



# MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES

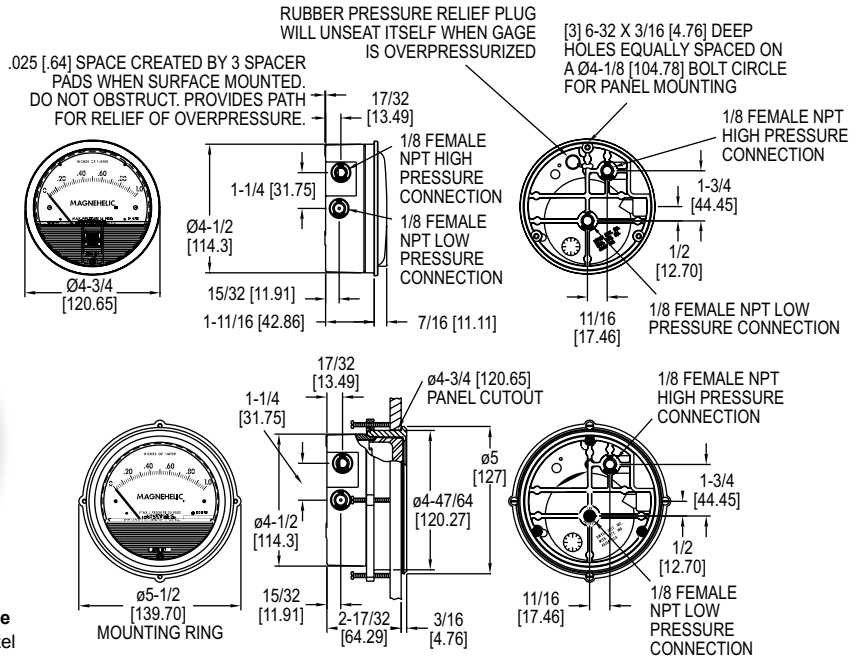
Indicate Positive, Negative or Differential, Accurate within 1%



Standard Magnehelic® Gage



High Accuracy Magnehelic® Gage  
Note: Shown with optional -SS bezel



Select the **SERIES 2000** Magnehelic® Gage for a versatile low differential pressure gage with a wide choice of 81 models and 27 options to choose from. Using Dwyer's simple, frictionless Magnehelic® gage movement, it quickly indicates air or non-corrosive gas pressures--either positive, negative (vacuum) or differential. The design resists shock, vibration, over-pressures and is weatherproof to IP67. Select the -HA High Accuracy Magnehelic® gage option for an accuracy within 1% of full scale. Also included with the -HA option at no extra cost are a mirrored scale overlay and a 6 point calibration certificate.

**FEATURES/BENEFITS**

- Easy to read gage through undistorted plastic face permits viewing from far away
- Patented design provides quick response to pressure changes means no delay in assessing critical situations
- Durable and rugged housing and high-quality components combine to provide long-service life and minimized down-time
- High accuracy option is twice as accurate as the standard Magnehelic® gage.

**APPLICATIONS**

- Filter monitoring
- Air velocity with Dwyer pitot tube
- Blower vacuum monitoring
- Fan pressure indication
- Duct, room or building pressures
- Clean room positive pressure indication

**ACCESSORIES**

Model	Description
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
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 vent valves, integral compression fittings on both tips and valves
A-605B	Air filter gage accessory kit; air filter kit with two plastic open/close valves, two 4" steel static tips, plastic tubing and mounting flange
A-605C	Air filter gage accessory kit; air filter kit 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% (-HA model ±1) of FS (±3% (-HA ±1.5%) on -0, -100PA, -125PA, -10MM and ±4% (-HA ±2%) on -00, -60PA, -6MM ranges), throughout range at 70°F (21.1°C).

**Pressure Limits:** -20 in Hg to 15 psig† (-0.677 to 1.034 bar); MP option: 35 psig (2.41 bar); HP option: 80 psig (5.52 bar).

**Enclosure Rating:** IP67.

**Overpressure:** Relief plug opens at approximately 25 psig (1.72 bar), standard gages only. Ⓛ

**Temperature Limits:** 20 to 140°F\* (-6.67 to 60°C). -20°F (-28°C) with low temperature option.

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

**Mounting Orientation:** Diaphragm 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 Approvals:** Meets the technical requirements of EU Directive 2011/65/EU (RoHS II). **Note:** -SP models not RoHS approved.

**Warranty:** 5 year limited warranty.

**Note:** For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See Medium and High pressure options.  
\*Low temperature models available as special options.



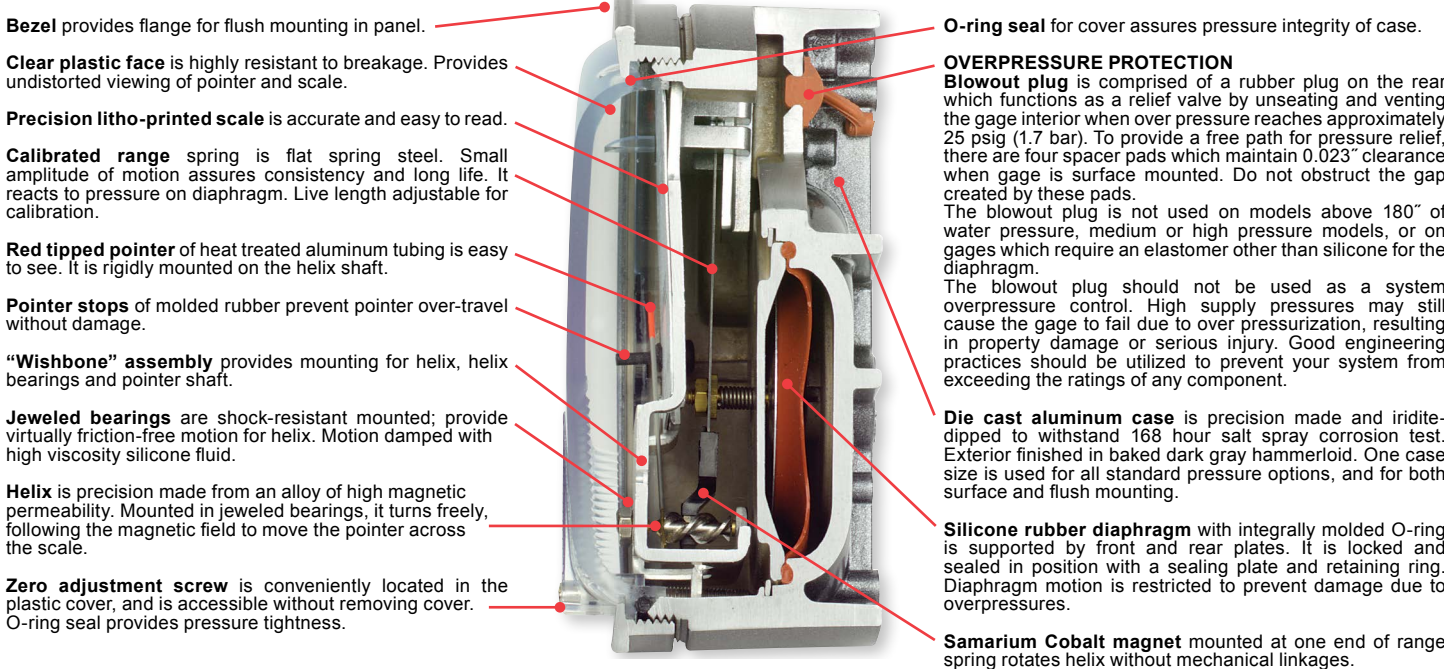
A-432



A-605

# MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES

Indicate Positive, Negative or Differential, Accurate within 2%



**MODEL CHART**

Model	Range, Inches of Water	Model	Range, PSI	Model	Range, MM of Water	Model	Range, kPa	Dual Scale Air Velocity Units For use with pitot tube	
2000-00N†	0.05-0.2	2201	0-1	2000-6MM†	0-6	2000-0.5KPA	0-0.5	Model	Range, in w.c./ Velocity F.P.M.
2000-00†	0-.25	2202	0-2	2000-10MM†	0-10	2000-1KPA	0-1		
2000-0†	0-.50	2203	0-3	2000-15MM	0-15	2000-1.5KPA	0-1.5	2000-00AV†	0-.25/ 300-2000
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	2000-0AV†	0-.50/ 500-2800
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	2001AV	0-1.0/ 500-4000
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	2002AV	0-2.0/ 1000-5600
2008	0-8.0			2000-150MM	0-150	2000-10KPA	0-10		
2010	0-10			2000-200MM	0-200	2000-15KPA	0-15	2005AV	0-5.0/ 2000-8800
2012	0-12			2000-250MM	0-250	2000-20KPA	0-20		
2015	0-15			2000-300MM	0-300	2000-25KPA	0-25	2010AV	0-10/ 2000-12500
2020	0-20					2000-30KPA	0-30		
2025	0-25			<b>Zero Center Ranges</b>					
2030	0-30			2300-6MM†	3-0-3	<b>Zero Center Ranges</b>			
2040	0-40			2300-10MM†	5-0-5	2300-1KPA	5-0-.5		
2050	0-50			2300-20MM†	10-0-10	2300-2KPA	1-0-1		
2060	0-60					2300-2.5KPA	1.25-0-1.25		
2080	0-80					2300-3KPA	1.5-0-1.5		
2100	0-100			<b>Model Range, Pa</b>		<b>Dual Scale English/Metric Models</b>			
2120	0-120			2000-60NPA†	10-0-50	Model	Range, in w.c.	Range, Pa or kPa	
2150	0-150			2000-60PA†	0-60	2000-00D†	0-.25	0-62 Pa	
2160	0-160			2000-100PA†	0-100	2000-0D†	0-0.5	0-125 Pa	
2180*	0-180			2000-125PA†	0-125	2001D	0-1.0	0-250 Pa	
2250*	0-250			2000-250PA	0-250	2002D	0-2.0	0-500 Pa	
<b>Zero Center Ranges</b>				2000-300PA	0-300	2003D	0-3.0	0-750 Pa	
2300-00†	0.125-0-0.125	2300-4CM	2-0-2	2000-500PA	0-500	2004D	0-4.0	0-1.0 kPa	
2300-0†	.25-0-.25	2300-10CM	5-0-5	2000-750PA	0-750	2005D	0-5.0	0-1.25 kPa	
2301	.5-0-.5	2300-30CM	15-0-15	2000-1000PA	0-1000	2006D	0-6.0	0-1.5 kPa	
2302	1-0-1			<b>Zero Center Ranges</b>		2008D	0-8.0	0-2.0 kPa	
2304	2-0-2			Model	Range, Pa	2010D	0-10	0-2.5 kPa	
2310	5-0-5			2300-60PA†	30-0-30	2015D	0-15	0-3.7 kPa	
2320	10-0-10			2300-100PA†	50-0-50	2020D	0-20	0-5 kPa	
2330	15-0-15			2300-120PA	60-0-60	2025D	0-25	0-6.2 kPa	
				2300-200PA	100-0-100	2050D	0-50	0-12.4 kPa	
				2300-250PA	125-0-125	2060D	0-60	0-15 kPa	
				2300-300PA	150-0-150				
				2300-500PA	250-0-250				
				2300-1000PA	500-0-500				

†These ranges calibrated for vertical scale position • Accuracy ±3% \*\* Accuracy ±4% \*MP option standard \*\*HP option standard

**VELOCITY AND VOLUMETRIC FLOW UNITS**  
Scales are available on the Magnehelic® gage that read in velocity units (FPM, m/s) or volumetric flow units (SCFM, m³/s, m³/h). Stocked velocity units with dual range scales in inches w.c. and feet per minute are shown above. For other ranges contact the factory. When ordering volumetric flow scales please specify the maximum flow rate and its corresponding pressure. Example: 0.5 in w.c. = 16,000 CFM.

ACCESSORIES	
Model	Description
A-321	Safety relief valve
A-448	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.

