

- **±0.1% F.S. accuracy – ASME B40.1, Grade 4A**
- **Ranges from 12-100,000 psi**
- **Solid front protective case**
- **High and low pressure limit stops**
- **Mirror band dial to eliminate parallax reading error**
- **Optional temperature compensation maintains 0.1% accuracy from -25 to +125°F**

The Heise precision pressure gauge yields consistent, reliable accuracy through the use of state-of-the-art precision machining and the world's most refined ("Hi-Tech") bourdon tube technology. This eliminates the need for a power source and precludes the associated problems such as susceptibility to electronic line noise, power outage or potential fire hazard. In addition, this mechanical instrument is simple to operate, easy to troubleshoot, and can be readily flushed or purged to remove foreign matter or trapped gas. That's why the Heise precision dial gauge is the #1 choice in precision mechanical instrumentation.



### FEATURES & SPECIFICATIONS (STANDARD ON ALL MODELS)

|   |  |  |
|---|--|--|
| <b>Total Accuracy</b><br>±0.1% F.S.<br>Includes Certificate of NIST traceability  | <b>Dial</b><br>White, high resolution with mirror band             | <b>Case</b><br>Cast aluminum solid front<br>Blowout rear cover<br>Integral panel mounting flange             |
| <b>Repeatability</b><br>±0.02% F.S.   | <b>Pointer</b><br>Knife edge pointer to eliminate parallax errors  | <b>Ranges</b><br>Available in Gauge, Compound, Vacuum and Absolute (requires manual barometric compensation) |
| <b>Hysteresis</b><br>±0.1% F.S. (except model CC gauges equipped with 316SS Bourdon tubes; hysteresis may exceed 0.1% F.S. and is not guaranteed) | <b>Bourdon Tube</b><br>Bleeder tipped for easy flushing or purging |  |

|                       | CC                   | CM  | CMM                         |
|-----------------------|----------------------|---|-----------------------------|
| <b>Pointer Travel</b> | 300°                 | 350° (15-30,000 psi)<br>300° (40,000-50,000 psi)<br>270° (60,000-100,000 psi) | 660°<br>(double revolution) |
| <b>Ranges</b>         | 0/12-0/30/30,000 psi | 0/15-0/100,000 psi  | 0/30-0/10,000 psi           |
| <b>Dial Sizes</b>     | 8 1/2", 12" & 16"    | 6", 8 1/2", 12" & 16"   | 6", 8 1/2", 12" & 16"       |

### INLETS AND BOURDON TUBES (STANDARD VS. OPTIONS)

| Inlet Location                | STANDARD   | OPTIONAL   |
|-------------------------------|--|--|
|                               | Back   | Bottom or Back   |
| <b>Inlet Fittings</b>         | <ul style="list-style-type: none"> <li>• 1/4 NPT female fitting (ranges up to and including 10,000 psi)</li> <li>• 9/16-18 UNF-2B high pressure for 1/4" O.D. high pressure tubing (ranges over 10,000 psi)</li> </ul> | <ul style="list-style-type: none"> <li>• 1/4 NPT female fitting (standard with back location)</li> <li>• 1/4 NPT male</li> <li>• 1/8 NPT male or female</li> <li>• 9/16-18 UNF-2B high pressure for 1/4" O.D. high pressure tubing</li> <li>• MS33656-4 male (7/16-20, 37° flare for 1/4" flare tubing)</li> <li>• AND10050-4/MS33649-4 female (7/16-20, 37° flare for 1/4" flare tubing)</li> </ul> |
| <b>Bourdon Tube Materials</b> | <ul style="list-style-type: none"> <li>• Beryllium copper (through 40 psi)</li> <li>• 403 SS (50 psi and above)</li> </ul>   | <ul style="list-style-type: none"> <li>• Beryllium copper (50-5000 psi)</li> <li>• 403 SS (below 50 psi)</li> <li>• 316 SS (12-5000 psi, model CC only)</li> </ul>   |

### OPTIONAL FEATURES (PROVIDED ONLY WHEN SPECIFIED)

- Custom scales/units of measure
  - Thermal compensation (maintains 0.1% accuracy from -25 to +125°F)
  - Slotted link (protects movement during sudden pressure release)
  - Wall mounting brackets
  - Peak load indicator\*
  - Dual scale dial\*
- \*Not available on CMM

| PSI                              |                    |    |    |     |
|----------------------------------|--------------------|----|----|-----|
| STANDARD BOURDON TUBE MATERIAL** | STANDARD RANGE PSI | CC | CM | CMM |
| BERYLLIUM<br>COPPER              | 0-12/3-15          |    |    |     |
|                                  | 0-15               |    |    |     |
|                                  | 0-20               |    |    |     |
|                                  | 0-25               |    |    |     |
|                                  | 0-30               |    |    |     |
|                                  | 0-40               |    |    |     |
|                                  | 0-50               |    |    |     |
| 403<br>STAINLESS<br>STEEL        | 0-60               |    |    |     |
|                                  | 0-75               |    |    |     |
|                                  | 0-100              |    |    |     |
|                                  | 0-150              |    |    |     |
|                                  | 0-200              |    |    |     |
|                                  | 0-250              |    |    |     |
|                                  | 0-300              |    |    |     |
|                                  | 0-400              |    |    |     |
|                                  | 0-500              |    |    |     |
|                                  | 0-600              |    |    |     |
|                                  | 0-750              |    |    |     |
|                                  | 0-1000             |    |    |     |
|                                  | 0-1500             |    |    |     |
|                                  | 0-2000             |    |    |     |
|                                  | 0-2500             |    |    |     |
|                                  | 0-3000             |    |    |     |
|                                  | 0-4000             |    |    |     |
|                                  | 0-5000             |    |    |     |
|                                  | 0-6000             |    |    |     |
|                                  | 0-7500             |    |    |     |
|                                  | 0-10,000           |    |    |     |
|                                  | 0-15,000           |    |    |     |
|                                  | 0-20,000           |    |    |     |
| 0-25,000                         |                    |    |    |     |
| 0-30,000                         |                    |    |    |     |
| 0-40,000                         |                    |    |    |     |
| 0-50,000                         |                    |    |    |     |
| 0-60,000*                        |                    |    |    |     |
| 0-75,000*                        |                    |    |    |     |
| 0-100,000*                       |                    |    |    |     |

\*Available in 8 1/2", 12", 16" Model "CM" only.  
 \*\*For optional Bourdon Tube Materials see pages 4-5 Bulletin HE-1.  
 Shaded areas indicate gauge models available.

| INCHES MERCURY                   |                               |    |    |     |
|----------------------------------|-------------------------------|----|----|-----|
| STANDARD BOURDON TUBE MATERIAL** | STANDARD RANGE INCHES MERCURY | CC | CM | CMM |
| BERYLLIUM<br>COPPER              | 0-30                          |    |    |     |
|                                  | 0-40                          |    |    |     |
|                                  | 0-50                          |    |    |     |
|                                  | 0-60                          |    |    |     |
|                                  | 0-75                          |    |    |     |
|                                  | 0-100                         |    |    |     |
|                                  | 0-125                         |    |    |     |
| 403<br>STAINLESS<br>STEEL        | 0-150                         |    |    |     |
|                                  | 0-200                         |    |    |     |
|                                  | 0-250                         |    |    |     |
|                                  | 0-300                         |    |    |     |
|                                  | 0-400                         |    |    |     |
|                                  | 0-500                         |    |    |     |
|                                  | 0-600                         |    |    |     |
|                                  | 0-750                         |    |    |     |
|                                  | 0-1000                        |    |    |     |
|                                  | VACUUM                        |    |    |     |
| BERYLLIUM<br>COPPER              | -30 to 0                      |    |    |     |
| <b>COMPOUND</b>                  |                               |    |    |     |
| BERYLLIUM<br>COPPER              | <b>VACUUM - PRESSURE</b>      |    |    |     |
|                                  | 15" Hg - 15" Hg               |    |    |     |
|                                  | 30" Hg - 30" Hg               |    |    |     |
| AISI 403<br>STAINLESS STEEL      | 30" Hg - 60" Hg               |    |    |     |
|                                  | 30" Hg - 100" Hg              |    |    |     |
| BERYLLIUM<br>COPPER              | 30" Hg - 150" Hg              |    |    |     |
|                                  | 30" Hg - 15 psi               |    |    |     |
| AISI 403<br>STAINLESS<br>STEEL   | 30" Hg - 30 psi               |    |    |     |
|                                  | 30" Hg - 60 psi               |    |    |     |
|                                  | 30" Hg - 100 psi              |    |    |     |
|                                  | 30" Hg - 150 psi              |    |    |     |
| BERYLLIUM<br>COPPER              | 30" Hg - 300 psi              |    |    |     |
|                                  | <b>INCHES WATER</b>           |    |    |     |
|                                  | 0-350                         |    |    |     |
|                                  | 0-400                         |    |    |     |
|                                  | 0-450                         |    |    |     |
|                                  | 0-500                         |    |    |     |
|                                  | 0-600                         |    |    |     |
| 0-750                            |                               |    |    |     |
| 0-800                            |                               |    |    |     |
| 0-1000                           |                               |    |    |     |

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| MILLIMETERS MERCURY              |                                    |        |       |     |  |
|----------------------------------|------------------------------------|--------|-------|-----|--|
| STANDARD BOURDON TUBE MATERIAL** | STANDARD RANGE MILLIMETERS MERCURY | CC     | CM    | CMM |  |
| BERYLLIUM<br>COPPER              | 0-760                              |        |       |     |  |
|                                  | 0-1000                             |        |       |     |  |
|                                  | 0-1250                             |        |       |     |  |
|                                  | 0-1500                             |        |       |     |  |
|                                  | 0-2000                             |        |       |     |  |
|                                  | 0-2500                             |        |       |     |  |
| AISI 403<br>STAINLESS STEEL      | 0-3000                             |        |       |     |  |
|                                  | 0-4000                             |        |       |     |  |
|                                  | 0-5000                             |        |       |     |  |
| BERYLLIUM<br>COPPER              | <b>bar</b>                         |        |       |     |  |
|                                  | <b>kg/cm<sup>2</sup></b>           |        |       |     |  |
|                                  | <b>kPa</b>                         |        |       |     |  |
|                                  | <b>kp/cm<sup>2</sup></b>           |        |       |     |  |
|                                  | 0.2-1                              | -      | -     | -   |  |
|                                  | 0-1                                | 0-100  | -     | -   |  |
|                                  | 0-1.6                              | 0-160  | -     | -   |  |
|                                  | 0-2                                | 0-200  | -     | -   |  |
|                                  | 0-2.5                              | 0-250  | -     | -   |  |
|                                  | 0-3                                | 0-300  | -     | -   |  |
|                                  | 0-4                                | 0-400  | -     | -   |  |
|                                  | 0-5                                | 0-500  | -     | -   |  |
|                                  | 0-6                                | 0-600  | -     | -   |  |
|                                  | 0-7.5                              | 0-750  | -     | -   |  |
|                                  | 0-10                               | 0-1000 | 0-1   | -   |  |
|                                  | 0-12                               | 0-1200 | 0-1.5 | -   |  |
|                                  | 0-16                               | 0-1600 | 0-1.6 | -   |  |
| 0-20                             | 0-2000                             | 0-2    | -     |     |  |
| 0-25                             | 0-2600                             | 0-2.5  | -     |     |  |
| 0-30                             | 0-3000                             | 0-3    | -     |     |  |
| 0-40                             | 0-4000                             | 0-4    | -     |     |  |
| 0-50                             | 0-5000                             | 0-5    | -     |     |  |
| 0-60                             | 0-6000                             | 0-6    | -     |     |  |
| 0-75                             | 0-7500                             | 0-7.5  | -     |     |  |
| 0-100                            | 0-10,000                           | 0-10   | -     |     |  |
| 0-125                            | -                                  | 0-12.5 | -     |     |  |
| 0-160                            | -                                  | 0-16   | -     |     |  |
| 0-200                            | -                                  | 0-20   | -     |     |  |
| 0-250                            | -                                  | 0-25   | -     |     |  |
| 0-400                            | -                                  | 0-40   | -     |     |  |
| 0-500                            | -                                  | 0-50   | -     |     |  |
| 0-600                            | -                                  | 0-60   | -     |     |  |
| 0-750                            | -                                  | 0-75   | -     |     |  |
| 0-1000                           | -                                  | 0-100  | -     |     |  |
| 0-1250                           | -                                  | 0-125  | -     |     |  |
| 0-1600                           | -                                  | 0-160  | -     |     |  |
| 0-2500                           | -                                  | 0-250  | -     |     |  |
| 0-4000                           | *-                                 | 0-400  | -     |     |  |
| 0-6000                           | *-                                 | 0-600  | -     |     |  |
| 0-7000                           | *-                                 | 0-700  | -     |     |  |
| <b>VACUUM</b>                    |                                    |        |       |     |  |
| BERYLLIUM<br>COPPER              | -1 to 0 -100 to 0                  | -      | -     | -   |  |

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