

Table of corrosion effects of gases and fluids on materials used in the manufacture of valves.
These values are supplied without full guarantee and should only be referred to for general guidance purposes.

▶ 1= Excellent ▶ 2 = Good ▶ 3 = Poor ▶ 4 = Not recommended

	Brass	P.T.F.E.		Brass	P.T.F.E.		Brass	P.T.F.E.
Acetaldehyde	-	1	Benzole or benzene	1	1	Ippoclorato of sodium	3	1
Amyl acetate	2	1	Ammonium bicarbonate	-	1	Calcium hypochlorite	4	1
Ethyl acetate	1	1	Sodium bicarbonate	3	1	Sodium hypochlorite	4	1
Methyl acetate	-	1	Potassium dichromate	4	1	Sodium hyposulphite	3	1
Lead acetate	-	1	Ammonium biphosphate	-	1	Iso-octane	-	1
Sodium acetate	-	1	Potassium biphosphate	4	1	Milk	2	1
Acetylene	3	1	Sodium biphosphate	2	1	Molasses	2	1
Vinegar	4	1	Beer	2	1	Mercury	4	1
Acetone	2	1	Sodium bisulphate	4	1	Methane	1	1
Acetic acid	4	1	Calcium bisulphite	2	1	Sodium metasilicate	-	1
Arsenic acid	-	1	Potassium bisulphite	-	1	Sodium monophosphate	-	1
Benzoic acid	2	1	Sodium bisulphite	2	1	Naphtha	2	1
Boric acid	2	1	Carbon bisulphite	2	1	Naphthalene	-	1
Bromidric acid	4	1	Borax	1	1	Ammonium nitrate	4	1
Acido buomico	4	1	Sodium borate	-	1	Silver nitrate	4	1
Butyric acid	3	1	Bromine (dry)	1	1	Nickel nitrate	-	1
Carbolic acid	2	1	Bromine (wet)	4	1	Copper nitrate	3	1
Hydrocyanic acid	4	1	Potassium bromide	-	1	Sodium nitrate	3	1
Citric acid	3	1	Butadiene	-	1	Nitrobenzene	-	1
Hydrochloric acid (dray)	4	1	Butylene	-	1	Oleum	-	1
Cresylic acid	2	1	Ammonium carbonate	-	1	Fuel oil	1	1
Chromic acid	4	1	Barium carbonate	1	1	Coconut oil	-	1
Hydrofluoric acid	4	1	Calcium carbonate	1	1	Creosote oil	1	1
Fluosilicic acid	4	1	Potassium carbonate	3	1	Linseed oil	2	1
Formic acid	4	1	Sodium carbonate	3	1	Fish oil	-	1
Phosphoric acid	4	1	Tar	2	1	Pine oil	-	1
Phthalic acid	-	1	Potassium cyanide	4	1	Castor oil	3	1
Gallic acid	-	1	Sodium cyanide	4	1	Cottonseed oil	1	1
Hydrofluosilicic acid	2	1	Potassium chlorate	-	1	Soybean oil	-	1
Lactic acid	3	1	Anhydrous chlorine	4	1	Mineral oil	1	1
Maleic acid	-	1	Chlorobenzole	-	1	Ethylene oxide	1	1
Malic acid	-	1	Chloroform	1	1	Magnesium oxide	-	1
Nitric acid 0 to 50%	4	1	Aluminium chloride	4	1	Oxygen	1	1
Nitric acid 0 to 100%	1	1	Ammonium chloride	4	1	Paraffin	-	1
Nitric acid (conc.)	4	1	Barium chloride	4	1	Paraformaldehyde	-	1
Oleic acid	3	1	Calcium chloride	4	1	Pentane	-	1
Oxalic acid	3	1	Ethyl chloride	2	1	Sodium perborate	-	1
Palmitic acid	3	1	Ferric chloride	4	1	Propane	1	1
Picric acid	4	1	Ferrous chloride	4	1	Brine	2	1
Pyrogallic acid	-	1	Magnesium chloride	4	1	Mercury salts	4	1
Salicylic acid	-	1	Methyl chloride	2	1	Soaps	2	1
Sulphuric acid 0 to 10%	3	1	Nickel chloride	3	1	Sodium silicate	2	1
Sulphuric acid 50 to 90%	4	1	Potassium chloride	3	1	Caustic soda	3	1
Sulphuric acid (conc.)	-	1	Copper chlorinire	4	1	Aluminium sulphate	3	1
Sulphurous acid	3	1	Sodium chloride	3	1	Ammonium sulphate	4	1
Stearic acid	3	1	Zinc chloride	4	1	Barium sulphate	1	1
Tannic acid	2	1	Dichloro ethane	-	1	Calcium sulphate	1	1
Tartaric acid	3	1	Phenol	-	1	Magnesium sulphate	3	1
Trichloroacetic acid	3	1	Aluminium fluoride	-	1	Nickel sulphate	3	1
Carbonated water	3	1	Sodium fluoride	-	1	Potassium sulphate	2	1
Sea water	3	1	Formaldehyde	3	1	Copper sulphate	4	1
Distilled water	1	1	Methyl formate	-	1	Sodium sulphate	2	1
Fresh water	2	1	Ammonium phosphate	-	1	Zinc sulphate	4	1
Mineral water	2	1	Sodium phosphate	3	1	Ferric sulphate	4	1
Hydrogen peroxide	3	1	Freon	1	1	Ferrous sulphate	4	1
Amyl alcohol	1	1	Furfural	1	1	Sodium sulphate	2	1
Butyl alcohol	1	1	Natural gas	1	1	Barium sulphide	2	1
ethyl alcohol	1	1	Gelatine	2	1	Carbon sulphide	1	1
Isopropyl alcohol	-	1	Glycerine	1	1	Sodium sulphide	2	1
methyl alcohol	1	1	Ethylene glycol	2	1	Paint solvents	1	1
Alum	2	1	Glucose	1	1	Stirene	-	1
Ammine	-	1	Sodium hydrate	2	1	Fruit juice	4	1
Ammonia (dry)	1	1	Hydrocarbons	1	1	Carbon tetrachloride (wet)	3	1
Ammonia (wet)	4	1	Hydrogen sulphide (dry)	1	1	Toluol or toluene	1	1
Acetic anhydride	3	1	Hydrogen sulphide (wet)	3	1	Trementina - Turpentine	2	1
Chromic anhydride	4	1	Ammonium hydroxide	4	1	Trichloroethylene (dry)	1	1
Sulphuric anhydride (dry)	1	1	Barium hydroxide	2	1	Trichloroethylene (wet)	3	1
Sulphurous anhydride (dry)	1	1	Calcium hydroxide	2	1	Ammonium triphosphate	-	1
Sulphurous anhydride (wet)	4	1	Magnesium hydroxide	2	1	Steam	3	1
Aniline (conc.)	3	1	Potassium hydroxide	3	1	Paint	1	1
Asphalt	1	1	Sodium hydroxide	3	1	Xylene (dry)	-	1
Nitrogen	1	1	Iodoform	-	1	Zolfo - Sulphur	4	1
Petrol	1	1	Potassium iodide	-	1			