

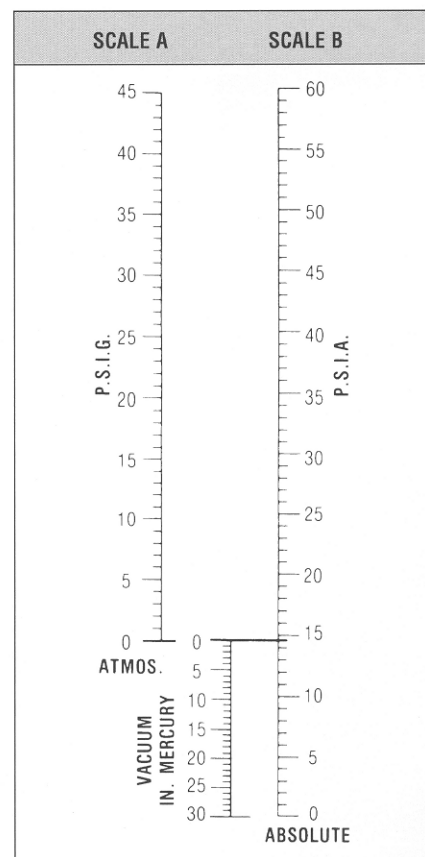
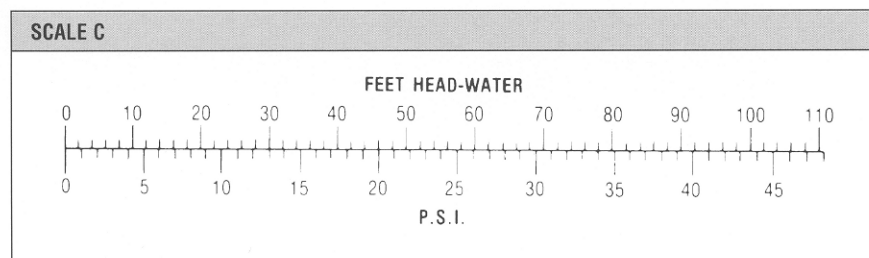
A Word About Vacuum Measurement...

Vacuum is simply pressure below atmospheric pressure, or in a sense a "negative pressure". It is measured in terms of inches of mercury (Abbreviated -- Hg, as in

21" Hg), in terms of absolute pressure (psia) or in terms of inches of water column. Below are some simple conversion figures which at times may be useful

VACUUM CONVERSION FIGURES		
MULTIPLY:	BY:	TO OBTAIN:
Pounds Per Square Inch	27.686	Inches of Water
Pounds Per Square Inch	2.036	Inches of Mercury
Inches of Water	.07355	Inches of Mercury
Inches of Mercury	13.596	Inches of Water
Inches of Water	.03613	Pounds Per Square Inch
Inches of Mercury	.4912	Pounds Per Square Inch

PRESSURE CONVERSION FIGURES							
psi	kg/cm ²	ATM.	COLUMNS OF MERCURY AT 0°C		COLUMNS OF WATER AT 15°C		
			inches	millimeters	inches	feet	meters
1.	0.07031	0.06804	2.036	51.71	27.70	2.309	0.7037
14.22	1.	0.9678	28.96	735.5	394.1	32.84	10.01
14.70	1.033	1.	29.92	760.0	407.1	33.93	10.34
0.4912	0.03453	0.03342	1.	25.40	13.61	1.134	0.3456
0.01934	0.001360	0.001316	0.03937	1.	0.5357	0.04464	0.01361
0.03609	0.002538	0.002456	0.07349	1.367	1.	0.08333	0.0254
0.4331	0.03045	0.02947	0.8819	22.40	12.	1.	0.3048
1.421	0.09901	0.09901	2.893	73.49	39.37	3.281	1.



To convert pounds per square inch gauge (psig) or pressure below atmosphere (vacuum, inches of mercury) to absolute pressure, read horizontally from A to B. Conversely, to convert absolute pressure to psig or inches of mercury, read from B to A.

A-31VR SMALL VACUUM REGULATING VALVE

APPLICATIONS:

Suitable for surgical equipment, lab or manufacturing processes, and other applications requiring accurate and sensitive vacuum regulation.

SIZE: 1/4" only

FEATURES:

Furnished in forged brass, with neoprene seat and diaphragm. Two adjustable ranges of 2" to 16" and 10" to 30" mercury vacuum. All connections are 1/4" IPS or may also be furnished with 1/4" bottom hose connection to vacuum source. Standard valve is plain brass. Closely controls low capacity vacuum systems. The vacuum source is connect-

ed to the bottom of the valve, one side connection is for a gauge, the other side connects to the system in which vacuum is to be controlled. The sensitive top screw automatically adjusts the vacuum source to maintain the desired vacuum in the system.

OPTIONS:

Also available in polished chrome at extra cost.

FOR MORE INFORMATION, WRITE OR CALL FOR BULLETIN VV.

