

### Chemical Compatibility Information

Inline diagphram type check valves, all types of filters, self-sealing check valves, ball type check valves, and spring loaded check valves are all products that can, and typically do, contain multiple types of different materials. The chemical compatibility of the whole product is limited to those chemicals which are compatible with all of the materials present in the product. Pneuline has compiled an extensive list of various chemical compatibility ratings for the different materials that we use to manufacture our products, and have provided a list of chemical compatibility ratings for each specific product based on the materials used in that product.

### The rating system is as follows:

- A = Excellent -- The product is fully compatible with the chemical and is recommended for continuous use within the normal operating parameters of the product (temprature, pressure, etc).
- **B = Adequate** -- The chemical causes a minor effect to the product, slight corrosion or discoloration, minor loss in performance or slightly shortened operating lifespan.
- C = Not Ideal -- The chemical has a pronounced effect on the product and will degrade it. Material softening, swelling, loss of strength, corrosion, and discoloration may occur. Use only for limited timespans and replace often.
- **D = Severe Effect** -- The chemical has a severe adverse affect on the product and will likely destroy it. Not reccomended for use.
- N/A = No Data Available -- One or more of the materials in the product has an unknown compatibility with the chemical.



<b>Chemical Substance</b>	Rating	<b>Chemical Substance</b>	Rating
Acetaldehyde	D	Barium Carbonate	c
Acetamide	D	Barium Chloride	A
Acetic Acid	В	Barium Hydroxide	D
Acetic Acid 20%	Α	Barium Nitrate	D
Acetic Acid 80%	В	Barium Sulfate	D
Acetic Acid, Glacial	В	Beer	Α
Acetic Anhydride	D	Benzaldehyde	D
Acetone	D	Benzene	D
Acetyl Chloride (dry)	D	Benzoic Acid	В
Acetylene	D	Benzol	D
Alcohols: Amyl	В	Bromine	С
Alcohols: Butyl	Α	Butadiene	D
Alcohols: Ethyl	С	Butane	D
Alcohols: Isopropyl	Α	Butanol (Butyl Alcohol)	В
Alcohols: Methyl	D	Buttermilk	Α
Aluminum Chloride 20%	Α	Butyl Amine	D
Aluminum Hydroxide	В	Butyl acetate	D
Aluminum Nitrate	Α	Butyric Acid	D
Aluminum Potassium Sulfate 10%	С	Calcium Bisulfite	D
Aluminum Potassium Sulfate 100%	С	Calcium Carbonate	С
Aluminum Sulfate	Α	Calcium Hydroxide	D
Amines	D	Calcium Hypochlorite	D
Ammonia 10%	D	Calcium Nitrate	Α
Ammonia, anhydrous	D	Calcium Sulfate	С
Ammonia, liquid	D	Carbolic Acid (Phenol)	D
Ammonium Chloride	Α	Carbon Disulfide	D
Ammonium Hydroxide	D	Carbon Tetrachloride	D
Ammonium Phosphate, Dibasic	D	Carbonic Acid	Α
Ammonium Sulfate	D	Chlorine (dry)	C
Amyl Acetate	D	Chlorine Water	С
Amyl Alcohol	В	Chlorine, Anhydrous Liquid	N/A
Aniline	D	Chloroacetic Acid	D
Aqua Regia (80% HCl, 20% HNO3)	D	Chlorobenzene (Mono)	D
Arsenic Acid	Α	Chloroform	D
Asphalt	D	Chlorosulfonic Acid	D

The information in this chart has been compiled from several sources and as such Pneuline makes no guarantee as to the accuracy or completeness of the information. This chart is ONLY to be used as a guide in selecting the appropriate product for a particular use case. A product's resistance to chemical exposure will vary based on a variety of factors including: temprature, exposure time, quantity, concentration, and purity of chemicals, presense or absence of catalyzing agents, and pressure. Ratings listed in this chart apply for a limited exposure time (normally 48 hours) and as such Pneuline offers NO warranty (express or implied) that a particular product will perform adequately in a given environment.



<b>Chemical Substance</b>	Rating	<b>Chemical Substance</b>	Rating
Chocolate Syrup	A	Ferric Sulfate	Α -
Chromic Acid 10%	В	Ferrous Chloride	N/A
Chromic Acid 30%	С	Ferrous Sulfate	ć
Chromic Acid 5%	В	Fluorine	С
Chromic Acid 50%	D	Fluorosilicic Acid	В
Chromic Acid 80%	D Formaldehyde 100%		D
Cider	Α	Formaldehyde 40%	D
Citric Acid	Α	Formic Acid	D
Copper Cyanide	D	Fuel Oils	В
Copper Nitrate	D	Furfural (Furfuraldehyde)	D
Copper Sulfate (more than 5%)	Α	Gasoline (high-aromatic)	Α
Copper Sulfate 5%	Α	Gasoline, leaded, ref.	Α
Cresols	D	Gasoline, unleaded	Α
Cresylic Acid	D	Glucose	Α
Cyclohexane	В	Glycerin	Α
Cyclohexanone	D	Heptane	В
Detergents	Α	Hexane	D
Dichloroethane	D	Honey	Α
Diesel Fuel	Α	Hydrochloric Acid 100%	D
Diethylamine	D	Hydrochloric Acid 20%	В
Diethylene Glycol	В	Hydrochloric Acid 37%	D
Dimethyl Aniline	D Hydrofluoric Acid 100%		D
Dimethyl Formamide	D	Hydrofluoric Acid 20%	D
Epsom Salts (Magnesium Sulfate)	Α	Hydrofluoric Acid 50%	D
Ethanol	С	Hydrofluoric Acid 75%	D
Ethyl Acetate	D	Hydrogen Peroxide 10%	Α
Ethyl Chloride	D	Hydrogen Peroxide 100%	Α
Ethylene Chloride	D	Hydrogen Peroxide 30%	Α
Ethylene Chlorohydrin	D	Hydrogen Peroxide 50%	Α
Ethylene Dichloride	D	Hydrogen Sulfide (aqua)	D
Ethylene Glycol	В	Isopropyl Acetate	D
Ethylene Oxide	D	Isopropyl Ether	D
Fatty Acids	В	Jet Fuel (JP3, JP4, JP5)	Α
Ferric Chloride	Α	Kerosene	D
Ferric Nitrate	Α	Ketones	D

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Lacquer Thinners D Lacquers D Lacquers D Nitromethane D Lactic Acid B Colls: Citric A Lard A Colls: Fuel Oil (1, 2, 3, 5A, 5B, 6) B Lead Sulfamate Lubricants A Lye: Ca(OH)2 Calcium Hydroxide D Lye: CA(OH)2 Calcium Hydroxide D Lye: No Potassium Hydroxide D Cyone A Lye: No Potassium Hydroxide D Lye: No Potassium Nitrate A Magnesium Nitrate A Magnesium Nitrate A Magnesium Nitrate A Magnesium Sulfate (Epson Salts) A Mercuric Chloride (dilute) A Mercury D Mercuric Chloride (dilute) A Mercury D Methyl Alcohol D Phosphoric Acid (more than 40%) A Methyl Acetate D D Phosphoric Acid (less than 40%) A Methyl Acetate D D Phosphoric Acid (less than 40%) A Methyl Alcohol D Phosphoric Acid D Methyl Butyl Ketone D Potassium Bromide C Methyl Chloride D Methyl Chloride D Potassium Chlorate C Methyl Chloride D Methyl Setone D Potassium Chlorate C Methyl Chloride D Methyl Setone D Potassium Pormanganate C Methyl Chloride D Milk A Potassium Pormanganate C Methyle Chloride D Nilke Chloride D Nilke Chloride A Milkand B Propale Glycol C Naphtha B Propale Glycol C Naphtha B Propale Glycol C Nickel Chloride A Nitric Acid (20%) B Silicone A Nitric Acid (50%) Nitric Acid (500%) Nitric Acid (500%) Nitric Acid (500m) A Nitric Acid (500m) A Nitric Acid (500m) A Nitric Acid (500m) D Soda Ash (see Sodium Carbonate) A	<b>Chemical Substance</b>	Rating	<b>Chemical Substance</b>	Rating
Lacquers Lactic Acid Lard A A Oils: Citric A A Cilis: Fuel Oil (1, 2, 3, 5A, 5B, 6) B Ludricants A Cilis: Fuel Oil (1, 2, 3, 5A, 5B, 6) B Lubricants A Cilis: Mineral B Lubricants A Cilis: Oilve A Cye: Ca(OH)2 Calcium Hydroxide D Cilis: Oilve A Cye: KOH Potassium Hydroxide D Cycone A Cye: NaOH Sodium Hydroxide A Cycone A Cy	Lacquer Thinners	D	Nitrobenzene	D _
Lactic Acid Lard A Colls: Fuel Oil (1, 2, 3, 5A, 5B, 6) B Lead Sulfamate A Colls: Mineral B Lubricants A Lye: Ca(OH)2 Calcium Hydroxide D Lye: KOH Potassium Hydroxide D Lye: NaOH Sodium Hydroxide D Lye: NaOH Sodium Hydroxide D Lye: NaOH Sodium Hydroxide D Ragnesium Chloride A Ragnesium Nitrate A Ragnesium Nitrate A Ragnesium Sulfate (Epsom Salts) A Rercury D Rethyl Butyl (Edonol) D Rethyl Butyl (Edonol) D Rethyl Butyl (Edono D Rethyl Cellosolve D Rethyl Cellosol	· · · · · · · · · · · · · · · · · · ·	D	Nitromethane	D
Lead Sulfamate Lubricants A Oils: Mineral A Clubricants A Oils: Olive A Lye: Ca(OH)2 Calcium Hydroxide D Oils: Pine A Lye: KOH Potassium Hydroxide D Ozone A Lye: NaOH Sodium Hydroxide D Paraffin A Magnesium Chloride A Magnesium Nitrate A Magnesium Nitrate A Magnesium Sulfate (Epsom Salts) A Mercuric Chloride (dilute) A Mercury D Methyl Acetate D Methyl Acetate D Methyl Acetate D Methyl Acetate D Methyl Retone D Motassium Dichromate A Methylene Chloride D Milk A Methylene Chloride D Milk A Mineral Spirits C Motor oil A Mustard B Propane (liquefied) C Naphtha Nitric Acid (20%) B Nitric Acid (50%) C Nitric Acid (50%) A Nitric Acid (50%)	·	В		Α
Lead Sulfamate Lubricants A Oils: Mineral A Lupic: Ca(OH)2 Calcium Hydroxide D Oils: Pine A Lye: CA(OH)2 Calcium Hydroxide D Oils: Pine A Lye: KOH Potassium Hydroxide D Ozone A Lye: NaOH Sodium Hydroxide D Paraffin A Magnesium Chloride A Magnesium Hydroxide A Magnesium Hydroxide A Magnesium Nitrate A Magnesium Nitrate A Magnesium Sulfate (Epsom Salts) A Mercuric Chloride (dilute) A Mercury D Methanol (Methyl Alcohol) D Methyl Acetate D Methyl Acetate D Methyl Acetate D Methyl Alcohol 10% D Methyl Alcohol 10% D Methyl Butyl Ketone D Methyl Cellosolve D Methyl Chloride D Methyl Chloride D Methyl Ethyl Ketone D Methyl Spirits C Methyl Coloride D Methyl Spirits C Methyl Coloride D Milk A Mercural Mineral Spirits C Motor oil A Mustard B Propane (liquefied) C Naphtha B Propane (liquefied) C Naphtha B Propane (liquefied) C Naphtha B Propylene Glycol C Nickel Chloride A Nitric Acid (20%) B Nitric Acid (50%) A Nit	Lard	Α	Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6)	В
Lye: Ca(OH)2 Calcium Hydroxide Lye: KOH Potassium Hydroxide D D D Paraffin A Magnesium Chloride A Magnesium Nitrate A Magnesium Nitrate A Magnesium Sulfate (Epsom Salts) A Mercuric Chloride (dilute) A Methyl Acetate D Methyl Acetate D Methyl Butyl Ketone D Methyl Cellosolve D Methyl Chloride D Methyl Chloride D Methyl Spirits C Methyl Chloride D Methyl Spirits C Methyle Chloride D Motassium Mydroxide (Caustic Potash) D Milk A Methyle Chloride D Motassium Permanganate C Motor oil A Methyla Methyle D Notassium Permanganate C Motor oil A Mustard B Propane (liquefied) C Naphtha B Propane (liquefied) C Naphtha Nitric Acid (20%) B Nitric Acid (50%) A Nitric Ac	Lead Sulfamate	Α		В
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Lye: NaOH Sodium Hydroxide  A Magnesium Chloride  A Pentane  A Perchloroethylene  D Magnesium Nitrate  A Phenol (10%)  B Magnesium Sulfate (Epsom Salts)  A Phenol (Carbolic Acid)  Mercuric Chloride (dilute)  A Phosphoric Acid (more than 40%)  A Phosphoric Acid (crude)  A Phosphoric Acid (less than 40%)  A Methanol (Methyl Alcohol)  D Phosphoric Acid (less than 40%)  A Methyl Acetate  D Phosphoric Acid (less than 40%)  A Methyl Alcohol 10%  D Phosphoric Acid (less than 40%)  A Methyl Alcohol 10%  D Potassium Bromide  C Methyl Butyl Ketone  D Potassium Bromide  C Methyl Cellosolve  D Potassium Chlorate  C Methyl Chloride  D Potassium Dichromate  A Methyl Ethyl Ketone  D Potassium Dichromate  A Methyl Ethyl Ketone  D Potassium Nitrate  A Mineral Spirits  C Potassium Permanganate  C Motor oil  A Potassium Permanganate  C Potassium Permanganate  C Notor oil  A Potassium Permanganate  A Nitric Acid (50%)  B Silicone  A Nitric Acid (50%)  B Silicone  A Nitric Acid (50%)  A Nitric Acid (50%)  A Soap Solutions	Lye: Ca(OH)2 Calcium Hydroxide	D	Oils: Pine	Α
Lye: NaOH Sodium Hydroxide  A Magnesium Chloride  A Pentane  A Pentane  A Pentane  A Perchloroethylene  D Magnesium Nitrate  A Phenol (10%)  B Magnesium Sulfate (Epsom Salts)  A Phenol (Carbolic Acid)  Mercuric Chloride (dilute)  A Phosphoric Acid (more than 40%)  A Mercury  D Phosphoric Acid (less than 40%)  Methyl Alcohol 10%  D Phosphoric Acid (less than 40%)  Methyl Acetate  D Phosphoric Acid (less than 40%)  Methyl Alcohol 10%  D Phosphoric Acid (less than 40%)  Methyl Alcohol 10%  D Potassium Bromide  C Methyl Butyl Ketone  D Potassium Bromide  C Methyl Chloride  D Potassium Chlorate  C Methyl Chloride  D Potassium Dichromate  A Methyl Ethyl Ketone  D Potassium Dichromate  A Methyl Ethyl Ketone  D Potassium Nitrate  A Mineral Spirits  C Potassium Permanganate  C Motor oil  A Potassium Permanganate  C Naphtha  Mineral Spirits  D Potassium Permanganate  C Notor oil  A Potassium Permanganate  C Naphtha  Misckel Chloride  A Potassium Permanganate  C Naphtha  B Propane (liquefied)  C Naphtha  Nickel Chloride  A Potassium Permanganate  A Nitric Acid (20%)  B Silicone  A Nitric Acid (50%)  C Silver Nitrate  A Nitric Acid (50%)  A Nitric Acid (50%)  A Soap Solutions		D	Ozone	Α
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Methyl CellosolveDPotassium ChlorateCMethyl ChlorideDPotassium ChlorideAMethyl Ethyl KetoneDPotassium DichromateAMethylene ChlorideDPotassium Hydroxide (Caustic Potash)DMilkAPotassium NitrateAMineral SpiritsCPotassium PermanganateCMotor oilAPotassium SulfateAMustardBPropane (liquefied)CNaphthaBPropylene GlycolCNickel ChlorideAPyridineDNickel NitrateDSalicylic AcidANickel SulfateASea WaterANitric Acid (20%)BSiliconeANitric Acid (50%)CSilver NitrateANitric Acid (5-10%)ASoap SolutionsA	Methyl Alcohol 10%	D	Picric Acid	D
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Nickel ChlorideAPyridineDNickel NitrateDSalicylic AcidANickel SulfateASea WaterANitric Acid (20%)BSiliconeANitric Acid (50%)CSilver NitrateANitric Acid (5-10%)ASoap SolutionsA	Motor oil	Α	Potassium Sulfate	Α
Nickel ChlorideAPyridineDNickel NitrateDSalicylic AcidANickel SulfateASea WaterANitric Acid (20%)BSiliconeANitric Acid (50%)CSilver NitrateANitric Acid (5-10%)ASoap SolutionsA	Mustard	В	Propane (liquefied)	C
Nickel NitrateDSalicylic AcidANickel SulfateASea WaterANitric Acid (20%)BSiliconeANitric Acid (50%)CSilver NitrateANitric Acid (5-10%)ASoap SolutionsA	Naphtha	В	Propylene Glycol	C
Nickel SulfateASea WaterANitric Acid (20%)BSiliconeANitric Acid (50%)CSilver NitrateANitric Acid (5-10%)ASoap SolutionsA	Nickel Chloride	Α	Pyridine	D
Nitric Acid (20%)BSiliconeANitric Acid (50%)CSilver NitrateANitric Acid (5-10%)ASoap SolutionsA	Nickel Nitrate	D	Salicylic Acid	Α
Nitric Acid (50%)  C  Silver Nitrate  A  Nitric Acid (5-10%)  A  Soap Solutions  A	Nickel Sulfate	Α	Sea Water	Α
Nitric Acid (5-10%) A Soap Solutions A	Nitric Acid (20%)	В	Silicone	Α
Nitric Acid (5-10%) A Soap Solutions A	Nitric Acid (50%)	C	Silver Nitrate	Α
		Α	Soap Solutions	Α
	Nitric Acid (Concentrated)	D	Soda Ash (see Sodium Carbonate)	Α

The information in this chart has been compiled from several sources and as such Pneuline makes no guarantee as to the accuracy or completeness of the information. This chart is ONLY to be used as a guide in selecting the appropriate product for a particular use case. A product's resistance to chemical exposure will vary based on a variety of factors including: temprature, exposure time, quantity, concentration, and purity of chemicals, presense or absence of catalyzing agents, and pressure. listed in this chart apply for a limited exposure time (normally 48 hours) and as such Pneuline offers NO warranty (express or implied) that a particular product will perform adequately in a given environment.

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### **Chemical Substance** Rating Sodium Acetate Sodium Bicarbonate Α Sodium Bisulfate Sodium Bisulfite Sodium Carbonate Sodium Chlorate C Sodium Chloride Sodium Hydroxide (20%) Sodium Hydroxide (50%) Sodium Hydroxide (80%) Sodium Hypochlorite (less than 20%) C Sodium Peroxide Sodium Sulfate Sodium Sulfide Sodium Thiosulfate (hypo) D Stannic Chloride Α Stearic Acid N/A Stoddard Solvent Α D Sulfur Dioxide (dry) Sulfuric Acid (less than 10%) Α Sulfuric Acid (10-75%) C Tannic Acid C Tetrachloroethylene D Tetrahydrofuran D Toluene (Toluol) Tomato Juice Trichloroethane D Turpentine D Urea D Vinegar C В Water, Acid, Mine Water, Distilled В Water, Fresh Α Water, Salt A

Chemical Substance	Ratin
Xylene	D
Zinc Chloride	Α
Zinc Sulfate	Α

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Whiskey and Wines



### Chemical Compatibility Disclaimer

The information in this chart has been compiled from several sources (listed below) and as such Pneuline makes no guarantee as to the accuracy or completeness of the information. This chart is ONLY to be used as a guide in selecting the appropriate product for a particular use case. A product's resistance to chemical exposure will vary based on a variety of factors including: temprature, exposure time, quantity, concentration, the purity of the chemicals involved, presense or absence of catalyzing agents, and pressure. Ratings listed in this chart apply for a limited exposure time (normally 48 hours) and as such Pneuline offers NO warranty (express or implied) that a particular product will perform adequately in a given environment.

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