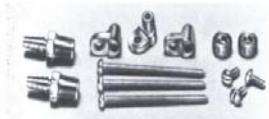




2000 SERIES MAGNEHELIC AIR FILTER GAGES

STANDARD ACCESSORIES FURNISHED



Standard gauge mounting accessories furnished are two 1/8" SPT plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adapters, and flush mounting adapters with screws.



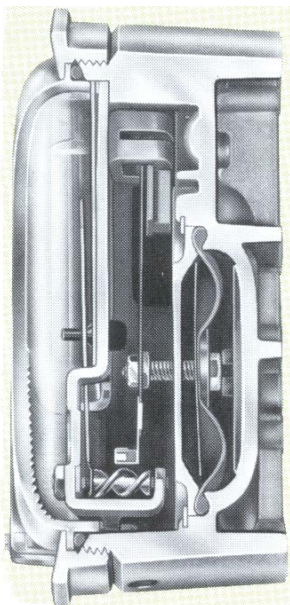
Air Filter accessories furnished are mounting panel with screws, two static pressure tips with integral compression fittings, two five foot lengths of 1/4" aluminum tubing and two molded plastic vent valves (see Fig. 4-1). To order separately, specify No. A-605 Air Filter Kit.

FEATURES

- Easiest reading for personnel accustomed to dial type gauges.
- Lowest cost pointer type gauge.
- Easy zeroing with molded plastic vent valves.
- Sensitivity to 0.01" W.C.
- Withstands vibration.
- Unaffected by over range pressure surges.

OPERATING RANGES AVAILABLE

Model No.	Range	Minor Divisions
2000-0-AF	0-.5" water	0.01"
2001-AF	0-1" water	0.02"
2002-AF	0-2" water	0.05"
2003-AF	0-3" water	0.10"
2004-AF	0-4" water	0.10"



Cutaway view of the MAGNEHELIC gauge showing the actuating diaphragm, the leaf spring with magnet, the helix which turns the indicating pointer in response to the position of the magnet without mechanical linkages.

SPECIFICATIONS

Weight of Gauge: 1 lb. 8 oz.

Finish: Case and aluminum parts Iridite-dipped to withstand 168 hour salt spray test. Exterior finished in baked dark gray hammerloid.

Gauge Connections: 1/8" SPT high and low pressure taps, duplicated, one pair side and one pair back.

Gauge Dimensions:

Diameter of bezel, 4 3/4"

Diameter of body, 4 1/2"

Depth of body to bezel, 1 11/16"

Accuracy: Plus or minus 2% full scale, throughout range at 70° F.

Maximum Total Pressure Rating: Sustained or highly repetitive pressure 15 psi.

Ambient Temperature Range: 30° to 140° F.

OPERATION

The MAGNEHELIC gauge consists of two pressure-tight compartments separated by a molded flexible diaphragm.

The interior of the gauge case serves as the "high" pressure compartment and a sealed chamber behind the diaphragm serves as the "low" pressure compartment.

Differences in pressure between the "high" and "low" sides of the diaphragm cause the diaphragm to assume a balanced position between the two pressures. The front support plate of the diaphragm is linked to a leaf spring which is anchored at one end. The spring provides calibrated resistance to the diaphragm motion. Motion of the spring is transmitted through an exclusive magnetic linkage to the pointer.

The MAGNEHELIC gauge requires no maintenance. The only field adjustment required is occasional zero setting of the pointer which is done by opening the plastic vent valves and turning the adjustment of the gauge.

SUGGESTED SPECIFICATION

for Architects and Engineers

An air filter gauge for measuring the resistance to air flow through the filters shall be installed, one for each bank of filters. The gauge shall be diaphragm actuated, shall have 3 7/8" diameter white dial with black figures and graduations, shall have pointer zero adjustment and shall be furnished complete with two static pressure tips, fittings for 1/4" metal tubing and means for mounting the gauge. Gauge shall be the Catalog No. ___ reading to ___" water, in ___" divisions as manufactured by Dwyer Instruments, Inc.