



# Quality design and construction features

**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.

**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.

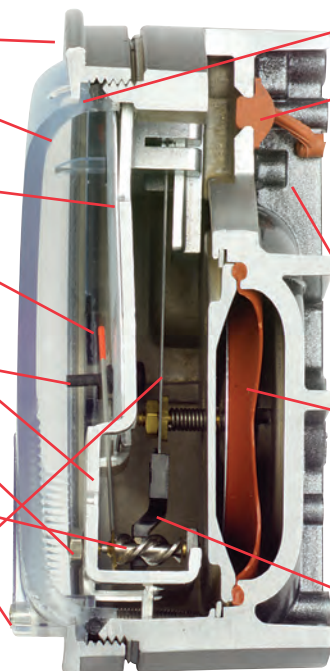
**"Wishbone" assembly** provides mounting for helix, helix bearings and pointer shaft.

**Jeweled bearings** are shock-resistant mounted; provide virtually friction-free motion for helix. Motion damped with high viscosity silicone fluid.

**Zero adjustment screw** is conveniently located in the plastic cover, and is accessible without removing cover. O-ring seal provides pressure tightness.

**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.

**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.



**O-ring seal** for cover assures pressure integrity of case.

## 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 inch clearance when gage is surface mounted. Do not obstruct the gap created by these pads.

The blowout plug is not used on models above 180 inches 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.

**Die cast aluminum case** is precision made and iridite-dipped to withstand 168 hour salt spray corrosion test. Exterior finished in baked dark gray hammerloid. One case size is used for all standard pressure options, and for both surface and flush mounting.

**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.

## Series 2000 Magnehelic® Gage — Models and Ranges

Page VII shows examples of special models built for OEM customers. For special scales furnished in ounces per square inch, inches of mercury, metric units, square root scales for volumetric flow, etc., contact the factory.

Range Inches of Water		Range PSI		Range MM of Water		Range, kPa		Dual Scale Air Velocity Units For use with pitot tube			
Model		Model		Model		Model		Model			
2000-00N†**	0-0.2	2201	0-1	2000-6MM†**	0-6	2000-0.5KPA	0-0.5	2000-00AV†**	Range in W.C./ Velocity F.P.M. 0-25/300-2000		
2000-00†**	0-.25	2202	0-2	2000-10MM†*	0-10	2000-1KPA	0-1				
2000-01†*	0-.50	2203	0-3	2000-15MM	0-15	2000-1.5KPA	0-1.5				
2001	0-1.0	2204	0-4	2000-25MM	0-25	2000-2KPA	0-2				
2002	0-2.0	2205	0-5	2000-30MM	0-30	2000-2.5KPA	0-2.5				
2003	0-3.0	2210*	0-10	2000-50MM	0-50	2000-3KPA	0-3				
2004	0-4.0	2215*	0-15	2000-80MM	0-80	2000-4KPA	0-4				
2005	0-5.0	2220*	0-20	2000-100MM	0-100	2000-5KPA	0-5				
2006	0-6.0	2230**	0-30	2000-125MM	0-125	2000-8KPA	0-8				
2008	0-8.0	Model	Range, CM of Water	2000-150MM	0-150	2000-10KPA	0-10				
2010	0-10			2000-200MM	0-200	2000-15KPA	0-15				
2012	0-12			2000-250MM	0-250	2000-20KPA	0-20				
2015	0-15			2000-300MM	0-300	2000-25KPA	0-25				
2020	0-20			Zero Center Ranges		2000-30KPA	0-30				
2025	0-25	2000-15CM	0-15	Zero Center Ranges		Zero Center Ranges				2000-1KPA	.5-0-.5
2030	0-30	2000-20CM	0-20	2300-6MM†**	3-0-3	2300-2KPA	1-0-1				
2040	0-40	2000-25CM	0-25	2300-10MM†*	5-0-5	2300-2.5KPA	1.25-0-1.25				
2050	0-50	2000-50CM	0-50	2300-20MM†*	10-0-10	2300-3KPA	1.5-0-1.5				
2060	0-60	2000-80CM	0-80	Model	Range, Pa	Dual Scale English/Metric Models					
2080	0-80	2000-100CM	0-100	2000-60NPA†**	10-0-50						
2100	0-100	2000-150CM	0-150	2000-60PA†**	0-60						
2120	0-120	2000-200CM	0-200	2000-100PA†*	0-100						
2150	0-150	2000-250CM	0-250	2000-125PA†*	0-125						
2160	0-160	2000-300CM	0-300	2000-250PA	0-250						
2180*	0-180	Zero Center Ranges		2000-300PA	0-300						
2250*	0-250	2300-4CM	2-0-2	2000-500PA	0-500						
Zero Center Ranges		2300-10CM	5-0-5	2000-750PA	0-750						
		2300-30CM	15-0-15	2000-1000PA	0-1000						
				Zero Center Ranges							
2300-00†**	0.125-0-0.125	†These ranges calibrated for vertical scale position. • Accuracy +/-3% • • Accuracy +/-4% **MP option standard **HP option standard		Model	Range, Pa						
2300-01†*	.25-0-.25			2300-60PA†**	30-0-30						
2301	.5-0-.5			2300-100PA†*	50-0-50						
2302	1-0-1			2300-120PA	60-0-60						
2304	2-0-2			2300-200PA	100-0-100						
2310	5-0-5			2300-250PA	125-0-125						
2320	10-0-10			2300-300PA	150-0-150						
2330	15-0-15			2300-500PA	250-0-250						
				2300-1000PA	500-0-500						
						2060D	0-60				

## ACCESSORIES

- A-299, Surface Mounting Bracket
- A-300, Flat Flush Mounting Bracket
- A-310A, 3-Way Vent Valve
- A-321, Safety Relief Valve
- A-432, Portable Kit
- A-448, 3-piece magnet kit for mounting Magnehelic® gage directly to magnetic surface
- A-605, Air Filter Kit
- A-610, Pipe Mount Kit

## OPTIONS — To order, add suffix: I.E. 2001-ASF

- ASF, Adjustable Signal Flag
- HP, High Pressure Option
- LT, Low Temperatures to -20°F
- MP, Med. Pressure Option
- SP, Setpoint Indicator
- Scale Overlays, Red, Green, Mirrored or Combination, Specify Locations

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