

RANGE — MANOMETER

The range of a given manometer is usually the maximum vertical height of the fluid column in inches. In some

cases, the range is given as the height of an equal pressure column of water and the specific gravity of the manometer fluid is then specified.

MANOMETER RANGE CONVERSIONS TO VARIOUS EQUIVALENT SCALE GRADUATIONS

Manometer Range In Inches	Scale A	Scale B	Scale C	Scale F	Scale G	Scale H	Scale I
	Inches And Tenths Of Manometer Fluid	Inches of Water Using Mercury Calibrated Dry	PSI Pounds And Tenths Using Mercury	Milli-meters Of Manometer Fluid	Inches of Water Using Meriam		
					827 Red Oil 0.827 Sp. Gr.	175 Blue Fluid 1.75 Sp. Gr.	295 No. 3 Fluid 2.95 Sp. Gr.
6	6	81.4	2.9	152	4.9	10.5	17.8
10	10	135.7	4.9	254	8.2	17.5	29.6
12	12	162.8	5.9	305	9.9	21.0	35.6
15	15	203.5	7.3	381	12.4	26.3	44.5
16	16	217.1	7.8	406	13.2	28.0	47.4
20	20	271.4	9.8	508	16.5	35.0	59.3
24	24	325.7	11.7	610	19.8	42.0	71.2
30	30	407.1	14.7	762	24.7	52.5	88.9
35	35	474.9	17.1	889	28.9	61.3	103.8
36	36	488.5	17.6	914	29.7	63.0	106.7
40	40	542.8	19.6	1016	33.0	70.0	118.6
50	50	678.5	24.5	1270	41.2	87.5	148.2
60	60	814.2	29.4	1524	49.5	105.0	177.9
80	80	1085.6	39.1	2032	66.0	140.0	237.2
100	100	1357.0	48.9	2540	82.5	175.0	296.5

STANDARD SCALE GRADUATIONS — MANOMETERS

Most Meriam Manometers are supplied with a standard scale reading inches and tenths of manometer fluid. Other standard scales available for specific models are as follows:

STANDARD SCALES

- Scale A** — Inches and tenths of manometer fluid.
- Scale B** — Inches of water pressure using mercury (dry basis).
- Scale C** — Pounds and tenths using mercury (PSI).
- Scale D** — Pounds and ounces using mercury (PSI).
- Scale E** — Ounces and eighths using water (PSI).
- Scale F** — Centimeters and millimeters of manometer fluid.
- Scale G** — Inches and tenths of water pressure using Meriam 827 Red Oil.
- Scale H** — Inches and tenths of water pressure using Meriam 175 Blue Fluid.
- Scale I** — Inches and fifths of water pressure using Meriam 295 No. 3 Red Fluid.
- Scale J** — Ounces using Mercury (PSI).
- Scale KPa** — Kilopascals using mercury.
- Scale MB** — Centimeters of water using mercury.

- Scale MBar** — Millibars using mercury.
- Scale MC** — Kilograms per square centimeter using mercury.
- Scale MI** — Centimeters of water using Meriam 295 No. 3 fluid.
- Scale N** — Inches and hundredths of water pressure using Meriam 827 Red Oil.
- Scale O** — Inches and fiftieths of water pressure using Meriam 827 Red Oil.
- Scale Q** — Square root inches of water using mercury dry.
- Scale R** — Inches of water using mercury under water.
- Scale S** — Square root inches of water using mercury under water.

Duplex scales consisting of a combination of two of the above A, B or C scales (one on the left side, one on the right side) are available for most well type manometers. For instance, scale A/C would provide on the left side, inches and tenths of manometer fluid; on the right side, pounds and tenths using mercury etc.

Direct reading scales can be furnished in practically any units — English, Metric or, per Calibrations. For Flowmeter applications, scales can be made available in standard cubic feet per minute, gallons per minute etc. Tank gauge scales reading depth of liquid or volume in gallons or pounds are available. Consult Meriam direct for any other special requirements.