

PRESSURE GAUGE TECHNICAL REFERENCE

PRESSURE CONVERSION TABLE

psi	atms.	bar	kPa	Kg/cm ²	oz/in ²	in. Hg	mm Hg (Torr)	in. H ₂ O
1	0.068	0.069	6.895	0.07	16	2.036	51.72	27.68
14.7	1	1.013	101.3	1.033	235.1	29.92	760	406.8
14.5	0.967	1	100	1.02	232.1	29.53	750.1	401.9
0.145	0.01	0.01	1	0.01	2.321	0.295	7.501	4.019
14.22	0.968	0.981	98.07	1	227.6	28.96	735.6	393.7
0.063	0.004	0.004	0.431	0.004	1	0.127	3.232	1.73
0.491	0.033	0.034	3.386	0.035	7.858	1	25.4	13.6
0.019	0.001	0.001	0.133	0.001	0.309	0.039	1	0.535
0.036	0.002	0.002	0.249	0.003	0.578	0.074	1.868	1

ASME B40.1 ACCURACY GRADES

Grade	Accuracy	Grade	Accuracy
4A	+/- 0.1% f.s.	A	2-1-2% (+/- 1% f.s. over middle 1/2 of scale)
3A	+/- 0.25% f.s.	B	3-2-3% (+/- 2% f.s. over middle 1/2 of scale)
2A	+/- 0.5% f.s.	C	4-3-4% (+/- 3% f.s. over middle 1/2 of scale)
1A	+/- 1.0% f.s.	D	+/- 5% f.s.

Chemical Compatibility Table

Acetic Acid	S	Dextrine	B	Oil (refined)	B
Acetone	S	Ethyl Acetate	B	Oxygen	B
Acetylene	S	Ethyl Cellulose	S	Paraffin	B
Alcohol	B	Ethylene	B	Phosphoric Acid	S
Alums	S	Ethylene Dibromide	S	Photographic Solutions	S
Aluminum Sulfate	S	Ethylene Glycol	B	Pickling Solutions	S
Ammonia	S	Ferric Nitrate	S	Picric Acid	S
Ammonium Carbonate	S	Ferric Sulfate	S	Picric Acid (dry)	S
Beer	B	Formaldehyde	S	Potassium Cyanide	S
Benzene	B	Freon	B	Potassium Permanganate	S
Benzol	B	Gallic Acid	S	Prestone	B
Benzyl Alcohol	S	Gas (for lighting)	B	Salicylic Acid	B
Bleach Liquors	S	Gasoline	B	Sea Water	M
Bordeaux Mixture	B	Gasoline (refined)	S	Silver Nitrate	S
Butane	S	Glucose	M	Sodium Nitrate	S
Butanol	B	Glycerine	B	Sodium Peroxide	S
Butyric Acid	S	Hydrocyanic Acid	S	Sodium Phosphate	S
Calcium Bisulfite	S	Hydrogen	S	Sodium Sulfate	S
Calcium Chloride	M	Hydrogen Peroxide	S	Sodium Sulfite	S
Calcium Hydroxide	S	Kerosene	B	Sulfur Dioxide (dry)	S
Carbon Dioxide (dry)	S	Lacquers	B	Sulfuric (75%)	S
Carbon Bisulfide	S	Lactic Acid	S	Sulfurous Acid	S
Casein	S	Lysol	S	Toluene	B
Chloroform	S	Magnesium Hydroxide	M	Vegetable Oils	S
Chromic Acid	S	Magnesium Sulfate	S	Vinegar	S
Citric Acid	S	Mercury	S	Water	B
Coal Gas	B	Naphtha	B	Whiskey	S
Copper Sulfate	S	Nickel Acetate	S	Wines	S
Cottonseed Oil	S	Nitric Acid (pure)	S	Zinc Sulfate	S
Creosote (crude)	S	Oil (lubricating)	B		
B = Brass (Copper Alloy)		M = Monel		S = Stainless Steel	

Note: this table is provided as a reference only and is accurate to the best of Reotemp's knowledge. Reotemp assumes no responsibility for the accuracy of this information.