



## Valve material Selection Chart

***Note... This chart is meant to be used as a guide only and is based on average conditions. Since many factors should be considered, temperature, pressure, per cent of concentration, etc., much care should be taken before a final selection is made.***

### MATERIAL SELECTION GUIDE

The following chart was compiled as a guide for the selection of materials to be used in valve construction. This chart is meant to be used as a guide only and is based on average conditions.

Since many factors should be considered; i.e., temperature, pressure, per cent of concentration, etc., much care should be taken before a final selection is made. No guarantee of service life is intended

This chart was based on a temperature of 70 F. unless otherwise noted.

The per cent of concentration was based on 100% unless otherwise noted.

When chemicals are mixed it cannot be assumed that the same materials will give the same service conditions as listed on an individual basis.

In some instances the same recommendation is given to two or more materials for the same service. Under these conditions the user may have preference based on past experience.

The symbols used in the chart are as follows:

A - Generally should give satisfactory service with no adverse effects.

B - Generally a slight to moderate effect. Use only when nothing better is available.

C - Generally a moderate to severe effect. Considered as unsuitable.

X - Generally unsuitable under any condition.

Blank space indicates sufficient information lacking.



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**INDEPENDENT**  
Pipe and Supply Corp.

\_\_\_\_\_ METALS \_\_\_\_\_ SEATS

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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
BATTERY ACID						A							
BEER	C			A	A	A	C	B		B	B	A	A
BEET SUGAR LIQUIDS	A	B	C	A	A	A	A	B		B	B	A	A
BENTONITE	A												
BENZENE-BENZOL	A	A	A	A	A	A	X	C	C	X		C	B
BENZALDEHYDE	A	A	A	A	A	A		C	B	C		C	C
BENZOIC ACID		C	X	A		A							
BERYLLIUM SULFATE						A							
BICARBONATE LIQUOR	A												
BLACK LIQUOR	A						A	A				A	
BLACK SULFATE LIQUOR		B		A		A	A	A				A	
BLOOD				A									
BORAX LIQUORS	A	B		A			A	A				A	
BORIC ACID	C	B	C	A	A	A	A	A	A			A	A
BRAKE FLUIDS	A												
BRINE-ALKALINE	A			A	A		B	B				B	
BROMINE SOLUTION	X	X	X	B	B		C	C	C			B	A
BROWN LIQUOR	A												
BUTANE	A	A	A	A	A	A	A	A	B	C		A	
BUTYLENE	A	A	A	A	A	A	B						
BUTADIENE	B		X	A	B	A	C	C				C	B
BUTYRIC ACID				A	B	A	C	C					
BUTYL ACETATE	A	A	A	A	A	A		C	X			C	C
BUTYL AMINE	A			A									
BUTYL CHLORIDE					A								
BUTYL ETHER(dry)	A				A								
CADMIUM PLATING BATH	A												
CALCIUM BISULFITE	X	C	C	B	B	B	A	A		A		A	A
CALCIUM CHLORIDE	C	B	A	B	A	B	A	A		A		A	
CALCIUM CHLORATE				A		A							
CALCIUM HYDROXIDE	B	B	X	A	A	A	A	A		A		A	
CALCIUM PHOSPHATE	A												
CALCIUM SILICATE	A												
CACIUM SULFATE	A	B	A	A		A	A	A		A		A	
CAMPHOR													
CANE SUGAR LIQUORS	B	A	A	A	A	A	A	B				B	B
CARBITOL	A			A									
CARBOLIC ACID(phenol)		C	C	A		A							
CARBON BISULFIDE	B	B	B	A	A	A	C	C				C	A
CARBON DIOXIDE	A	A	A	A	A	A	B	A				A	
CARBON DISULFIDE				A		A	C	C		C		C	
CARBON MONOXIDE	A							A				A	
CARBON TETRACHLORIDE	B	C	B	A	A	A	A	C	C	X	X	C	A
CARBONIC ACID		C	C	A		A							
CARBONATED BEVERAGES				A			A	A		A		A	
CASEIN	A			A	A								
CASTOR OIL	A			A			A	A		B		A	
CATSUP				A	A		A						



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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
CAUSTIC SOLUTIONS		B	X	A		A							
CELLULOSE ACETATE	A			A	A								
CHLORACETIC ACID	C		B	C	B	A	C	A				A	C
CHLORAMINE													
CHLORINATED SOLVENTS	A			A									
CHLORINE(dry)	B	C	C	B	B	A	C	B	X			B	A
CHLORINE(wet)	X	X	X	X	X	X	C	C	X			B	
CHLOROBENZENE	A	B	A	A	A	A	X	X	X			X	A
CHLOROFORM(dry)	A	B	A	A		A	C	C	C	X		C	A
CHLOROPHYLL	A			A	A								
CHLOROFULFONIC ACID(dry)		B	B	B	B	A		C	X	X		C	X
CHLOROSULFONIC ACID(wet)	X	X	X	X	X	X		C	X	X		C	X
CHROME ALUM				A		A							
CHROME LIQUOR						A							
CHROMIC ACID 10%	C	X	X	A	B	A	C	C		C		A	
CHROMIC ACID 50%	C	X	X	C	C	B	C	C		C		A	
CHROMIUM SULFATE				A		A							
CITRIC ACID	C	X	C	A	A	A	A	A		B		A	
COAL TAR	A			A	A	A	B	C	X	C		C	
COCONUT OIL	A						A	B		B		B	
COFFEE				A	A	A	A	A		A		A	
COKE OVEN GAS	A	B	C	A		A						A	
CONDENSATE	A												
COOKING OIL	B		B	A	A		A	B				B	A
COPPER ACETATE		X	X	A		A							
COPPER CHLORIDE	C		C	B	B		A	A		A		A	
COPPER CYANIDE	A												
COPPER SULFATE	C	C	X	A	A	A	A	A				A	
CORE OIL	A												
CORN KERNELS				A	A								
CORN OIL				A	A		A	A		B		A	
CORN SYRUP				A	A		A	A		B		A	
CREOSOTE	A	B	B	A	A	A	B	C	X		C	C	A
CRESYLIC ACID 50%				A	A	A	C	C		C			
CYANIDE SOLUTION	A												
CYANOGEN GAS				A									
CYCLO HEXANE	A	A	A	A	A	A	A	C	C	X		C	A
DEIONIZED WATER				A									
DETERGENTS	A			A									
DEVELOPER-PHOTO				A	A								
DEXTRIN				A	A								
DIACETONE ALCOHOL	A	A	A	A	A	A	C	B			B	B	
DICHLORD ETHYL ETHER					A	A							
DIESTER LUBE'S	A			A									
DIETHYLAMINE	A	A	A	A	A	A	A						
DIETHYL SULFATE					A	A							
DIETHYLENE GLYCOL	A						A	A		B		A	
DIMETHYL FORMAMIDE					A	A							



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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
DIOXANE(dry)	A						A	B		B		B	
DIPENTENE-PINENE				A		A	A			B			
DOWTHERMS	A	A	A	A	A	A	X	B				B	A
DYES(general)	A	A	A	A	A	A							
ENZYME SOLUTION				A		A							
ETHERS(butyl)	A	A	A	A	A	A	C	C		C		C	C
ETHYL ACETATE	B	B	B	A	A	A	C	C	C	C		C	C
ETHYL ACRYLATE				A									
ETHYL ALCOHOL		B	A	A		A	A	A	A	A	B	A	A
ETHYL BROMIDE				A	A	A							
ETHYL CHLORIDE(dry)	A	A	A	A	A	A	B	B	X	B		B	
ETHYL CHLORIDE(wet)						A	C	C		C		C	
ETHYL SILICATE	A			A			A						
ETHYLENE				A	A		A			B			
ETHYLENE GLYCOL	A	A	A	A	A	A	A	A	A	A		A	A
ETHYLENE OXIDE				A		A	X	X	X			X	C
FATTY ACIDS	C	B	B	A	A	A	B	B				B	A
FERRIC CHLORIDE SOL.		X	X	C		C	B	B		B		B	
FERRIC NITRATE				A		A		A		A		A	
FERRIC SULFATE (DIL)	C		C	B	C	A	A	A		A		B	A
FERROUS CHLORIDE		X	X	B			A	A		A		A	
FERROUS SULFATE 10%		C		A	A	A	A	A		A		A	
FERROUS SULFATE 100%		X	X	A	A	A	A	A		A		A	
FERTILIZER SOLUTION	A			A	A								
FISH OIL	A			A	A		A						
FLUE GAS	A			A		A							
FLUORIDE SALTS				A									
FLUORINE (dry)	X	X	X	X	B	B							
FORMALDEHYDE (cold)	B	C	A	A	A	A	A	A		A		A	A
FORMIC ACID	C		B	A	B	A	C	A		B		A	C
FREON (most)	B	B	B	A	A	A	A	A	X			A	A
FRUIT JUICES	C		B	A	A	A	A	A		A		A	A
FURFURAL	A		B	A	A	A	C	B		C		B	C
FURNACE GAS	A												
GALLIC ACID 5%				A		A	A	A		A		A	
GAS-NATURAL	A		A	A	A	A	A	A				A	A
GASOLINE-MOTOR	A	A	A	A	A	A	A	B	C	X	X	B	A
GELATINE		B	C	A	A	A	A	A				A	
GLUCOSE	B	A	A	A	A	A	A	A		A		A	A
GLUE (most)	A	A	A	A	A	A	A	A		A		A	
GLYCERINE	B			A	A	A	A	A		A		A	A
GLYCEROL	B	B	B	A	A	A	A	A		A		A	A
GLYCOLIC ACID				A	A	A							
GLYOXAL				A									
GLYCOL AMINE				A	A	A							
GRAPHITE	A			A	A								
GREASE-EDIBLE				A			A						
GREEN LIQUOR				A								B	A



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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
HELIUM GAS	A												
HEPTANE-HEXANE	A	A	A	A	A	A	A	A		C		A	A
HEACHLORO BENZENE					A	A							
HEXANOL-TERTIARY	A	A	A	A	A	A				C			
HYDRAZINE													
HYDROBROMIC ACID	X	X	X	X	X	X	A	A				A	
HYDROCHLORIC ACID (cold)	X	X	X	X	X	X	X	A		B	B	A	A
HYDROCYANIC ACID	C		X	A	B	A	B	A				A	
HYDROFLUORIC ACID	X	C	X	X	B	C	B	A		B		A	
HYDROFLUOSILICIC ACID		X	A	C	B	B	A	A				A	
HYDROGEN GAS	A	B	B	A	A	A	A	A				A	
HYDROGEN PEROXIDE	C	X	X	A	B	B	B	B			B	A	A
HYDROGEN SULFIDE (dry)	A	X	X	A	A	A	B	A				A	
HYDROGEN SULFIDE (wet)	C	X	X	B	B	B	C	B		B		B	
ILLUMINATING GAS	A	A	A	A	A	A							
IODINE SOLUTION	X	X	X	B	B		B	B					A
IRON OXIDE	A												
ISO-OCTANE	A	A	A	A	A	A	A	A				A	
ISOPROPYL ALCOHOL	A	A	A	A	A	A	B	A		B		A	A
ISOPROPYL ETHER	A	A	A	A	A	A	A	C	X			B	
JET FUELS	A		A	A	A		A	C	X	X		C	A
JUICES - FRUIT				A									
KELP SLURRY	A												
KEROSENE	A	A	A	A	A	A	A	B	X	X		B	A
LACQUERS-SOLVENTS	A	A	A	A	A	A	C	C		C		C	C
LACTIC ACID (diluted)	C	X	X	A	B	A	B	A		B		A	
LACTIC ACID 100%	C	X	X	B	B	A	B	A		B		A	
LACTOSE				A	A								
LEAD SULFATE	A												
LECITHIN				A		A							
LIME-SULPHUR MIX				A	A		A	A				A	
LINOLEIC ACID				A		A							
LINSEED OIL	A		B	B	B		A	A		A		A	A
LITHIUM CHLORIDE					A								
LUDOX				A									
MAGNESIUM BISULFATE			A		A								
MAGNESIUM BISULFIDE													
MAGNESIUM CARBONATE	A												
MAGNESIUM CHLORIDE	C	C	C	B	A	A	A	A		A		A	
MAGNESIUM SULFATE (liq)	A	A	A	A	A	A				A			
MALEIC ACID				A	A	A	A	A		A		A	
MALEIC ANHYDRIDE				A		A	A			A			
MALT SLURRY				A	A		A	A				A	
MAGANESE SULFATE						A							
MANNITOL SOLUTION				A									
MENTHOL				A									
MERCURIC CHLORIDE	X	X	X	B	B	B	B	A				A	
MERCURIC CYANIDE				A		A							



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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
MERCUPIC NITRATE				A									
MERCURY	A	A	X	A	B	A	A	A		A		A	
MENTHANE (use butane)													
METHYL ACETATE	A	B		A		A	C	C				C	
METHYL ACETONE	A	A	A	A	A	A							
METHYL ALCOHOL	A	A	A	A	A	A	A	A		B		A	B
METHYL BROMIDE				A									
MENTHYLAMINE		A	X	A		A							
METHYL CELLOSOLVE	A	A	A	A	A	A	C	B		B		B	
METHYL CHLORIDE (wet)	B	B	B	A	A	A	C	C			X	C	
METHYL ETHYL KETONE	B	B	B	A	A	A	X	X	A	B		X	C
METHYL FORMATE			A										
METHYLENE CHLORIDE	B	B	A	A	B	A	C	C	B			C	B
MILK	C		B	A	A	A	A	A		A		A	A
MINERAL OIL	A		A	A	A		A	A	X	A		A	
MIXED ACIDS (cold)	C	X	X	A	B	A	X	X					A
MOLASSES	A	B	B	A		A	A	A		A		A	A
MONOCHLOR ACETIC ACID					A			B				B	
MORPHOLINE	A			A									
NAPHTHA	A	A	A	A	A	A	A	C	C	C		C	A
NAPHTHALENE	A	A	A	A	A	A	X	C	X	X		C	
NATURAL GAS	A	A	C	A	A	A	A	A				A	
NICKEL AMMONIA SULFATE				A									
NICKEL CHLORIDE				C		B	A	A				A	
NICKEL SULFATE				A	B	A	A	A		A		A	
NICOTINIC ACID			B	A	A								
NITRIC ACID 10%	C	X	X	B	B	A	C	B	C	B	B	A	A
NITRIC ACID 80%	X	X	X	B	B	A	X	C	C	X	X	B	A
NITRIC ACID ANHYDROUS		X	X	A		A							
NITROBENZENE	A			A	A	A	C	C	A	B		C	B
NITROGEN GAS	A												
NITROUS GASES		B	X	A	B	A							
OILS, ANIMAL	A	A	A	A	A	A	A	B				B	
OIL, COTTONSEED				A	A	A	A	A	B	C		A	A
OIL, FISH	A		C	A	A	A	A	B				B	
OIL, FUEL	A	A	B	A	A	A	A		X	C			
OIL, LUBE	A	A	A	A	A	A	A		X	C			
OIL, MINERAL	A	A	A	A	A	A	A	A	X	X		A	
OIL, PETROLEUM		A	B	A	A	A	A			C			
OLEIC ACID	C	B	X	A	A	A	A	B		C		B	B
OLEUM SPIRITS	C	X	X	A	B	A	C	C		C		C	A
OXALIC ACIDS (cold)	C	X	X	A	B	A	C	A		B		B	A
OXYGEN	A	B	A	A	A	A	B	B		B		B	
OZONE (dry)		A		A	A	A							
OZONE (wet)				A	A								
PAINTS-SOLVENTS	A	A	A	A	A	A							
PALMITIC ACID	C		B	A	A	A	B	B				B	A
PAPER PULP	A			A	A								



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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
PARAFFIN OILS	A				A		A	A				A	
PERCHLORETHYLENE	A	A	B	A	A	A	A	X				C	A
PERMANGANIC ACID				A									
PEROXIDE BLEACH				A	A								
PHENOL	C		B	A	B	A	X	B		B		B	A
PHENOLIC GLUE	A												
PHOSPHORIC ACID 10%		X	X	A	A	A	A			B		A	
PHOSPHORIC ACID 50%	C	X	X	B	C		A	A				A	A
PHOSPHORIC ACID 100%		X	X	B	A		X	A	A	B		A	
PHOSPHORIC MOLTEN				A		A							
PHOTOGRAPHIC SOLUTIONS				A	B								
PICRIC ACID SOLUTION	C		B	A	A	A	B	A		B		A	
PINE OIL	A			A	A	A	A	B					A
PLASMA				A									
POLYSULFIDE LIQUOR	A			A									
POLYVINYL ACETATE													
POLYVINYL CHLORIDE				A									
POTASSIUM ACETATE				A			A						
POTASSIUM BROMIDE				A			A	A		A		A	
POTASSIUM CARBONATE	A			A	A		A	A		A		A	
POTASSIUM CHLORIDE SOL.	A		A	B	A	A	A	A		A		A	
POTASSIUM CHROMATE				A			A	A				A	
POTASSIUM CYANIDE SOL.	A	A	X	A	A	A	A	A				A	
POTASSIUM DICHROMATE	A		C	A	A	A	A	A		A		A	
POTASSIUM HYDROXIDE	A		X	A	A	A	A	A		A		A	
POTASSIUM NITRATE	A	A	B	A	A		A						
POTASSIUM PHOSPHATE				B			A	A		A			
POTASSIUM SULFATE	A	A	A	A	A	A	A	A				A	
POTASSIUM SULFIDE	A	A		A		A							
POTASSIUM SULFITE				A		A							
PROPANE GAS	A	A	A	A	A	A	A	A				A	A
PROPYL ALCOHOL	A	A	A	A	A	A	A	A				A	
PROPYL BROMIDE						A							
PROPYLENE GLYCOL				A									
PYROLE				A	A	A							
RESINS	A	C	A	A	A	A	C	C					
ROAD OILS	A	A	A	A	A	A	B	C					A
SALAD OILS				A		A							
SALICYCLIC ACID				A	A		A	A				A	
SALT. BRINE	B		A	A	A		A	A				A	A
SEA WATER	C	C	A	B	A	A	A	A		A		A	A
SEWAGE	A			A	A								
SHELLAC	A	A	A	A	A	A							
SILICON FLUIDS	A				A								
SILVER CYANIDE													
SILVER IODINE				A	A								
SODIUM ACETATE	A	B	A	A		A							
SODIUM ALUMINATE	A	A		A	A	A	A	A		A		A	



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	IRON	CAST STEEL	BRONZE	316 S.S.	MONEL	ALLOY 20	BUNA_N	YEOPRENE	EPT	BUTYL	SILICON	HYPALON	VITON
SODIUM ARSENATE	A												
SODIUM BICROMATE				A		A							
SODIUM BISULFATE				A		A	A	A		A		A	
SODIUM CARBONATE SOL.	A	B	B	A	A	A	A	B		B	B	B	A
SODIUM CHLORATE						B							
SODIUM CHLORIDE	A	B	A	A	A	A	A	B		B	B	B	A
SODIUM CYANIDE	A	A	X	A	A	A	A	A				A	
SODIUM FLUORIDE	A			A							A		
SODIUM HYDROSULFIDE				A	A								
SODIUM HYDROXIDE 20%	A	B	A	A	A	A	A	A	A	A	B	A	A
SODIUM HYDROXIDE 50%	A	B	A	A	A	A	A	A		A	B	A	A
SODIUM HYDROXIDE 70%	A		A	A	A	A	A	B		A		A	
SODIUM HYPOCHLORITE 20%	X	X	X	B		C			A			A	A
SODIUM METAPHOSPHATE			C	A	A	A	A	A	A			A	
SODIUM METASILICATE	A			A	A		A	A				A	
SODIUM NITRATE	A	A	B	A	A	A	A	A		A		A	
SODIUM PERBORATE			C	A		A	A	A				A	
SODIUM PEROXIDE	C		C	A	A	A	B	A				A	
SODIUM PHOSPHATE	A			A	A	A	A						
SODIUM SILICATE	A		C	A	A		A	A					
SODIUM SULFATE		A	A	A	A	A	A						
SODIUM SULFIDE	A	A	X	A	A	A	A	A				A	A
SODIUM SUFITE				A	A	A							
SODIUM THIOSULFATE			X	A	A	A	A	A				A	
SOYBEAN OIL	A		B	A	A		A	A				A	A
STARCH	A			A	A		A	A				A	
STEAM_LOW PRESSURE	A		A	A	A		C	C	A		A	B	B
STEARIC ACID	C	C	C	A	A	A	A	B		C		B	
STYRENE (dry)	A	A	A	A	A	A	X						
SULFAMIC ACID						A							
SULFITE LIQUOR				A									
SULFONIC ACIDS						A							
SULPHUR	C	C	X	B	A	A	B	A	A			A	A
SULPHUR DIOXIDE (dry)	A	A	A	A	A	A	A	A			B	A	
SULPHUR TRIOXIDE (dry)	A	A	A	A	A	A		C				C	
SULFURIC ACID 10%	X	X	X	A		A	A	A		A	B	A	A
SULFURIC ACID 75%				B	B	B	X	B				A	
SULFURIC ACID 100%	B			A	A	A	X	C	C	X	X	A	A
SULFUROUS ACID	C		X	B	C	A	C	X				A	A
TALL OIL	A			A	A	A							
TANNIC ACID	B			A	A	A	B	A		A		A	A
TAR	A	A	A	A	A	A				X	X		
TARTARIC ACID		B	B	A	A	A	A	A		B		A	
TOLUOUL-TOLUENE	A	A	A	A	A	A	X	C	C	C		C	B
TRIBUTYL PHOSPHATE				A		A	C	C	X			C	C
TRICHLOROETHYLENE				A	A	A		C				C	A
TUNG OIL	A		A	A	B		A	A				A	A
TURPENTINE	A	C	B	A	A		A	C	C	B		C	A



TO BE USED ONLY AS A GUIDE NOT A GUARANTEE OF SERVICE.

	METALS	SEATS
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**Valve material selection chart:**

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*Since many factors should be considered, temperature, pressure, percent of concentration, etc., much care should be taken before a final selection is made.*

[illegible]