Select the Dwyer® Magnehelic® gage for high accuracy – guaranteed within 2% of full-scale – and for the wide choice of 81 models available to suit your needs precisely. Using Dwyer's simple, frictionless Magnehelic® gage movement, it quickly indicates low air or non-corrosive gas pressures — either positive, negative (vacuum) or differential. The design resists shock, vibration and over-pressures. No manometer fluid to evaporate, freeze or cause toxic or leveling problems. It’s inexpensive, too.

The Magnehelic® gage is the industry standard to measure fan and blower pressures, non-corrosive gas pressures — either positive, negative (vacuum) or differential. The vertical position, many ranges above 1˝ may be used at any angle by simply re-zeroing. However, for maximum accuracy, they must be calibrated in the same orientation in which they are used. These characteristics make Magnehelic® gages ideal for both stationary and portable applications. A 4-9/16˝ hole is required for flush panel mounting. Complete mounting and connection fittings, plus instructions, are furnished with each instrument.

**MOUNTING**
A single case size is used for most models of Magnehelic® gages. They can be flush or surface mounted with standard hardware supplied. Although calibrated for vertical position, many ranges above 1˝ may be used at any angle by simply re-zeroing. However, for maximum accuracy, they must be calibrated in the same position in which they are used. These characteristics make Magnehelic® gages ideal for both stationary and portable applications. A 4-9/16˝ hole is required for flush panel mounting. Complete mounting and connection fittings, plus instructions, are furnished with each instrument.

**ACCESSORIES**

**Model A-432 Portable Kit**
Combine carrying case with any Magnehelic® gage of standard range, except high pressure connection. Includes 9 ft (2.7 m) of 3/16˝ ID rubber tubing, standhang bracket and terminal tube with holder.

**Model A-605 Air Filter Gage Accessory Kit**
Adapts any standard Magnehelic® gage for use as an air filter gage. Includes aluminum surface mounting bracket with screws; two 5 ft (1.5 m) lengths of 1/4˝ aluminum tubing two static pressure tips; and two molded plastic vented valves, integral compression fittings on both tips and valv e.

**A-605A Air Filter Gage Accessory Kit**, Air filter with two plastic open/close valves, two 4˝ static tips, plastic tubing and mounting flange

**A-605B Air Filter Gage Accessory Kit**, Air filter with two plastic open/close valves, two plastic static tips, plastic tubing and mounting flange

**A-605C Air Filter Gage Accessory Kit**, Air filter with two plastic open/close valves, two plastic static tips, plastic tubing and mounting flange

**SPECIFICATIONS**

**Service:** Air and non-combustible, compatible gases (natural gas option available). **Note:** May be used with hydrogen. Order a Buna-N diaphragm. Pressures must be less than 35 psi.

**Wetted Materials:** Consult factory.

**Housing:** Die cast aluminum case and bezel, with acrylic cover. Exterior finish is coated gray to withstand 168 hour salt spray corrosion test.

**Accuracy:** ±2% of FS (±3% on -0, -100 Pa, -125 Pa, 10MM and ±4% on -00, -60 Pa, -6MM ranges), throughout range at 70°F (21.1°C).

**Pressure Limits:** -20 in Hg to 15 psig† (-6.67 to 60°C). -20°F (-28°C) with low temperature option.

**Temperature Limits:** 20 to 140°F (-6.7 to 60°C). -20°F (-28°C) with low temperature option.

**Size:** 4˝ (101.6 mm) diameter dial face.

**Mounting Orientation:** Dial gage in vertical position. Consult factory for other position orientations.

**Process Connections:** 1/8˝ female NPT duplicate high and low pressure taps - one pair side and one pair back.

**Weight:** 1 lb 2 oz (510 g), MP & HP 2 lb 2 oz (963 g).

**Standard Accessories:** Two 1/8˝ NPT plugs for duplicate pressure taps, two 1/8˝ pipe thread to rubber tubing adapter, and three flush mounting adapters with screws. (Mounting and snap ring retainer substituted for three adapters in MP & HP gage accessories.)

**Agency Approval:** RoHS. Note: -SP models not RoHS approved.

†For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See Medium and High pressure options.

**Solutions Direct**

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See page 7 (Magnehelic® Gage Mounting Accessories)

Over Protection Note: See page 5 (Series 2000)
Bezel provides flange for flush mounting in panel.
Clear plastic face is highly resistant to breakage. Provides undistorted viewing of pointer and scale.
Precision litho-printed scale is accurate and easy to read.
Calibrated range spring is flat spring steel. Small amplitude of motion assures consistency and long life. It reacts to pressure on diaphragm. Live length adjustable for calibration.
Red tipped pointer of heat treated aluminum tubing is easy to see. It is rigidly mounted on the helix shaft.
Pointer stops of molded rubber prevent pointer over-travel without damage.
“Wishbone” assembly provides mounting for helix, helix bearings and pointer shaft.
Jeweled bearings are shock-resistant mounted; provide virtually friction-free motion for helix. Motion damped with high viscosity silicone fluid.
Helix is precision made from an alloy of high magnetic permeability. Mounted in jeweled bearings, it turns freely, following the magnetic field to move the pointer across the scale.
Zero adjustment screw is conveniently located in the plastic cover, and is accessible without removing cover. O-ring seal provides pressure tightness.

**OVERPRESSURE PROTECTION**
Blowout plug is comprised of a rubber plug on the rear which functions as a relief valve by unseating and venting the gage interior when over pressure reaches approximately 25 psig (1.7 bar). To provide a free path for pressure relief, there are four spacer pads which maintain 0.023” clearance when the gage is surface mounted. Do not obstruct the gap created by these pads.
The blowout plug is not used on models above 180” of water pressure, medium or high pressure models, or on gages which require an elastomer other than silicone for the diaphragm.
The blowout plug should not be used as a system overpressure control. High supply pressures may still cause the gage to fail due to over pressurization, resulting in property damage or serious injury. Good engineering practices should be utilized to prevent your system from exceeding the ratings or any component.

Silicone rubber diaphragm with integrally molded O-ring is supported by front and rear plates. It is locked and sealed in position with a sealing plate and retaining ring. Diaphragm motion is restricted to prevent damage due to overpressures.

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

**ACCESSORIES**
A-321, Safety Relief Valve
A-440, 3-piece magnet kit for mounting Magnehelic® gage directly to magnetic surface
A-135, Rubber gasket for panel mounting
A-401, Plastic Carry Case

**A-310A 3-Way Vent Valves**
In applications where pressure is continuous and the Magnehelic® gage is connected by metal or plastic tubing which cannot be easily removed, we suggest using Dwyer A-310A vent valves to connect gage. Pressure can then be removed to check or re-zero the gage.