Mechanical
Pressure Measurement

STEWARTS

Standard Range Pressure

BOURDON TUBE TYPE PRESSURE GAUGES

PRESSURE	(Bar)	0 to 0.6	0 to 6	0 to 60	0 to 600
		0 to 1	0 to 10	0 to 100	0 to 1000
		0 to 1.6	0 to 16	0 to 160	0 to 1600
		0 to 2.5	0 to 25	0 to 250	
		0 to 4	0 to 40	0 to 400	
VACUUM		-0.6 to 0	-1 to 0		
COMPOUND		-1 to +0.6	-1 to +3	-1 to +9	-1 to +24
		-1 to +1.5	-1 to +5	-1 to +15	

CHEMICAL SEAL TYPE PRESSURE GAUGES

As for Bourdon Tube Type Pressure Gauges. Maximum Range 0 - 600 Bar.

CAPSULE TYPE DRAUGHT RANGE PRESSURE GAUGES

PRESSURE	(M. Bar)	0 to 10	0 to 100
		0 to 16	0 to 160
		0 to 25	0 to 250
		0 to 40	0 to 400
		0 to 60	

Vacuum and Compound Ranges produced from above standard capsules i.e. -5 to + 5 M. Bar from 0 to 10 M. Bar Capsule minimum span 10 M. Bar.

SCHAFFER DIAPHRAGM TYPE PRESSURE GAUGES

PRESSURE	(M. Bar)	0 to 40	(Bar)	0 to 0.6
		0 to 60		0 to 1
		0 to 100		0 to 1.6
		0 to 160		0 to 2.5
		0 to 250		0 to 4
		0 to 400		0 to 6
				0 to 10
				0 to 16
				0 to 25

Vacuum and Compound Ranges produced from above standard ranges. Minimum span 40 M.Bar.

Other ranges and dual scale subject to availability. Consult Sales Office.

BOURDON TUBE GAUGES

The majority of pressure gauges in use have a Bourdon-tube as a measuring element.
(The gauge is named for its inventor, Eugene Bourdon, a French engineer.) The Bourdon tube is a device that senses pressure and converts the pressure to displacement. Since the Bourdon-tube displacement is a function of the pressure applied, it may be mechanically amplified and indicated by a pointer. Thus, the pointer position indirectly indicates pressure.

The Bourdon-tube gauge is available in various tube shapes: curved or C-shaped, helical, and spiral.
The size, shape, and material of the tube depend on the pressure range and the type of gauge desired. Low-pressure Bourdon tubes (pressures up to 2000 psi) are often made of phosphor bronze. High-pressure Bourdon tubes (pressures above 2000 psi) are made of stainless steel or other high-strength materials. High-pressure Bourdon tubes tend to have more circular cross sections than their lower-range counterparts, which tend to have oval cross sections. The Bourdon tube most commonly used is the C-shaped metal tube that is sealed at one end and open at the other .

We manufacture a wide range of instruments to customer's special requirements
We shall be pleased to discuss and advise on your specifications.

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Engineering modifications may take place without prior notice.

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