



**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

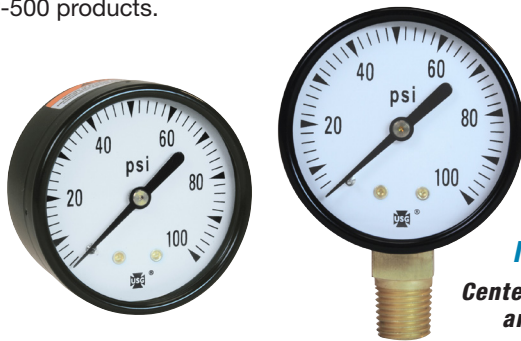
**DIAL:** Galvalume with white background and black markings

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

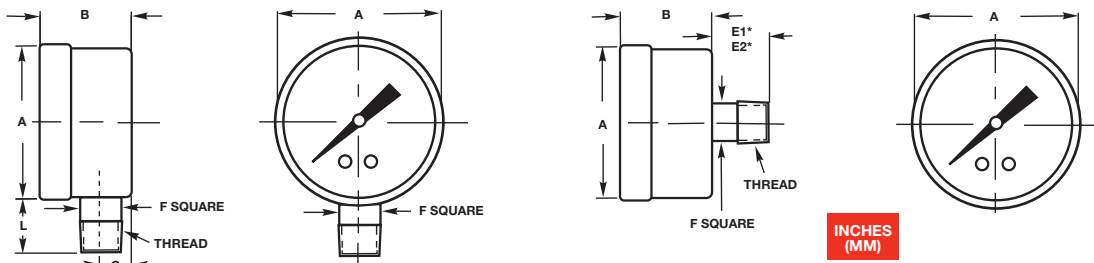
**CASE:** Black painted steel

**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



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## 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         | -           | -               | -               | -               |
|               | 0-2000 psi    | 146009A         | -           | -               | -               | -               |
| 1/8-27 CBM    | 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         | -           | -               | -               | -               |
|               | 0-1000 psi    | 146018A         | -           | -               | -               | -               |
|               | 0-2000 psi    | 146019A         | -           | -               | -               | -               |
| 1/4-18 LM     | 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         | -               | -               |
|               | 0-3000 psi    | -               | -           | 171400A         | -               | -               |
|               | 0-5000 psi    | -               | -           | 143072A         | -               | -               |
|               | 1/4-18 CBM    | 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           |



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