The Capsuhelic® gage is designed to give fast, accurate indication of differential pressures. The gage may be used as a readout device when measuring flowing fluids, pressure drop across filters, liquid levels in storage tanks and many other applications involving pressure, vacuum or differential pressure.

Using the basic design of Dwyer’s time-proven Magnehelic® gage, the Capsuhelic® gage contains a simple, frictionless movement that permits full scale readings as low as 0.5 in w.c. The pressure being measured is held within a capsule which is an integral part of the gage. This containment of the pressure permits the use of the gage on system pressures of up to 500 psig, even when differentials to be read are less than 0.1 in w.c.

The diaphragm-actuated Capsuhelic® gage requires no filling liquid which might limit its outdoor applications. Zero and range adjustments are made from outside the gage, and there is no need to disassemble the gage in normal service.

Note: May be used with hydrogen where pressures are less than 35 psi. Order with suffix "H." Capsuhelic® gages may be flush mounted in a panel or surface mounted. Hardware is included for either. For flush mounting, a 4-13/32˝ diameter cutout in panel is required. Where high shock or vibration are problems, order optional A-496 Heavy Duty flush mount bracket. Optional A-610 kit provides simple means of attaching gage to 1-1/4˝-2" horizontal or vertical pipe. Installation is same as Magnehelic® gage shown on page 4. All standard models are calibrated for vertical orientation. Gages with ranges above 5 in w.c. can be factory calibrated for horizontal or inclined mounting on special order.

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Top low pressure connection (for Air or Gas) connects to chamber in back of diaphragm. High pressure air or gas port (cut away; not shown) connects with chamber in front of diaphragm through passageways in case.

Precision made case is offered in two materials. Standard is die cast aluminum coated inside for resistance to most oils and similar fluids. Optional forged brass case is recommended when using water or water based liquids. One case size for all pressure ranges — can be either surface or flush mounted.

Silicone rubber diaphragm with integrally molded O-ring is sealed between the case and backplate. Diaphragm motion is restricted to prevent damage due to over-pressure.

Diaphragm support plate of stainless steel minimizes position or attitude sensitivity.

Calibrated range spring is a flat leaf of nickel plated spring steel. Small amplitude of motion assures consistency and long life. It reacts to pressure on diaphragm. Live length factory adjusted for calibration.

Bottom high pressure connection (for Liquids) connects to chamber in front of diaphragm. Low pressure liquid connection (not visible) connects with chamber in back of diaphragm through passageways in case.

Range spring calibration is set by custom camlock. Rate adjust and rate adjust lock are coaxial and are factory set and sealed.

Bezel provides flange for flush mounting in panel.

O-ring seal for cover assures dust tight integrity of case.

Clear plastic front cover is highly resistant to breakage. Provides undistorted viewing of pointer and scale.

Precision scale, screen printed on aluminum, is accurate and easy to read.

Samarium cobalt magnet mounted at end of range spring rotates helix without mechanical linkages.

“Wishbone” assembly provides mounting for helix, helix bearings and pointer shaft.

Thin wall magnetic “window” is well braced and of minimum area for maximum pressure capability.

Jeweled bearings for helix are shock resistant mounted. They provide virtually friction-free rotation for helix. Rotation is damped with high viscosity silicone fluid.

Helix is precision milled from an alloy of high magnetic permeability, mounted in jeweled bearings, and rotates to align with magnetic field of magnet and transmit pressure indication to pointer.

Zero adjustment screw is conveniently located in plastic cover, accessible without removing cover. “O” ring seal provides dust seal.

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### Series 4000 Capsuhelic® Gage

Scales reading directly in flow, heights, etc., are also available.

<table>
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<th>Model</th>
<th>Range, Inches of Water</th>
<th>Price</th>
<th>Model</th>
<th>Range Zero Center, Inches of Water</th>
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*These ranges available for vertical scale position only.

### ACCESSORIES

- A-298, Flat Flush Mounting Bracket .......................... $26.75
- A-309, 3-way Manifold Valve .................................. 327.00
- A-314, Bleed Fitting ........................................... 11.00
- A-379, Mounting Bracket ........................................ 32.75
- A-471, Portable Kit ............................................. 577.00
- A-496, Flush Mount Bracket ..................................... 16.25
- A-610, Pipe Mount Kit ........................................... 25.75

### OPTIONS

- Add Options as Suffix, Example 4001-ASF
- ASF (Adjustable Signal Flag) .................................... add $10.00
- B (Brass Case) .................................................. add 153.00

Scale Overlays - Red, Green, Mirrored or combination. Specify Locations ........ add 20.00 net