

Differential Pressure Gauges



The Meriam Bellows D/P line of instruments serves as a compliment to the Meriam Manometers by offering a choice when pressure rating, space, process compatibility and many other specifications are a factor. The Meriam Bellows D/P units are used by many instrument manufacturers as the basic differential pressure sensing devices for indicators, recorders, transmitters or controllers.

Meriam Series 1120 D/P Indicators

The series 1120 gauges are designed to measure differential pressures, particularly for flow and liquid level. They are widely used in industrial process plants, power plants, pollution control facilities and liquid cryogenic storage tank level. Models 1123, 1124 and 1126 have 3", 4-1/2" and 6" dials respectively. A variety of scales for differential pressure, flow and level can be supplied. The unit is compact and has 270° pointer movement for greater resolution.

Meriam Series 1220 Indicating Switches

The Series 1220 Differential Pressure Indicating Switches are used for on-off control or alarm. They also indicate flow, liquid level or other process variables. These units are furnished with one or two SPDT type switches with actuation set points easily adjustable over most of the range of the instrument. The calibrated travel of the pointer is 270 degrees, which gives good differential pressure indication and switch resolution. Dials can be supplied with linear scales for differential pressure, square root scales for flow, or custom scales for level. The Series 1220 Switches are used extensively in power plants, compressor stations, and cryogenic applications.

Meriam Series 1226X Explosion-Proof Switches

Meriam's 1226X Explosion-Proof Indicating Switch is CSA and U.L. listed, meeting N.E.C. requirements for Class I, Division I, Group B or Group D hazardous environments. The explosion-proof housing is made from a strong, lightweight aluminum alloy that is both non-rusting and non-sparking. A large glass window provides full viewing of the 6" indicator. Wall, panel or pipe mounting can be supplied.

Meriam 1126P-2 Portable Indicator

The 1126P-2 is designed for portable applications. Typical examples are periodic measurements of the pressure drop across filters, balancing of flow rates in heating and cooling systems, and checking of back flow prevention devices. Meriam's 1126P-2 consists of an 1126 D/P Indicator with 3-valve manifold and piping, 2 hoses, and quick disconnects. Each instrument system is assembled as a complete package with all the accessories mounted in a rugged, lightweight, case. When used as a flow measuring device, the instrument normally comes with a 0-100% square root scale. With all flow elements designed for the same differential, multiplying the scale reading by the primary element's full flow design value gives readings directly in flow units. Scales in flow units, inches of H₂O, PSI and metric units are also available.

Meriam Bellows D/P Instruments

Quick Selection Chart

MODEL	1123	1124	1126	1224	1226	1226X	1126P-2
DIAL SIZE	3"	4-1/2"	6"	4-1/2"	6"	6"	6"
HOUSING	END				STATIC WORKING		PROCESS
Combinations	HOUSINGS	CENTERPLATE			PRESSURE		CONNECTIONS
	Brass	Brass			500 or 1000 PSI.		1/4" NPT
	Steel	Steel or Brass (500 SWP only)			1500, 3000 or 6000 PSI		1/4" & 1/2" NPT
	316SS	316 SS, Steel or Brass (500 SWP only)			1500, 3000 or 6000 PSI		1/4" & 1/2" NPT
	Monel	316SS			1500, 3000 or 6000 PSI		1/4" & 1/2" NPT
BELLOWS	Beryllium Copper (30" W.C. Minimum--60 PSID Maximum)						
	316 Stainless Steel (50" W.C. Minimum--500 PSID Maximum)						
	Monel (50" W.C. Minimum--60 PSID Maximum)						
MOUNTING	FLUSH PANEL using indicator case for mounting.						
	WALL or 3/4" NPT using universal mounting bracket						
	PIPE SADDLE or WALL using "H" mounting bracket and 2" U-Bolts.						
STANDARD FEATURES	± 0.75% FS for ranges 50" WC and greater; ± 1.5% FS for ranges less than 50" WC.						
	Simple zero, span and linearity adjustment (field calibration).						
	Temperature compensation for varying ambient.						
	NEMA 4, Die-cast aluminum indicator case.						
	Built-in pulsation dampening (field adjustable).						
	270° pointer travel for improved resolution.						
	Break-resistant acrylic viewing window.						
	Over-range protection.						
OPTIONS	Special scales.			CE approved models.			
	Square Root			Valve manifolds and piping.			
	Linear Tank			Shatterproof glass viewing window.			
	Non Linear			CSA approved 1224 and 1226 models.			
	Red set pointer.			Anti-Parallax Mirror dial.			
	Bellows fill fluids.			Special process connection sizes and locations.			
	Shock and vibration modifications.			Stainless steel indicator housings and bezel rings.			
	Personalized I.D. tags.			Special relays for 1220 series models.			
	LOX cleaning.			NACE MR-01-75 modification.			
	Diaphragm seals and capillary tubing.						

Differential Pressure Gauge Ordering Information

General Format:

Model – Range - End Housing - Center Plate – Bellows – Scale - Working Pressure

____-____-____EH-____CP-____B-____-____

Additional Scale Configurations Available Please Consult Factory For Details

Example: Differential Pressure gauge 6" dial, 316 SS wetted parts, 1000 PSI working pressure, 50" DP linear scale

1126 – 50 – 316EH – Brass CP – 316B – Linear –1000