

## GENERAL PURPOSE GAUGES

# Series P-500 Low Cost Utility Gauges

## DESCRIPTION

U.S. Gauge Series P-500 utility gauges provide economical, reliable service in a wide variety of applications including pumps, compressors, and other equipment.

Series P-500 utility gauges come in PSI standard ranges with accuracy of  $\pm 3-2-3\%$ .

Gauges are available in 1-1/2", 2", 2-1/2", 3-1/2", and 4-1/2" steel cases in center-back and lower mount configurations.

Low lead offerings that meet "Reduction of Lead in Drinking Water Act" also available. See Low Lead Series P-500 products.

## SPECIFICATIONS

**SIZES:** 1-1/2", 2", 2-1/2", 3-1/2", and 4-1/2"

**RANGES:** 30" Hg VAC through 0-5000 psi

**ACCURACY:**  $\pm 3-2-3\%$  (Grade B)

**BOURDON TUBE:** Phosphor bronze

**WINDOW:** Glass except 1-1/2" is polycarbonate

**MOVEMENT:** Brass

**DIAL:** Galvalume with white background and black markings

**POINTER:** Aluminum, painted black (optional lazy hand or tattle pointer for 2-1/2" and 3-1/2" versions)

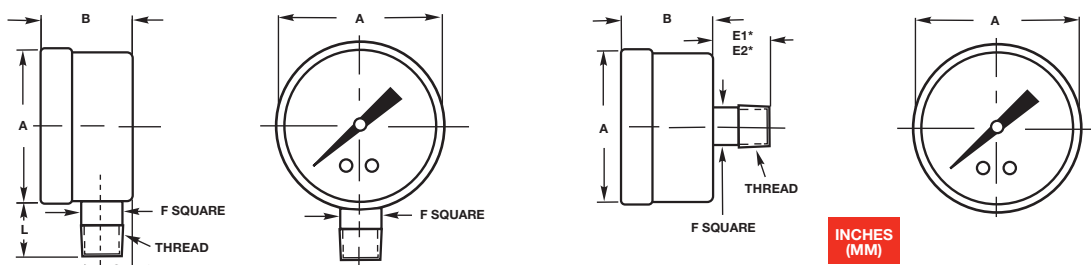
**CASE:** Black painted steel

**CONNECTION:** Brass, center-back or lower mount  
1/8-27 NPT for 1-1/2" and 2"; 1/4-18 NPT for 2" through 4-1/2"

Other sizes, ranges, and mounting configurations are available for OEM quantities. Custom dials are also available.



**Model P-500**  
Center-Back Mount (left)  
and Lower Mount



## Dimensions – P-500

| Model Number | Dial Sizes | Unit   | A      | B     | C     | E1    | E2    | F     | L     |
|--------------|------------|--------|--------|-------|-------|-------|-------|-------|-------|
| P-500        | 1-1/2"     | inches | 1.64   | .92   | .34   | .62   | —     | .44   | .55   |
|              |            | mm     | 41.66  | 23.37 | 8.66  | 15.75 | —     | 11.18 | 13.97 |
|              | 2"         | inches | 2.16   | 1.15  | .40   | .84   | .90   | .55   | .87   |
|              |            | mm     | 54.86  | 29.21 | 10.16 | 21.34 | 22.86 | 13.97 | 22.10 |
|              | 2-1/2" LM  | inches | 2.73   | 1.15  | .39   | .48   | .25   | .82   | —     |
|              |            | mm     | 69.34  | 29.21 | 9.91  | 12.19 | 6.35  | 20.83 | —     |
|              | 2-1/2" CBM | inches | 2.49   | 1.21  | 1.22  | —     | .28   | .84   | —     |
|              |            | mm     | 63.25  | 30.73 | 30.99 | —     | 7.11  | 21.34 | —     |
|              | 3-1/2" LM  | inches | 3.53   | 1.17  | .40   | —     | .24   | .83   | —     |
|              |            | mm     | 89.66  | 29.72 | 10.16 | —     | 6.10  | 21.08 | —     |
|              | 4-1/2" LM  | inches | 4.80   | 1.12  | .38   | —     | .45   | 1.10  | —     |
|              |            | mm     | 121.92 | 28.45 | 9.65  | —     | 11.43 | 27.94 | —     |

\* Length E1 refers to 1/8 NPT connections; E2 refers to 1/4 NPT connections



**GENERAL PURPOSE GAUGES**



# Series P-500 Low Cost Utility Gauges

## Spec Number Selection Chart

| Series P-500 |               |                 |             |                 |                 |                 |
|--------------|---------------|-----------------|-------------|-----------------|-----------------|-----------------|
| Connection   | Ranges        | 1-1/2" Spec No. | 2" Spec No. | 2-1/2" Spec No. | 3-1/2" Spec No. | 4-1/2" Spec No. |
| 1/8-27 LM    | 0-15 psi      | 146000A         | 052420A     | —               | —               | —               |
|              | 0-30 psi      | 166327          | 163931      | 059306A         | —               | —               |
|              | 0-60 psi      | 146002A         | 164005      | 058129A         | —               | —               |
|              | 0-100 psi     | 166318          | 163271      | 049660A         | —               | —               |
|              | 0-160 psi     | 146004A         | 048302A     | 048536A         | —               | —               |
|              | 0-200 psi     | 166777          | 046645A     | 050852A         | —               | —               |
|              | 0-300 psi     | 146006A         | 048363A     | 046647A         | —               | —               |
|              | 0-600 psi     | 146007A         | —           | —               | —               | —               |
|              | 0-1000 psi    | 146008A         | —           | —               | —               | —               |
| 1/8-27 CBM   | 0-2000 psi    | 146009A         | —           | —               | —               | —               |
|              | 0-15 psi      | 146010A         | —           | —               | —               | —               |
|              | 0-30 psi      | 166320          | 163930      | —               | —               | —               |
|              | 0-60 psi      | 166321          | 055155A     | —               | —               | —               |
|              | 0-100 psi     | 166322          | 046776A     | —               | —               | —               |
|              | 0-160 psi     | 166323          | 070791A     | —               | —               | —               |
|              | 0-200 psi     | 146015A         | 102673A     | —               | —               | —               |
|              | 0-300 psi     | 146016A         | 051805A     | —               | —               | —               |
|              | 0-600 psi     | 146017A         | —           | —               | —               | —               |
| 1/4-18 LM    | 0-1000 psi    | 146018A         | —           | —               | —               | —               |
|              | 0-2000 psi    | 146019A         | —           | —               | —               | —               |
|              | 0-15 psi      | —               | 047615A     | 047102A         | 5502A           | 5546A           |
|              | 0-30 psi      | —               | 163149      | 163278          | 168536          | 5804A           |
|              | 0-60 psi      | —               | 163269      | 163279          | 168537          | 5551A           |
|              | 0-100 psi     | —               | 162988      | 163280          | 168538          | 5554A           |
|              | 0-160 psi     | —               | 163270      | 163281          | 168539          | 5559A           |
|              | 0-200 psi     | —               | 163147      | 163282          | 168540          | 5561A           |
|              | 0-300 psi     | —               | 163148      | 163283          | 168541          | 5563A           |
|              | 0-400 psi     | —               | 047492A     | 049611A         | 5515A           | 12265A          |
|              | 0-600 psi     | —               | 047493A     | 046648A         | 5516A           | 5337A           |
|              | 0-1000 psi    | —               | 047494A     | 047496A         | 5519A           | 12266A          |
|              | 0-2000 psi    | —               | —           | 171398A         | —               | —               |
| 1/4-18 CBM   | 0-3000 psi    | —               | —           | 171400A         | —               | —               |
|              | 0-5000 psi    | —               | —           | 143072A         | —               | —               |
|              | 0-15 psi      | —               | 046987A     | 052827A         | —               | —               |
|              | 0-30 psi      | —               | 163949      | 165213          | —               | —               |
|              | 0-60 psi      | —               | 163272      | 165214          | —               | —               |
|              | 0-100 psi     | —               | 163273      | 163284          | —               | —               |
|              | 0-160 psi     | —               | 163274      | 163285          | —               | —               |
|              | 0-200 psi     | —               | 163275      | 163286          | —               | —               |
|              | 0-300 psi     | —               | 163276      | 163287          | —               | —               |
|              | 0-600 psi     | —               | 046991A     | 050851A         | —               | —               |
|              | 0-1000 psi    | —               | —           | 050870A         | —               | —               |
|              | 0-2000 psi    | —               | —           | 171399A         | —               | —               |
|              | 0-3000 psi    | —               | —           | 171401A         | —               | —               |
| 1/8-27 LM    | 30"-0-15 psi  | —               | 66662A      | —               | —               | —               |
|              | 30"-0-60 psi  | —               | 47925A      | —               | —               | —               |
|              | 30"-0-150 psi | —               | 49609A      | —               | —               | —               |
| 1/4-18 LM    | 30"-0-15 psi  | —               | 47000A      | 47001A          | 5493A           | 63754A          |
|              | 30"-0-30 psi  | —               | 167218      | 47105A          | 5495A           | 5549A           |
|              | 30"-0-60 psi  | —               | 57548A      | 46646A          | 5496A           | 12290A          |
|              | 30"-0-150 psi | —               | 50517A      | 47411A          | 5499A           | 12292A          |
|              | 30"-0-300 psi | —               | —           | 58156A          | 15936A          | —               |
| 1/8-27 LM    | 30"-0         | 146020A         | 47225A      | —               | —               | —               |
| 1/8-27 CBM   | 30"-0         | 146021A         | —           | —               | —               | —               |
| 1/4-18 LM    | 30"-0         | —               | 163712      | 171222A         | 171223A         | 5333A           |