



BUTTERFLY VALVE SELECTION DATA

E - Excellent
 G - Good
 F - Fair
 U - Unsatisfactory

Chemical Agents	Metal			Elastomer				
	Iron	316SS	AL-Bronze	Monel	EPDM	NBR	Viton	Natural Rubber
Acetaidihyde	U	E	U	F	G	U	-	F
Acetic acid 50% 50°C	U	E	U	F	G	U	U	F
Acetic acid-Anhydirde	U	E	U	F	U	U	U	F
Acetone	G	E	E	E	G	U	U	E
Acetylene	G	E	E	-	U	F	U	-
Acrylonitrile	G	E	E	E	U	U	U	U
Air(Duy)	E	E	E	E	E	-	-	-
Alcohol-Amyl	F	E	E	E	-	F	G	-
Alcohol-Butyl	F	E	E	E	-	F	-	-
Alcohol-Ethyl	U	E	E	E	E	G	G	G
Alcohol-Methyl	U	E	E	E	E	G	U	G
Alum-Ammonium	U	G	-	-	-	G	G	F
Alum-Chrome	U	G	-	-	-	G	G	F
Alum-Potassium	U	G	-	-	-	-	-	-
Alumina	G	G	G	G	E	E	G	G
Aluminum Chloride	U	U	U	E	E	E	E	E
Aluminum Fluoride	U	G	-	G	-	G	G	-
Aluminum Hydroxide	U	G	-	-	-	G	G	-
Aluminium Sulphate	U	G	U	-	-	E	-	-
Amines	U	E	-	-	-	F	-	-
Ammonia, Anhydrous	F	E	U	-	E	G	U	-
Ammonia gas 1 50° F	U	E	U	-	G	-	-	-
Ammonia solutions	F	E	U	G	E	G	U	G
Ammonia Chloride 50% 180° F	U	G	U	G	-	-	-	-
Ammonia Hydroxide	U	E	U	F	E	U	G	U
Ammonia Nitrate 5% 60° F	F	E	U	G	-	E	-	-
Ammonia Phosphate	U	G	U	G	E	E	-	G
Ammonia Sulphate	U	G	U	G	E	E	E	-
Amyl Acetate	F	E	E	G	-	U	F	U
Amylchloride	F	E	E	-	U	U	U	U
Anillne 90% 70° F	F	E	F	-	G	U	G	U
Asphalt	E	E	E	E	-	U	E	U
Barium Carbonate 60° F	U	-	G	G	E	E	-	-
Barium chloride	U	-	-	G	E	E	E	E
Barium Hydroxide	F	E	U	-	-	E	-	U
Barium Sulphate	U	E	G	G	E	E	E	E
Barium Sulphate	F	E	U	-	-	E	-	-
Beer (beverage)	U	E	U	-	E	-	-	-
Beer sugar solution	U	E	U	-	-	E	-	-
Benzoldehyde	F	E	E	-	G	U	U	U
Benzene(benzol) 70° F	F	E	E	G	U	U	G	U
Benzoic Acid 5%	U	E	-	G	-	F	-	-
Borax	U	E	U	E	-	G	-	G
Boric acid 5% 200° F	U	E	F	G	E	E	-	-
Brine	U	-	-	G	E	E	-	-
Bromine-Gas	U	U	U	F	U	U	G	U
Bromine-Water	U	U	U	F	U	U	G	U
Butadiene	F	E	E	-	-	G	G	-
Butane-Butyleae	G	E	E	E	U	G	G	U
Butyl Acetate	G	E	E	-	E	U	U	U

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	Iron	316SS	AL-Bronze	Monel	EPDM	NBR	Viton	Natural Rubber
Butyric Acid 5%	U	E	-	-	U	U	U	U
Calcium carbonate 60° F	F	-	-	E	E	E	E	E
Calcium chlorate 20%	-	E	-	G	-	-	-	-
Calcium chloride	F	G	F	G	E	E	E	G
Calcium chloride solution	F	E	F	-	E	E	E	G
Calcium Hydroxide 50% 175° F	F	E	U	E	E	E	E	E
Calcium Hypochlorite	-	G	-	-	-	F	-	-
Calcium Sulphate	F	E	E	G	E	E	E	E
Carbon Dioxide	F	E	E	-	G	G	E	G
Carbon Tetrachloride	U	G	F	G	U	U	E	U
Carbonic Acid	U	G	-	G	-	E	-	-
Chlorine gas-dry 70° F	U	G	F	F	U	U	E	U
Chlorobenzene 90%	F	E	E	E	U	U	G	U
Chromin Acid 5% 70° F	U	E	U	-	U	U	E	U
Citric Acid 5% 150° F	U	E	F	G	E	G	E	U
Coffee(food)	U	E	U	-	E	U	E	E
Copper Sulphate	F	E	U	U	E	E	E	G
Cyclohexane	F	E	E	-	U	E	E	U
Deztrose(food)	U	E	-	-	-	E	-	-
Diacetone	U	-	E	-	E	U	U	U
Dichloroethane	U	F	-	-	U	U	G	U
Diesel Fuels	F	E	G	E	U	E	E	-
Diethyl Amine	F	E	E	-	F	U	U	F
Dowtherms	G	E	E	-	U	U	E	U
Drilling Mud	G	E	-	E	U	E	-	U
Ethers	U	E	E	G	U	U	-	U
Ethyl Acetate	F	E	-	E	G	U	U	U
Ethyl Dhloride 5%	F	E	E	G	E	E	E	F
Ethyl Glycol	G	E	E	E	E	E	E	G
Ethylene Oxide	G	E	-	-	U	U	U	U
Fats	E	E	E	-	U	E	-	-
Ferric Chloride	U	-	U	E	-	F	-	-
Ferric Nitrate	U	E	-	E	G	F	-	-
Ferric Sulphate 5%	U	G	U	E	-	E	E	-
Ferric Sulphate	F	E	U	-	G	E	G	G
Fluorine	U	U	U	G	-	G	-	-
Fluosillicic Acid	G	U	E	-	-	E	-	-
Formaldehyde 70° F	U	E	E	G	E	G	E	-
Formic acid 5% 150° F	U	E	E	G	-	U	U	U
Freon	F	E	E	E	U	G	G	U
Fruit Juices(food)	U	E	U	-	G	G	-	-
Fuel Oil	F	E	E	G	U	F	E	U
Gallic Acid 5% 200° F	E	U	-	-	-	G	G	-
Gasoline	F	E	G	G	U	E	E	U
Glucose	U	E	G	G	-	E	E	U
Glycerine/Glycerol	F	E	G	G	-	E	E	-
Heptane	F	E	E	-	U	E	E	U
Hexane	F	E	E	-	U	G	E	U
Hydrobromic Acid 200° F	U	U	U	U	U	U	U	U
Hydrochloric Acid 15% 60°F	U	U	U	U	E	U	E	-

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Hydrochloric Acid 37% 60°F	U	U	U	U	U	U	E	U
Hydrochloric Acid 20%	U	U	U	F	-	U	E	U
Hydrochloric Acid 20-60%	U	U	U	U	-	U	E	U
Hydrogen	F	E	F	-	E	E	E	E
Hydrogen Peroxide 90%	U	G	U	E	-	U	G	U
Hydrogen Sulfide	F	G	F	-	E	U	U	U
Iodine Solution	U	U	U	E	-	U	F	U
Iso-octane	F	E	E	E	U	E	E	-
Isopropyl Alcohol	F	E	E	E	-	G	E	-
Sopropyl Ether	F	E	E	E	U	E	E	U
Kerosene	E	E	E	E	U	E	E	U
Lactic Acid 5%	U	G	U	G	-	F	-	-
Lubricating Oil	E	E	E	E	U	E	E	U
Magnesium Chloride 4%	F	G	F	G	E	E	E	E
Magnesium Hydroxide	F	E	G	-	E	G	E	G
Magnesium Sulphate	F	E	E	E	E	E	E	G
Mercuric Chloride 3%	U	F	U	G	E	E	-	-
Mercurly	E	E	U	E	E	E	E	E
Methane	U	E	E	-	U	E	E	U
Methyl Acetate	F	E	E	-	F	U	U	U
Methyl Acetone	F	E	E	-	G	U	U	U
Methyl Chloride	G	E	E	-	U	U	E	U
Methyl Etherl Kotone	E	E	E	-	U	U	U	U
Milk(food)	U	E	-	-	E	E	E	E
Mineral Oil	F	F	-	-	U	E	E	U
Molasses(food)	U	E	U	-	E	-	-	-
Napthalene	F	E	E	-	U	U	G	U
Natural Gas	G	E	E	-	U	E	E	U
Nickel Chloride	U	F	-	-	-	E	-	-
Nitric acid less 40% 70°F	U	-	U	U	U	U	EU	
Nitric acid more 40% 70° F	U	U	U	U	U	U	F	U
Nitrobenzene	U	E	-	-	U	U	G	U
Oleum	U	F	-	-	U	U	E	U
Olive OH	-	E	-	-	G	E	E	U
Oxalic Acid	U	G	U	-	G	U	G	U
Oxygen 200° F	E	E	E	E	E	G	E	F
Oxygen 300° F	E	E	E	E	U	U	G	U
Palmitic acid	U	E	G	-	-	E	-	-
Perchloroethylene	F	E	-	-	U	F	E	U
Petroleum	U	G	F	G	U	E	E	U
Phenol	U	E	-	E	U	U	E	U
Phosphoric Acid 5%	U	G	U	G	F	F	E	F
Phosphoric Acid 85% 70° F	U	G	U	-	F	F	-	F
Picric Acid 80%	U	E	-	F	U	-	-	-
Potassium Cyanide	F	E	U	-	-	E	E	-
Potassium Hydroxide 5%	F	E	U	E	-	E	E	-
Potassium Nitrate	F	E	F	G	E	E	E	E
Potassium Phosphate	U	G	-	-	-	E	E	-
Potassium Sulfide	U	E	-	-	-	E	-	-
Potassium Sulfite	U	E	-	-	G	F	-	-

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	Iron	316SS	AL Bronze	Monel	EPDM	NBR	Viton	Natural Rubber
Propane	F	E	F	-	U	E	E	-
Resins	U	E	F	-	-	-	G	F
Sea Water 70° F	U	G	G	E	E	G	E	-
Soap Solution(Slearate)	U	E	F	G	E	E	E	-
Sodium Acetate 5%	U	E	E	G	E	G	U	-
Sodium Bisulfate	U	E	-	-	-	E	E	-
Sodium Carbonate	U	E	G	E	E	E	E	E
Sodium Chloride 30% 180° F	U	E	E	E	E	E	E	E
Sodium Cyanide	U	E	U	-	-	E	E	-
Sodium Fluoride 5% 60°	U	-	F	G	-	-	E	-
Sodium Hydroxide 50% 122° F	U	G	U	G	E	U	U	G
Sodium Hydroxide 50% 176° F	U	G	U	G	G	U	U	U
Sodium Hypochlorite 50% 60° F	U	G	U	E	G	U	E	U
Sodium Nitrate	U	E	G	G	E	G	-	G
Sodium Perborate	U	E	-	-	-	G	E	-
Sodium Peroxide	U	E	U	-	E	G	E	G
Sodium Phosphate 5%	U	E	-	G	E	E	E	E
Sodium Sillicate	U	E	G	G	E	E	E	E
Sodium Sulfite 70%	U	E	U	-	-	-	-	-
Sodium Sulfite	U	-	U	G	G	E	E	-
Sodium Sulphate 80% 60° F	U	F	G	G	E	E	E	G
Steam 300° F	U	E	G	E	E	U	U	U
Steraric Acid 90% 200° F	U	E	F	F	-	G	-	-
Sulphur (Molten)	U	G	U	U	E	-	E	-
Sulphur Dioxide	U	E	F	E	G	U	E	U
Sulphur Trioxide	U	E	-	-	-	U	E	U
Sulfuric Acid 10%	U	G	U	U	E	U	E	F
Sulfuric Acid 50%	U	U	U	U	F	U	E	U
Sulfuric Acid 93% 70° F	U	U	U	U	U	U	E	U
Sulphurous Acid 80% 100° F	U	U	U	U	U	U	E	U
Tannic Acid 10% 150° F	U	E	G	-	-	U	E	F
Tar	F	E	E	E	U	U	G	U
TartaricAcid 150° F	U	E	G	-	-	E	-	G
Thinner	U	E	E	E	U	U	U	U
Toluol and Toluene	U	E	E	-	U	U	G	U
Tributyl Phosphate	U	E	-	-	U	U	F	F
Trichloroethylene	-	E	E	-	U	U	E	U
Tricresyl Phosphate	U	U	U	-	G	U	E	U
Triethanolamine	U	-	-	G	E	G	U	U
Turperntine	U	E	G	-	U	U	E	U
Vinegar 70° F	U	E	-	-	G	E	E	-
Water-Demineraized	U	E	E	E	E	G	E	G
Water-distilled	U	E	U	-	E	G	-	-
Water Fresh	F	E	E	E	E	G	-	E
Water Mineral	F	E	E	E	E	G	-	-
Water-Sewage	U	E	E	E	E	G	-	-
Whiskey and Wines	U	E	G	E	E	E	-	-
Xylene, Xylol	F	E	E	-	U	U	E	U
Zinc Chloride 5% 160° F	U	F	U	G	E	E	E	E
Zinc Sulphate 25% 180° F	U	E	E	G	-	E	-	-