapter ring (3 hole) | R1 | Center Back & U-Clamp only (factory Installed) |
| | Adapter ring (no holes) | R2 | U-Clamp only (factory Installed) |
| Bayonet Case & Ring w/Safety Glass | | J | Center Back or Lower Mount (consult factory) |
| Catalog Dials | psi only | E | See Marsh Price List for minimum |
| | bar only | L1 | |
| | kg/cm ² only | L2 | |
| | kPa only | L3 | |
| | MPa only | L4 | |
| | psi & bar | W1 | |
| | psi & kg/cm ² | W2 | |
| psi & MPa | W4 | | |
| Custom Dials | Logo or Custom face | M | Consult factory for colors and minimums |
| Restrictor | Special restrictor | H | All models - See Marsh Price List for minimum |
| | Restrictor removed | H1 | |
| Increased Accuracy | Grade A (2/1/2%) | B | All models - See Marsh Price List for minimum |
| Special Connections | | | Consult Factory |

Dimension Table

| Gauge Size | Connection | A | C | G | H | K | J | L | L1 |
|------------|------------|-------|-------|-------|-------|-------|------|-------|------|
| 63mm | 1/4" | 2.66" | 1.03" | 2.95" | 0.15" | 0.56" | 3.35 | 2.43" | 2.5" |
| | | 68mm | 26mm | 75mm | 4mm | 14mm | 85mm | 62mm | 64mm |



ALL DIMENSIONS ARE NOMINAL





100MM SEVERE SERVICE GAUGE

- Brass or Stainless Steel Internals
- Ranges to 10,000 psi
- Glycerine Filled

Marsh Instruments Liquid Filled Gauges are designed to perform in rugged applications and harsh environmental conditions - especially where pulsation and vibration are a problem. Liquid Filled Gauges offer a significant cushioning and dampening effect, reducing pointer flutter and internal gauge damage; also lubricating the internals, and reducing corrosion. All stainless steel Liquid Filled Gauges feature a ventable top fill plug for pressure relief and ease of venting after installation. The hermetically sealed construction reduces the chance of leaks, and makes field filling an easy option.

Typical applications include refineries, chemical plants, offshore platforms, oil rigs, marine applications, general industrial application and OEM processes.

STANDARD RANGES & PART NUMBERS

| TYPE | 100MM SEVERE SERVICE GAUGES | | | | | |
|-----------------------|-----------------------------|---------|---------|-----------------|---------|---------|
| Size | 100mm | | | 100mm | | |
| Case Material | Stainless Steel | | | Stainless Steel | | |
| Internals | Copper Alloy | | | Stainless Steel | | |
| Mounting / Case Style | LM | CB | UC | LM | CB | UC |
| Connections (NPT) | ¼ NPT | ¼ NPT | ¼ NPT | ¼ NPT | ¼ NPT | ¼ NPT |
| Scale Standard | psi/kPa | | | psi/kPa | | |
| 0 to 30" Hg VAC | X32965P | | | X32967P | | |
| 30" Hg VAC to 30 psi | X32501P | | | | | |
| 30" Hg VAC to 60 psi | X32502P | | | | | |
| 30" Hg VAC to 100 psi | | | | | | |
| 30" Hg VAC to 150 psi | X32887P | X32901P | X32894P | X32929P | X32941P | X32935P |
| 30" Hg VAC to 200 psi | X32888P | X32902P | X32895P | X32930P | X32942P | X32936P |
| 30" Hg VAC to 300 psi | X32889P | X32903P | X32896P | X32931P | X32943P | X32937P |
| 0 to 15 psi | X32504P | X32546P | X32525P | X32630P | X32678P | X32654P |
| 0 to 30 psi | X32505P | X32547P | X32526P | X32631P | X32679P | X32655P |
| 0 to 60 psi | X32506P | X32548P | X32527P | X32632P | X32680P | X32656P |
| 0 to 100 psi | X32507P | X32549P | X32528P | X32633P | X32681P | X32657P |
| 0 to 160 psi | X32508P | X32550P | X32529P | X32634P | X32682P | X32658P |
| 0 to 200 psi | X32509P | X32551P | X32530P | X32635P | X32683P | X32659P |
| 0 to 300 psi | X32510P | X32552P | X32531P | X32636P | X32684P | X32660P |
| 0 to 400 psi | X32511P | X32553P | X32532P | X32637P | X32685P | X32661P |
| 0 to 600 psi | X32512P | X32554P | X32533P | X32638P | X32686P | X32662P |
| 0 to 1,000 psi | X32513P | X32555P | X32534P | X32639P | X32687P | X32663P |
| 0 to 1,500 psi | X32514P | X32556P | X32535P | | | |
| 0 to 2,000 psi | X32515P | X32557P | X32536P | X32641P | X32689P | X32665P |
| 0 to 3,000 psi | X32516P | X32558P | X32537P | X32642P | X32690P | X32666P |
| 0 to 5,000 psi | X32518P | X32560P | X32539P | X32644P | X32692P | X32668P |
| 0 to 6,000 psi | X32519P | X32561P | X32540P | X32645P | X32693P | X32669P |
| 0 to 10,000 psi | | | | X32647P | X32695P | X32671P |

NOTE: Items are available on special order. However, minimums and lead times apply. Consult factory.

SPECIFICATIONS

ACCURACY
ASME Grade A - ±2 1/2% (±1% of range across middle half of scale)

CASE SIZES
100mm (3.89") diameter

CASE MATERIAL
304 Stainless Steel

CASE STYLE
Rolled ring, hermetically sealed case
CB - Center Back Mount
LM - Lower Mount
UC - U-Clamp Mount

TUBE & SOCKET
Copper alloy or 316 stainless steel

MOVEMENT
Brass

CONNECTION
¼ NPT

RANGES
0 to 30" Hg VAC
Compound 30" Hg VAC to 300 psi
15 to 10,000 psi

DIAL STANDARD
Dual scale psi & kPa

DIAL COLOR
Black markings on white

POINTER
Aluminum, black painted

WINDOW
Polycarbonate

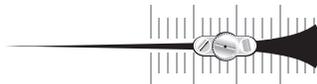
FILL MEDIUM
Glycerine Standard

RESTRICTOR
Standard for all ranges

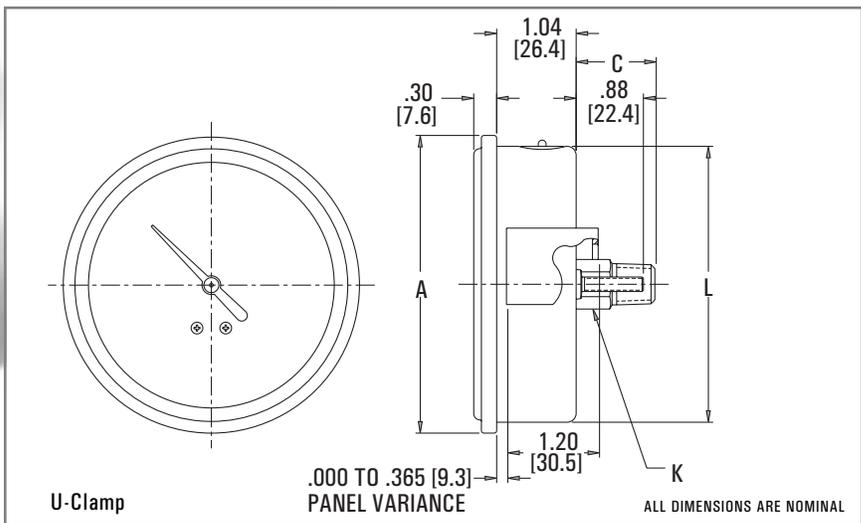
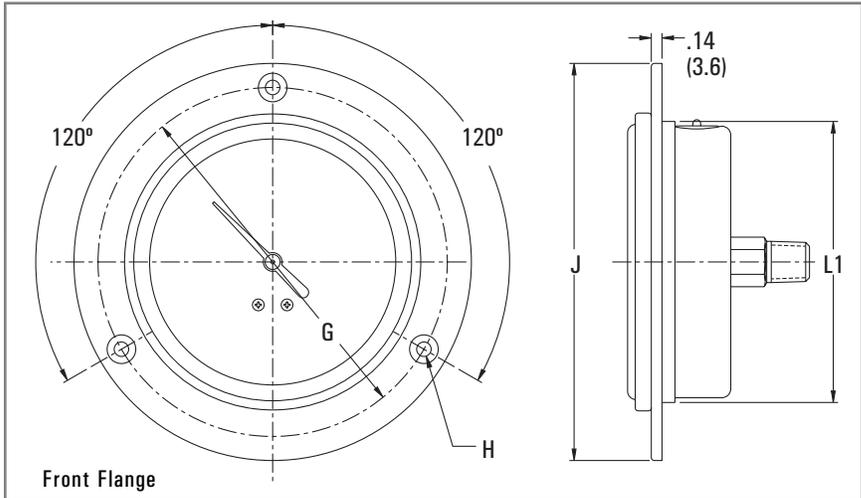
VENT PLUG
Rubber plug with snip-off feature

WEIGHT
Filled 1.0 lb.
Dry 0.8 lb.

Severe Service



| 100MM SEVERE SERVICE GAUGE OPTIONS | | | |
|------------------------------------|--------------------------|-----------------|--|
| OPTION | TYPE | SUFFIX | AVAILABLE ON MODELS |
| Fill Medium | Dry (no fill) | Delete suffix P | All models |
| | Silicone (SL) | I | All models |
| Front Flange | Adapter Ring (3 hole) | R | U-Clamp & Center Back only (factory installed) |
| Catalog Dials | psi only | E | See Marsh Price List for minimum |
| | bar only | L1 | |
| | kg/cm ² | L2 | |
| | kPa only | L3 | |
| | MPa | L4 | |
| | psi & bar | W1 | |
| | psi & kg/cm ² | W2 | |
| psi & MPa | W4 | | |
| Custom Dials | Logo or custom face | M | Consult factory for colors and minimums. |
| Restrictor | Special restrictor | H | All models - See Marsh Price List for minimum |
| | Restrictor removed | H1 | All models - See Marsh Price List for minimum |
| Increased Accuracy | Grade 1A ± 1% full scale | B | All models - See Marsh Price List for minimum |
| Special Connections | | | Consult factory for Availability |



| Gauge Size | Conn- ection | A | C | G | H | K | J | L | L1 |
|------------|-----------------|---------------|---------------|----------------|--------------|---------------|----------------|---------------|---------------|
| 100mm | ¼" | 3.90" 99mm | 1.03" 26mm | 4.57" 116mm | 0.19" 5mm | 9/16" 14mm | 5.20" 132mm | 3.62" 92mm | 3.68" 94mm |



63MM & 100MM BRASS GAUGE

- Forged Brass case (one piece construction)
- Ranges to 10,000PSI
- Heavy Duty Performance

Marsh forged brass gauges are designed for top performance in rugged applications and harsh environments, where corrosive gas or media is not an issue. Applications include Oil patch, Hydraulics, Natural gas, OEM and General Industrial applications where superior quality is required. Liquid Filling protects against pulsation and vibration offering a cushioning and dampening effect. The hermetically sealed one piece design reduces the chance of leaks and allows field filling as an easy option.

STANDARD RANGES & PART NUMBERS

| TYPE | 63MM BRASS | 100MM BRASS |
|-----------------------|--------------|--------------|
| Size | 63mm | 100mm |
| Case Material | Forged Brass | Forged Brass |
| Internals | Copper Alloy | Copper Alloy |
| Mounting / Case Style | LM | LM |
| Connection | ¼ NPT | ½ NPT |
| Scale Standard | psi | psi |
| 0 to 30" Hg VAC | W9005PE | W9405PE |
| 30" Hg VAC to 30 psi | W9012PE | W9412PE |
| 30" Hg VAC to 60 psi | W9014PE | W9414PE |
| 30" Hg VAC to 100 psi | W9016PE | W9416PE |
| 30" Hg VAC to 200 psi | W9020PE | W9420PE |
| 0 to 15 psi | W9040PE | W9440PE |
| 0 to 30 psi | W9042PE | W9442PE |
| 0 to 60 psi | W9046PE | W9446PE |
| 0 to 100 psi | W9048PE | W9448PE |
| 0 to 160 psi | W9052PE | W9452PE |
| 0 to 200 psi | W9054PE | W9454PE |
| 0 to 300 psi | W9058PE | W9458PE |
| 0 to 400 psi | W9060PE | W9460PE |
| 0 to 600 psi | W9064PE | W9464PE |
| 0 to 1,000 psi | W9072PE | W9472PE |
| 0 to 1,500 psi | W9074PE | W9474PE |
| 0 to 2,000 psi | W9076PE | W9476PE |
| 0 to 3,000 psi | W9078PE | W9478PE |
| 0 to 5,000 psi | W9082PE | W9482PE |
| 0 to 10,000 psi | W9090PE | W9490PE |



SPECIFICATIONS

ACCURACY

63mm: ±1.6% of range across full scale
100mm: ASME Grade 1A - ±1% of range across full scale

CASE SIZES

63mm: diameter (2.5")
100mm: diameter (4.0")

CASE MATERIAL

Forged Brass

CASE STYLES

LM - Lower Mount

TUBE & SOCKET

Copper alloy

MOVEMENT

Brass

CONNECTION

63mm: ¼ NPT
100mm: ½ NPT

RANGES

0-30" Hg vacuum;
compound ranges 30" Hg vacuum to 200 psi; and 15-10,000 psi

DIAL STANDARD

Single Scale psi

DIAL COLOR

Black markings on white

POINTER

Aluminum, black painted

WINDOW

Acrylic

RING

63mm: Gold Plated ABS
100mm: Chrome Plated Steel

FILL MEDIUM

Glycerine Standard

VENT

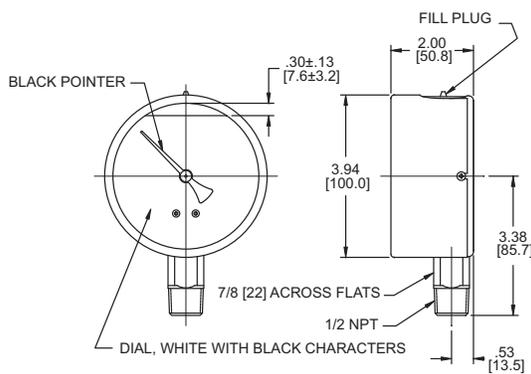
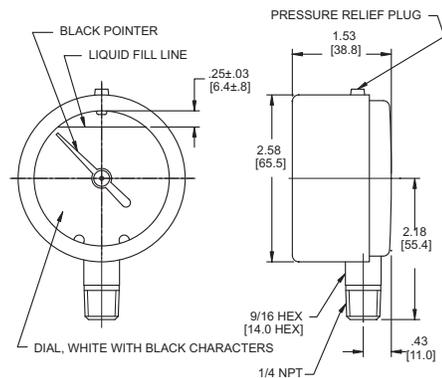
Rubber plug with snip-off feature

WEIGHT

63mm 3.0 lb.
100mm 4.0 lb.

ALL DIMENSIONS ARE NOMINAL

63MM BRASS | 100MM BRASS



63MM & 100MM BRASS GAUGE OPTIONS

| OPTION | TYPE | SUFFIX | AVAILABLE ON MODELS |
|---------------|--------------------------|-----------------|-------------------------------|
| Fill Medium | Dry (no fill) | Delete Suffix P | Consult factory for minimums |
| | Glycerine | Standard | |
| | Silicone (SL) | I | |
| Catalog Dials | Bar only | L1 | |
| | kg/cm ² only | L2 | |
| | kPa only | L3 | |
| | MPa only | L4 | |
| | psi & BAR | W1 | |
| | psi & kg/cm ² | W2 | |
| | psi & kPa | W3 | |
| psi & MPa | W4 | | |
| Custom Dials | Logo or Custom Face | M | Consult factory for minimums. |