

BOSHART INDUSTRIES

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CHEMICAL AND TEMPERATURE CHARACTERISTICS

MATERIAL	ABBRE	GENERAL CHEMICAL RESISTANCE
Rigid Polyvinyl Chloride	PVC	Resistant against most acids, alkalis and salts of high to low concentration level. However, the material tends to be attacked by some chemicals; such as aromatic hydrocarbon ketones, esters and chlorinated hydro-carbon.
Ethylene Propylene Rubber	EPDM	Provided with an excellent ozone-resistance and chemical-resistance. Comparatively resistant against ketone and ester, but less resistant against aromatic & aliphatic families and gasoline and oil.
Polytetra-fluoroethylene	PTFE	Resistant against ordinary acid and alkali and not dissolved nor changed by ordinary solvent medium. Attacked by melted alkali metal and in high temperature (PTFE) by fluorine and chlorine trifluoride.

TEMPERATURE CORRECTION FACTORS FOR VALVES

As temperature increases working pressure decreases. The optimal working pressure for PVC valves contained in this catalogue is 150 PSI @ 73°F. If temperature increases above 73°F, use the PVC correction factor to determine working pressure.

MULTIPLY MAXIMUM WORKING PRESSURE BY CORRECTION FACTOR

e.g.: @ 110°F WORKING PRESSURE WILL BE 91 PSI (110 X .83 = 91)

°F Temperature	73	90	100	110	120	130	140
PVC Correction Factor	1.00	1.00	1.00	0.83	0.66	0.50	0.33

PVC- NOT RECOMMENDED
OVER 140°F