BASIC CHEMICAL RESISTANCE TABLE

NEXT PAGE ▶

FLUID	COUPLER MATERIAL NY-GLASS	POLY-GLASS	PVC	PVDF
Acetic Acid		S		
Acetic Anhydride		S		
Acetone	S	S	U	U
Acetylene-Dry			S	
Air	S	S		
Agricultural Lime	S	S		
Alcohol-Amyl	S	S	S	
Alcohol-Butyl	S	S		
Alcohol-Ethyl	S	S		
Alcohol-Isopropyl	S	S		
Alcohol-Methyl	S	S		
Aluminum Chloride	U	S	S	S
Aluminum Flouroid, 20%	U	S	S	S
Aluminum Nitrate	U	S	S	S
Aluminum Potassium Sulfate	U	S		S
Aluminum Sulfate	U	S		
Ammonia, Anhydrous				
Ammonia, Solutions	S	S		U
Ammonium Chloride-Dry		S	S	
Ammonium Hydroxide	P	S	S	
Ammonium Nitrate		S	S	S
Ammonium Phosphate		S	S	
Mono-basic		S		
Di-Basic or Tri-Basic		S		
Ammonium Sulfate		S	S	S
Aniline		S	U	
Arsenic Acid		S	S	
Asphalt				
Barium Chloride	U	S	S	S
Barium Hydroxide		S	S	U
Barium Sulfide		S	S	
Basic Stag		S		
Beer	S	S	S	
Benzene/Benzol	S			
Benzine	S			
Black Liquor (Paper Ind)		S	S	
Bleach (12.5% Chlorine)	U	S	S	
Borax		S	S	
Boric Acid	P	S	S	S
Brine	S	S	S	
Bromic Acid		S	S	
Burnt Lime	S	S		
Butane	S	S	S	S
Butadiene			S	S

FLUID	COUPLER MATERIAL NY-GLASS	POLY-GLASS	PVC	PVDF
Butyl Acetate-Dry			S	
Butyl Stearate			S	
Butylene			S	
Cadmium Cyanide		S	S	
Calcium Acetate		S		
Calcium Bisulfite		S	S	
Calcium Chloride	U	S	S	S
Calcium Hydroxide		S	S	
Calcium Hypochlorite		S	S	
Calcium Nitrate, 40%		S	S	S
Carbolic Acid (Phenol)	U			
Carbon Dioxide-Dry	S	S	S	S
Carbon Disulfide			U	
Carbon Tetrachloride	S		U	S
Carbonated Beverages	S	S		
Carbonic Acid	S	S	S	
Castor Oil	S	S	S	
Caustic Potash	S	S	S	
Caustic Soda	S	S		
Cellosolves				
Chlorine-Dry		S	U	S
Chlorobromomethane				
Chloroform-Dry	S	S		S
Chlorex	S			
Chromic Acid, 50%	U	S	U	
Citric Acid	S	S	S	S
Cobalized Super				
Compound		S		
Copper Chloride-Dry		S	S	S
Copper Sulfate		S	S	S
Copperized Super				
Compound		S		
Corn Oil	S	S		
Cottonseed Oil	S	S	S	
Creosote				
Cresylic Acid			S	
Cyclohexane	S		U	S
DDT			U	
Detergents	S	S	S	
Developer Solution		S		
Dextrose	S	S	S	

BASIC CHEMICAL RESISTANCE TABLE CONT.

NEXT PAGE

FLUID	COUPLER MATERIAL NY-GLASS	POLY-GLASS	PVC	PVDF
Diesel Fuels	S	S	S	S
Diethyl Sebacate			S	
Disodium Phosphate		S	S	
Dowtherm		S		
Ethanolamine		S		
Ether	S		U	S
Ethyl Acetate	S	S	U	
Ethyl Chloride-Dry			U	
Ethylene				
Ethylene Dichloride-Dry		S	U	
Ethylene Glycol	S	S	S	
Fatty Acids	S	S	S	
Ferric Chloride	P	S	S	
Ferric Hydroxide		S	S	
Ferric Nitrate		S	S	
Ferric Sulfate	P	S	S	
Fluoboric Acid		S	S	
Formaldehyde, 405		S	S	
Formalin		S		
Formic Acid	U	S	S	S
Freon	S	S		
Fruit Juice: Grapefruit	S	S	S	
Lemon	S	S		
Pineapple	S	S		
Furfural		S	U	
Gas-Coke Oven	S	S	U	
Gasoline-Refined	S	U	U	S
Gasoline-Sour	S	U	U	
Gelatin	S	S		
Glucose	S	S	S	S
Glue	S	S		
Glycerine	S	S	S	S
Glycol	S	S	S	
Green Liquor (Paper Ind)		S	S	
Hexane	S		S	S
Hydrobromic Acid		S		
Hydrobromic Acid, 40%		S		
Hydrobromic Acid, 100%		S		
Hydrochloric Acid	U	S		
Hydrocyanic Acid		S	S	
Hydrofluoric Acid	U			

FLUID	COUPLER MATERIAL NY-GLASS	POLY-GLASS	PVC	PVDF
Hydrogen Chloride		S		
Gas-dry		S		S
Hydrogen Gas	S	S		S
Hydrogen Peroxide	U	S		S
Hydrogen Sulfide	U	S		
Hypochlorous Acid, 20%	U	S		
Iodide, Peroxide		S		
Isobutyl Acetate		S		
Isopropyl Acid	S	S		
Jet Fuel	S			
Kerosene	S	S		
Kraft Liquor (Paper Ind)		S	S	
Lacquers	S			
Lactic Acid, 20%	S	S	S	S
Lactic Acid, 70%		S		S
Lard	S	S	S	S
Lead: Chloride, Sulphate		S	S	
Lime Slurry	S	S		
Lime Sulphur		S		
Linoleic Acid		S	S	
Lineseed Oil	S	S	S	S
L.P.G.	S			
Magnesium Carbonate	S	S	S	S
Magnesium Chloride	P	S	S	S
Magnesium Hydroxide	S	S	S	S
Magnesium Nitrate	P	S	S	S
Magnesium Sulfate	P	S	S	S
Meat and Bone Meal	S	S		
Mercuric Chloride		S	S	S
Mercury		S	S	S
Methane	S	S		
Methanol	S	S		
Methyl Amyl Acetate		S		
Methylene Chloride	S		U	
Methyl Benzene	S	U		
Methyul Ethyl Ketone	S	S		
Milk	S	S	S	S
Mineral Oil	S	S	S	S
Molasses	S	S	S	

FLUID	COUPLER MATERIAL NY-GLASS	POLY-GLASS	PVC	PVDF
Muriate of Potash	S	S		
Muriatic Acid	U	S	S	
Mustard	S	S		S
Naptha	S		S	S
Nathalene			U	
Napthenic Acid		U		
Natural Gas	S	S	S	
Nickel Chloride		S	S	S
Nickel Sulfate		S		S
Nitric Acid	U	S		S
Nitrobenzene	S	S	U	
Nitro Lime		S		
Octane	S			
Oil-Core	S			
Oil-Fuel	S	S		
Oil-Hydraulic	S	S		
Oil-Petroleum	S			
Crude	S	S	S	
Refined	S			
Oil-Transmission	S	S		
Oil-Vegetable	S	U		
Oleic Acid	S	U	S	
Oleum	U	S	U	
Oxalic Acid	S	S	S	S
Oxygen	S	U	S	S
Palmitic Acid	S	S		
Paraffin	S	S	S	
Pentachlorophenol-Dry				
Perchlorethylene	S	U		
Phosphoric Acid	U	S		S
Photographic Solutions	S	S	S	
Phthalic Anhydride		S		
Picric Acid-Molten	U	S	U	
Aqueous Solution		S		
Plating Solutions, Chrome		S		
Potassium Acetate		S		
Potassium Chloride	S	S	S	S
Potassium Cyanide	S	S	S	
Potassium Dichromate	U	S	S	S
Potassium Fluoride	S	S	S	

FLUID	COUPLER MATERIAL NY-GLASS	POLY-GLASS	PVC	PVDF
Potassium Hydroxide, 30%	S	S	S	
Potassium Nitrate	S	S	S	S
Potassium Sulfate	S	S		S
Propane	S	S	S	
Propionic Acid	S	S		
Propylene Glycol	S	S		
Rosin	S	S		
Salt Water	S	S	S	S
Shellac	S	S		
Silicone Fluid	S			
Silicone Oil	S	S		
Silver Nitrate	S	S	S	S
Soap Solutions	S	S	S	
Soda Ash	S	S		
Sodium Bicarbonate	S	S	S	
Sodium Bisulfate		S	S	
Sodium Borate	S	S		
Perborate	S	S		
Sodium Carbonate	S	S	S	S
Sodium Chloride	S	S	S	S
Sodium Cyanide, 10%	S	S	S	S
Sodium Dichromate, 10%		S		
Sodium Hydroxide, 40%	S	S	S	
Sodium Hypochlorite, 20%	U	S	S	
Sodium Metaphosphate	S	S		
Sodium Nitrate	S	S	S	S
Sodium Peroxide		S	S	
Sodium Phosphate-				
Mono-Basic		S		
Di-Basic		S		
Tri-Basic		S		
Sodium Silicate		S		S
Sodium Sulfate	S	S	S	S
Sodium Sulfide		S	S	
Sodium Thiosulfate		S	S	S
Soybean Oil	S	S		
Stannic Chloride	U	S	S	
Stannous Chloride, 15%	U	S		
Steam				
Stearic Acid		S	S	
Stoddard Solvent		S	U	
Styrene		U		

Basic Chemical Resistance Table cont.

	COUPLER MATERIAL			
FLUID	**NY-GLASS**	**POLY-GLASS**	**PVC**	**PVDF**
Sugar Liquors-Cane	S	S		
Beet	S	S		
Sulfate Liquors		S		
Sulphite Liquors		S	S	
Sulfuric Acid	U	S		S
Sulfurous Acid	U	S	S	
Superphosphate		S		
Tannic Acid, 10%		S	S	S
Tar-Wood		S		
Tartaric Acid	S	S	S	S
Titanium Tetrachloride-				
Dry		S	U	
Toluene/Toluol	S		S	
Tetrachloroethylene	S			
Trichloroethylene-Dry	S			
Triethanolamine		S	S	S
Trisodium Phosphate	S	S	S	
Urea		S	S	S
Urine	S	S	S	
Varnish	S			
Vinegar	S	S	S	
Water-Acid Mine	S	S	S	
Deionized	S	S		
Demineralized	S	S		
Distilled	S	S		
Fresh	S	S		
Salt	S	S		S
White Liquor (Paper Ind)		S	S	
Wine	S	S	S	
Xylene/Xylol	S		U	
Zinc Chloride		S	S	S
Zinc Nitrate, Sulphate	S	S	S	S

LEGEND:
S - Satisfactory
P - Poor
U - Unsatisfactory
Blank - Not tested

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Bee Valve Inc. products are not intended for use in applications which might subject products to pressures that exceed the maximum recommended temperatures and/or pressures. Further allowance must be made to the recommended ratings based on specific operating conditions. Application and product age must also be considered for suitability and safe use.

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