

## Type 1377 Duragauge® Pressure Gauge with **PLUS!™** Performance Option



- **4½" full-size Bourdon tube**
- **Patented Duratube™ with as-welded-tube construction controls stress for longer life**
- **"Round Cap Tip" construction lowers stresses for longer life**
- **Micrometer adjustable pointer.**
- **Exclusive Teflon coated 400 series stainless steel rotary movement for longer life**
- **PLUS!™ Performance Option:**
  - Liquid-filled performance in a dry gauge
  - Fights vibration and pulsations without liquid-filled headaches
  - Order as option XLL
- **Epoxy-coated system for superior corrosion resistance**

Type 1377 Duragauge® pressure gauge is offered in 4½", 6" and 8½" dial sizes.

Designed for flush mounting, this solid-front gauge is ideal for panel board applications. Its black epoxy coating and its tough aluminum weatherproof case easily allow application in a variety of climatic conditions.

### PRODUCT SPECIFICATIONS

**Model Number:** 1377

**Accuracy:** ½% full scale (Grade 2A, ASME B40.100)

**Ranges:** Vacuum – 30,000 psi

**Dial Size:** 4½", 6", 8½" diameter

**Case Material:** Aluminum, black epoxy coated

**Weather**

**Protection:** Dry Case: IP54

### TEMPERATURE LIMITS

|     | Ambient                 | Process                  | Storage                  |
|-----|-------------------------|--------------------------|--------------------------|
| Dry | -20/200°F<br>(-29/93°C) | -20/250°F<br>(-29/121°C) | -40/250°F<br>(-40/121°C) |

**Note:** Other than discoloration of the dial and hardening of the gasketing that may occur as ambient or process temperatures exceeds 150°F, non-liquid-filled gauges with standard glass windows, can withstand continuous operating temperatures up to 250°F (121°C). Accuracy at temperatures above or below the reference ambient temperature of 68°F (20°C) will be affected by approximately .4% per 25°F. Gauges with welded joints will withstand 750°F (450°F (232°C) with silver brazed joints) for short times without rupture, although other parts of the gauge will be destroyed and calibration will be lost. For continuous use and for process or ambient temperatures above 250°F (121°C), a diaphragm seal or capillary or siphon is recommended.

**Ring:** Hinged steel, black enamel  
**Window:** Glass  
**Dial:** Aluminum, white background, black pressure scale.  
**Pointer:** Micrometer adjustable  
**Movement:** Rotary, 400 SS, Teflon® coated pinion gear and segment  
**Bourdon Tube:** C510 Phos. bronze/brass  
 (A)<sup>(1)</sup> 316L SS/steel (R)<sup>(2)</sup>  
 316L SS/316L SS (S)<sup>(2)</sup>  
 K Monel/Monel (P)<sup>(2)</sup>

**Connection Size:** ¼", ½" NPT

**Connection Location:** Lower or back

### PRODUCT OPTIONS

**PLUS!™ Performance:** XLL

**Fill:** Dry Only

**Receiver Gauge:** XPR

**Shatter Proof**

**Glass Window:** XSG

**Acrylic Window:** XPD

**Set Hand:** XSH

**Maximum**

**Pointer:** XEP

<sup>(1)</sup> Joints silver brazed

<sup>(2)</sup> Joints welded

### STANDARD RANGE TABLE\*

| Pressure – psi |                 |                  |
|----------------|-----------------|------------------|
| Range          | Figure interval | Minor Graduation |
| 0/15           | 1               | 0.1              |
| 0/30           | 5               | 0.2              |
| 0/60           | 5               | 0.5              |
| 0/100          | 10              | 1                |
| 0/160          | 20              | 2                |
| 0/200          | 20              | 2                |
| 0/300          | 50              | 2                |
| 0/400          | 50              | 5                |
| 0/600          | 50              | 5                |
| 0/800          | 100             | 10               |
| 0/1000         | 100             | 10               |
| 0/1500         | 200             | 20               |
| 0/2000         | 200             | 20               |
| 0/3000         | 500             | 20               |
| 0/5000         | 500             | 50               |
| 0/6000         | 500             | 50               |
| 0/10,000       | 1000            | 100              |
| 0/20,000       | 2000            | 200              |
| 0/30,000       | 5000            | 200              |

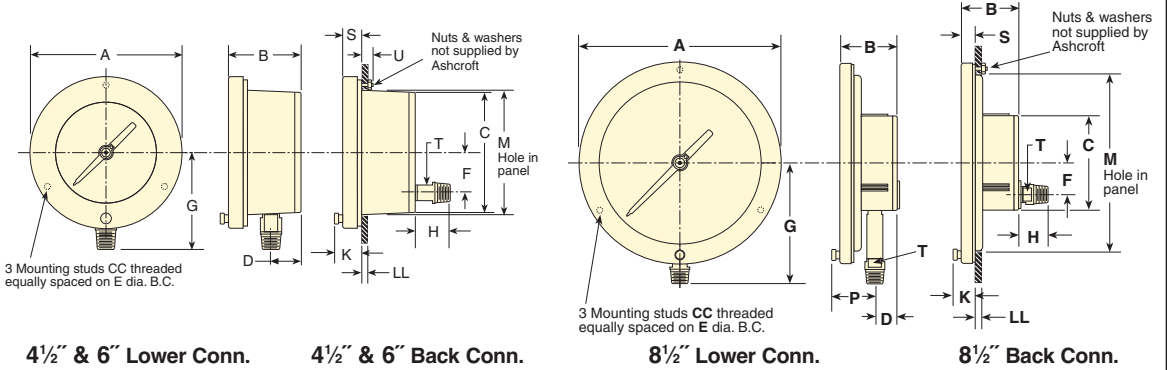
| Compound       |                 |     |             |     |
|----------------|-----------------|-----|-------------|-----|
| Range          | Figure Interval |     | Minor Grads |     |
|                | in Hg           | psi | in Hg       | psi |
| 30" Hg/15 psi  | 5               | 3   | 0.5         | 0.2 |
| 30" Hg/30 psi  | 10              | 5   | 1           | 0.5 |
| 30" Hg/60 psi  | 10              | 10  | 1           | 1   |
| 30" Hg/100 psi | 10              | 10  | 2           | 1   |
| 30" Hg/150 psi | 10              | 20  | 5           | 2   |
| 30" Hg/200 psi | 30              | 20  | 5           | 2   |
| 30" Hg/300 psi | 30              | 50  | 5           | 2   |

| Vacuum                   |                 |             |
|--------------------------|-----------------|-------------|
| Range                    | Figure Interval | Minor Grads |
| 30/0 in. Hg              | 5 in            | 0.2 in      |
| 34/0 ft H <sub>2</sub> O | 5 ft            | 0.5 ft      |

\*Full standard and metric equivalent range table available on our web site.

## Type 1377 Duragauge® Pressure Gauge with **PLUS!**™ Performance Option

### Dimension

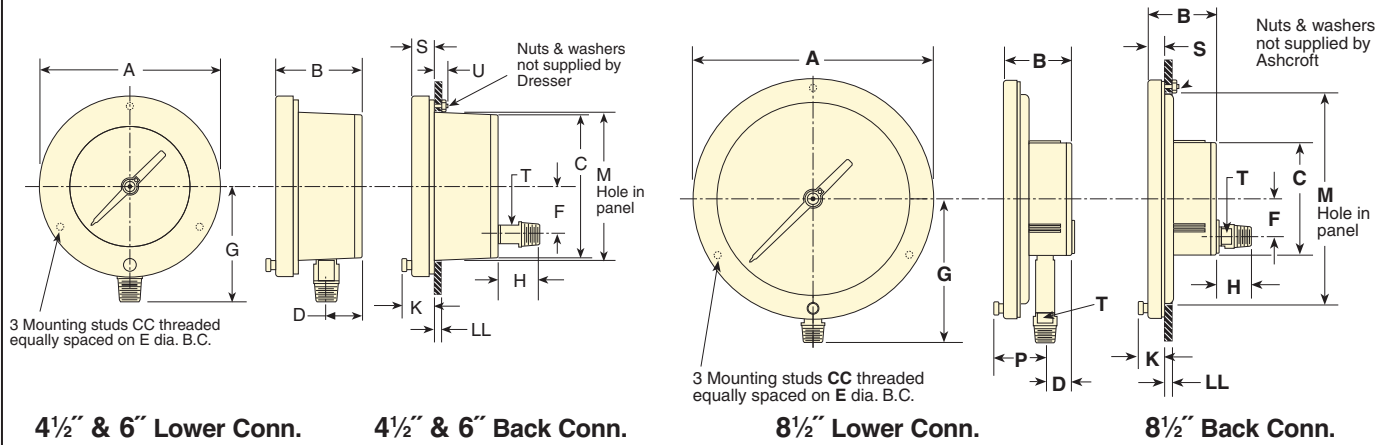


| Dial Size Inches | A            | B          | C           | D          | E           | F          | G             | H          | K          | M           | P          | S        | T        | U        | CC     | LL                | Weight (lbs) |
|------------------|--------------|------------|-------------|------------|-------------|------------|---------------|------------|------------|-------------|------------|----------|----------|----------|--------|-------------------|--------------|
| 4 1/2            | 6 (152)      |            |             |            | 5 3/8 (137) |            | 3 15/16 (100) |            |            | 4 7/8 (124) |            |          |          |          | #10-24 |                   | 2.5 DRY      |
| 6                | 7 7/8 (192)  | 2 7/8 (73) | 4 3/4 (121) | 1 1/8 (27) | 7 (178)     | 1 5/8 (41) | 4 1/2 (114)   | 1 3/8 (35) | 1 1/8 (27) | 6 1/2 (165) | 2 1/8 (54) | 5/8 (16) | 5/8 (16) | 3/4 (19) | 1/4-20 | 1 5/8-1/2 (3)(13) | 2.5 DRY      |
| 8 1/2            | 10 1/8 (257) |            |             |            | 9 5/8 (244) |            | 6 (152)       |            |            | 9 (229)     |            |          |          |          | 1/4-20 |                   | 4.5 DRY      |

### Order Coding Example

| 45         | 1377 | S                                    |                    | S                          | 04  | L                      | XSG  | 100   | #   |
|------------|------|--------------------------------------|--------------------|----------------------------|---|------------------------|--|---|---|
| SIZE       | TYPE | SYSTEM (TUBE & SOCKET<br>Tube Socket |                    | CASE DESIGN<br>SOLID FRONT | PROCESS<br>CONNECTION SIZE  | CONNECTION<br>LOCATION | OPTIONS<br>(X VARIATIONS) <sup>(1)</sup>                                   | RANGE   | ENGINEERING<br>UNITS <sup>(1)</sup>                     |
| (45)<br>4½ | 1377 | (A) Phos. Bronze                     | Brass              | (S) Solid Front            | (02) 1/4 NPT male <sup>(1)</sup>  | (B) Back               | (GV) Silicone case fill  | See website<br>for most<br>common ranges<br>offered | (#) PSI   |
|            |      | (P) K-Monel                          | Monel 400          |                            | (04) 1/2 NPT male <sup>(1)</sup>  | (D) Side (3:00)        | (GX) Halocarbon case fill  |   | (BR)) Bar   |
| (60)<br>6  |      | (R) AISI 316SS                       | AISI 1019<br>steel |                            | (09) 9/16-18 UNF-2B<br>Aminco (standard<br>for high pressure<br>>20,000psi) | (E) Side (9:00)        | (NH) St. St. Wired Tag   |   | (KG) Kilograms/CM2                                      |
|            |      | (S) AISI 316SS                       | AISI 316SS         |                            | <sup>(1)</sup> Max pressure 20,000psi                                       | (L) Lower              | (TS) Throttle screw <sup>(2)</sup>   |   | (KP) Kilopascal   |
| (85)<br>8½ |      |                                      |                    |                            |   | (T) Top (12:00)        | (6B) Oxygen service  |   | (IMV) Inches of Mercury<br>Vacuum                       |
|            |      |                                      |                    |                            |   |                        | (PD) Acrylic window  |   | <sup>(1)</sup> See website for more<br>units of measure |
|            |      |                                      |                    |                            |   |                        | (SG) Safety glass  |   |   |
|            |      |                                      |                    |                            |   |                        | (EP) Maximum pointer,<br>adjustable  |   |   |
|            |      |                                      |                    |                            |   |                        | (SH) Red set hand,<br>stationary   |   |   |
|            |      |                                      |                    |                            |   |                        | (LL) <b>PLUS!</b> Performance  |   |   |
|            |      |                                      |                    |                            |   |                        | (56) Flush mounting ring   |   |   |
|            |      |                                      |                    |                            |   |                        | (C4) Individual calibration chart  |   |   |
|            |      |                                      |                    |                            |   |                        | <sup>(1)</sup> Others on request   |   |   |
|            |      |                                      |                    |                            |   |                        | <sup>(2)</sup> Standard with hermetically<br>sealed or liquid filled gauge |   |   |

## Dimension



| Dial Size Inches | A               | B              | C               | D              | E            | F          | G                | H          | K          | M              | P             | S           | T           | U           | CC            | LL                     | Weight (lbs) |
|------------------|-----------------|----------------|-----------------|----------------|--------------|------------|------------------|------------|------------|----------------|---------------|-------------|-------------|-------------|---------------|------------------------|--------------|
| 4 1/2            | 6.07<br>(154)   | 2.81<br>(71.4) |                 | 1.54<br>(39.1) | xxx<br>(137) |            | 3 15/16<br>(100) |            |            | 4 7/8<br>(124) |               |             |             |             | #10-24        |                        | 2 1/2        |
| 6                | 7.50<br>(190.5) | 3.05<br>(77.5) | 4.76<br>(120.6) | 1.68<br>(42.7) | xxx<br>(178) | xxx<br>xxx | 4 1/2<br>(114)   | xxx<br>xxx | xxx<br>xxx | 6 1/2<br>(165) | 2 1/8<br>(54) | 5/8<br>(16) | 5/8<br>(16) | 3/4<br>(19) | 1/4-20<br>(3) | 1 1/8-1 1/2<br>(3)(13) | 3            |
| 8 1/2            | 9.96<br>(253)   | 3.05<br>(77.4) |                 | xxx<br>xxx     | xxx<br>(244) |            | 6<br>(152)       |            |            | 9<br>(229)     |               |             |             |             | 1/4-20        |                        | 4 1/2        |