

Pneuline Supply, Inc. 2881 S 31st Ave Unit 2A Greeley, CO 80631

Product Series: Product Type: Housing Material: Diaphragm Material: Inlet: **Outlet:** Max Operating Temp: 276.80°F / 136.00°C Min Operating Temp: -22.00°F / -30.00°C **Product SKU:**

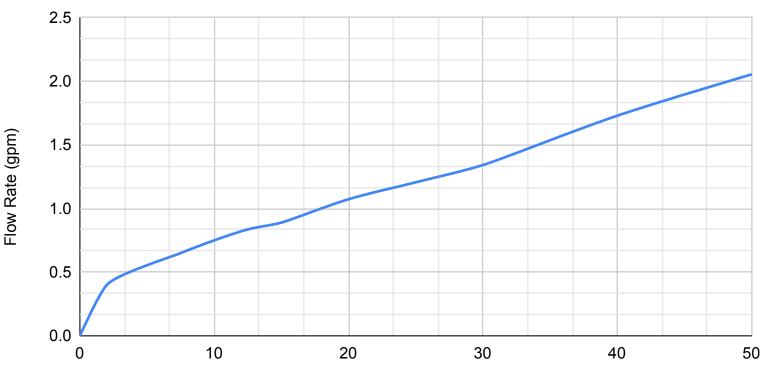
MPVC Inline Check Valve Cleanroom Polycarbonate 0.020" Viton Blue Polycarbonate Macrolon Rx2530 Natural Polycarbonate Macrolon Rx2530 001000307

Physical Properties

Size and Weight: 1.375 Long 0.750 Wide, 2.14g Max Operating Tensile Stress: 10 lbs Max Allowable Leak Rate: 0.009 cm^3/sec @ 15 psi (air) Max Operating Pressure: 15 psi (air) 0.0 psi (Normally Open) Cracking Pressure: Required Sealing Back Pressure: Less than 0.1 psi (air)

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Flow Rate (Gpm) vs. Test Pressure (Psi)



Test Pressure (psi)

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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.

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| Chemical Substance | Rating | Chemical Substance | Rating |
|---------------------------------|--------|----------------------------------|--------|
| Acetaldehyde | - | Barium Carbonate | - |
| Acetamide | D D | Barium Chloride | C A |
| Acetic Acid | B | Barium Hydroxide | D |
| Acetic Acid 20% | A | Barium Nitrate | D |
| Acetic Acid 20% | B | Barium Sulfate | D |
| Acetic Acid, Glacial | B | Beer | |
| Acetic Anhydride | D | Benzaldehyde | A D |
| Acetone | D | Benzene | _ |
| | D | Benzoic Acid | D |
| Acetyl Chloride (dry) | D | Benzol | В |
| Acetylene | _ | | D |
| Alcohols: Amyl | В | Bromine | С |
| Alcohols: Butyl | A | Butadiene | D |
| Alcohols: Ethyl | C | Butane Butane (Butal Alashal) | D |
| Alcohols: Isopropyl | A | Butanol (Butyl Alcohol) | В |
| Alcohols: Methyl | D | Buttermilk | A |
| Aluminum Chloride 20% | A | Butyl Amine | D |
| Aluminum Hydroxide | В | Butyl acetate | D |
| Aluminum Nitrate | A | Butyric Acid | D |
| Aluminum Potassium Sulfate 10% | C | Calcium Bisulfite | D |
| Aluminum Potassium Sulfate 100% | C | Calcium Carbonate | С |
| Aluminum Sulfate | A | Calcium Hydroxide | D |
| Amines | D | Calcium Hypochlorite | D |
| Ammonia 10% | D | Calcium Nitrate | A |
| Ammonia, anhydrous | D | Calcium Sulfate | С |
| Ammonia, liquid | D | Carbolic Acid (Phenol) | D |
| Ammonium Chloride | A | Carbon Disulfide | D |
| Ammonium Hydroxide | D | Carbon Tetrachloride | D |
| Ammonium Phosphate, Dibasic | D | Carbonic Acid | Α |
| Ammonium Sulfate | D | Chlorine (dry) | С |
| 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 | A | Chloroform | D |
| Asphalt | D | Chlorosulfonic Acid | D |
| | | | |

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

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| Chemical Substance | Rating | Chemical Substance | Rating |
|---------------------------------|--------|--------------------------------------|--------|
| Lacquer Thinners | D | Nitrobenzene | D |
| Lacquers | D | Nitromethane | D |
| Lactic Acid | В | Oils: Citric | А |
| Lard | А | Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) | В |
| Lead Sulfamate | А | Oils: Mineral | В |
| Lubricants | А | Oils: Olive | А |
| Lye: Ca(OH)2 Calcium Hydroxide | D | Oils: Pine | А |
| Lye: KOH Potassium Hydroxide | D | Ozone | А |
| Lye: NaOH Sodium Hydroxide | D | Paraffin | А |
| Magnesium Chloride | А | Pentane | А |
| Magnesium Hydroxide | А | Perchloroethylene | D |
| Magnesium Nitrate | А | Phenol (10%) | В |
| Magnesium Sulfate (Epsom Salts) | А | Phenol (Carbolic Acid) | D |
| Mercuric Chloride (dilute) | A | Phosphoric Acid (more than 40%) | А |
| Mercury | D | Phosphoric Acid (crude) | А |
| Methanol (Methyl Alcohol) | D | Phosphoric Acid (less than 40%) | А |
| Methyl Acetate | D | Photographic Solutions | А |
| Methyl Alcohol 10% | D | Picric Acid | D |
| Methyl Butyl Ketone | D | Potassium Bromide | С |
| Methyl Cellosolve | D | Potassium Chlorate | С |
| Methyl Chloride | D | Potassium Chloride | А |
| Methyl Ethyl Ketone | D | Potassium Dichromate | A |
| Methylene Chloride | D | Potassium Hydroxide (Caustic Potash) | D |
| Milk | A | Potassium Nitrate | A |
| Mineral Spirits | С | Potassium Permanganate | С |
| Motor oil | A | Potassium Sulfate | А |
| Mustard | В | Propane (liquefied) | С |
| Naphtha | В | Propylene Glycol | С |
| Nickel Chloride | A | Pyridine | D |
| Nickel Nitrate | D | Salicylic Acid | А |
| Nickel Sulfate | A | Sea Water | А |
| Nitric Acid (20%) | В | Silicone | А |
| Nitric Acid (50%) | С | Silver Nitrate | А |
| Nitric Acid (5-10%) | Α | Soap Solutions | А |
| Nitric Acid (Concentrated) | D | Soda Ash (see Sodium Carbonate) | А |

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| Sodium Acetate | D | Xylene | D |
| Sodium Bicarbonate | A | Zinc Chloride | A |
| Sodium Bisulfate | A | Zinc Sulfate | A |
| Sodium Bisulfite | A | | |
| Sodium Carbonate | A | | |
| Sodium Chlorate | C | | |
| Sodium Chloride | Ā | | |
| Sodium Hydroxide (20%) | В | | |
| Sodium Hydroxide (50%) | D | | |
| Sodium Hydroxide (80%) | D | | |
| Sodium Hypochlorite (less than 20%) | С | | |
| Sodium Peroxide | А | | |
| Sodium Sulfate | А | | |
| Sodium Sulfide | D | | |
| Sodium Thiosulfate (hypo) | D | | |
| Stannic Chloride | А | | |
| Stearic Acid | N/A | | |
| Stoddard Solvent | А | | |
| Sulfur Dioxide (dry) | D | | |
| Sulfuric Acid (less than 10%) | А | | |
| Sulfuric Acid (10-75%) | С | | |
| Tannic Acid | С | | |
| Tetrachloroethylene | D | | |
| Tetrahydrofuran | D | | |
| Toluene (Toluol) | D | | |
| Tomato Juice | В | | |
| Trichloroethane | D | | |
| Turpentine | D | | |
| Urea | D | | |
| Vinegar | С | | |
| Water, Acid, Mine | В | | |
| Water, Distilled | В | | |
| Water, Fresh | A | | |
| Water, Salt | A | | |
| Whiskey and Wines | A | | |

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Chemical Compatibility Disclaimer

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Sources

https://www.plasticsintl.com/chemical-resistance-chart https://www.astisensor.com/KYNAR_PVDF_Chemical_Compatibility_Resistance_Chart.pdf https://www.ipexna.com/media/12311/chemical-guide-us-ipex-pvdf.pdf https://www.polyfluor.nl/en/chemical-resistance/pvdf/ https://www.fhr.com/KochFHR/media/Polyproylenes-unrestricted/PP%20Random%20Copolymers/P5M6K-080.pdf https://mykin.com/rubber-chemical-resistance-chart https://www.calpaclab.com/nylon-chemical-compatibility-chart/ https://www.calpaclab.com/acetal-polyoxymethylene-chemical-compatibility-chart/ https://www.calpaclab.com/polycarbonate-chemical-compatibility-chart/ https://www.calpaclab.com/polycarbonate-chemical-compatibility-chart/ https://www.calpaclab.com/polypropylene-chemical-compatibility-chart/ https://www.calpaclab.com/polypropylene-chemical-compatibility-chart/ https://www.calpaclab.com/polypropylene-chemical-compatibility-chart/ https://www.calpaclab.com/polypropylene-chemical-compatibility-chart/

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