

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: 203.00°F / 95.00°C Min Operating Temp: -30.00°F / -34.44°C **Product SKU:**

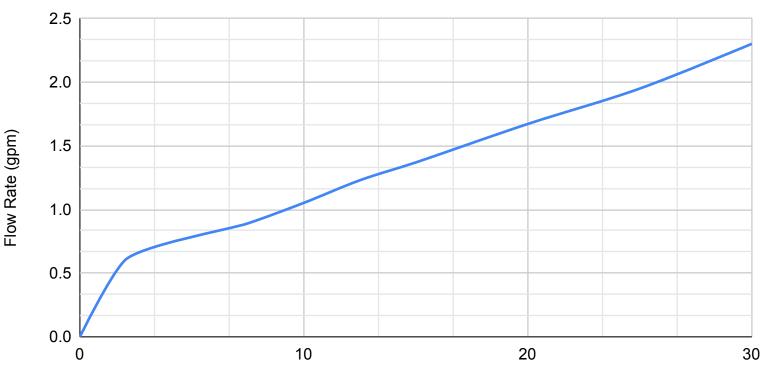
MPVC Inline Check Valve Cleanroom Blue Nylon 21SPF 0.030" Kalrez Blue Nylon 21SPF Blue Nylon 21SPF 001010603

Physical Properties

Size and Weight: 1.690 Long 0.750 Wide, 2.41g Max Operating Tensile Stress: 10 lbs Max Allowable Leak Rate: 0.009 cm^3/sec @ 65 psi (air) Max Operating Pressure: 65 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	A		A
Acetamide	A	Barium Chloride	A
Acetic Acid 200(D	Barium Hydroxide	A
Acetic Acid 20%	D	Barium Nitrate	A
Acetic Acid 80%	D	Barium Sulfate	A
Acetic Acid, Glacial	В	Beer	A
Acetic Anhydride	A	Benzaldehyde	A
Acetone	A	Benzene	A
Acetyl Chloride (dry)	В	Benzoic Acid	D
Acetylene	A	Benzol	D
Alcohols: Amyl	A	Bromine	D
Alcohols: Butyl	D	Butadiene	С
Alcohols: Ethyl	A	Butane	A
Alcohols: Isopropyl	D	Butanol (Butyl Alcohol)	В
Alcohols: Methyl	В	Buttermilk	В
Aluminum Chloride 20%	D	Butyl Amine	A
Aluminum Hydroxide	A	Butyl acetate	A
Aluminum Nitrate	A	Butyric Acid	С
Aluminum Potassium Sulfate 10%	D	Calcium Bisulfite	A
Aluminum Potassium Sulfate 100%	D	Calcium Carbonate	A
Aluminum Sulfate	A	Calcium Hydroxide	А
Amines	D	Calcium Hypochlorite	D
Ammonia 10%	A	Calcium Nitrate	А
Ammonia, anhydrous	В	Calcium Sulfate	D
Ammonia, liquid	В	Carbolic Acid (Phenol)	D
Ammonium Chloride	В	Carbon Disulfide	В
Ammonium Hydroxide	В	Carbon Tetrachloride	D
Ammonium Phosphate, Dibasic	С	Carbonic Acid	А
Ammonium Sulfate	А	Chlorine (dry)	D
Amyl Acetate	В	Chlorine Water	С
Amyl Alcohol	А	Chlorine, Anhydrous Liquid	D
Aniline	А	Chloroacetic Acid	D
Aqua Regia (80% HCl, 20% HNO3)	D	Chlorobenzene (Mono)	D
Arsenic Acid	C	Chloroform	Ā
Asphalt	A	Chlorosulfonic Acid	D
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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.

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

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Lacquer ThinnersANitrobezeneBLacquersANitromethaneBLactic AcidBOils: CitricALardAOils: CitricALardAOils: MineralALubricantsAOils: DilveALye: Ca(OH)2 Calcium HydroxideAOils: PineALye: Ca(OH)2 Calcium HydroxideCOzoneDLye: NoP Horbassium HydroxideAPertaneAMagnesium HydroxideBPertolnorethyleneCMagnesium NitrateAPentaneAMagnesium Chorde (flute)DPhosphoric Acid (more than 40%)BMercuric Chorde (flute)DPhosphoric Acid (more than 40%)BMethyl AcchaelAPhosphoric Acid (crude)BMethyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AlcoholBPirot AcidCMethyl AlcoholBPirot AcidCMethyl AlcoholBPirot AcidCMethyl AlcoholBPirot AcidCMethyl AlcoholBPirot AcidAMethyl AlcoholBPirot AcidCMethyl ChorideCPotassium DichromateAMethyl AlcoholBPirot AcidAMethyl AlcoholBPirot AcidAMethyl AlcoholBPirot AcidAMethyl AlcoholBPirot AcidAMethyl AlcoholBPirot Acid <th>Chemical Substance</th> <th>Rating</th> <th>Chemical Substance</th> <th>Rating</th>	Chemical Substance	Rating	Chemical Substance	Rating
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Lead SulfamateBOils: MineralALubricantsAOils: OliveALye: Ca(OH)2 Calcium HydroxideAOils: OliveALye: Ca(OH)2 Calcium HydroxideCOzoneDLye: NaOH Sodium HydroxideAParaffinAMagnesium ChlorideAPentaneAMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (less than 40%)BMethaol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhosphoric Acid (less than 40%)BMethyl Alcohol 10%BPicric AcidCMethyl Alcohol 10%BPicric AcidCMethyl Alcohol 10%BPicric AcidCMethyl Alcohol 10%BPotassium BromideAMethyl LellosolveCPotassium ChlorateCMethyl ChorideAPotassium DichromateBMethyl Ethyl KetoneAPotassium SulfateAMilikAPotassium SulfateAMineral SpiritsAPropane (liquefied)AMustardAPropane (liquefied)AMustardAPropane (liquefied)AMitckel ChlorideCPyridineCNickel SulfateASea WaterANitric Acid (•	В	Oils: Citric	А
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Methyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANitric Acid (20%)DSiliconeANitric Acid (5-10%)DSoap SolutionsA	Methyl Butyl Ketone	D	Potassium Bromide	А
Methyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANitric Acid (20%)DSiliconeANitric Acid (50%)DSoap SolutionsA	Methyl Cellosolve	С	Potassium Chlorate	С
Methylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Chloride	В	Potassium Chloride	А
MilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Ethyl Ketone		Potassium Dichromate	В
Mineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methylene Chloride	С	Potassium Hydroxide (Caustic Potash)	С
Motor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Milk	А	Potassium Nitrate	В
MustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Mineral Spirits	A	Potassium Permanganate	D
NaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Motor oil	А	Potassium Sulfate	А
Nickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Mustard	A	Propane (liquefied)	Α
Nickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Naphtha	A	Propylene Glycol	A
Nickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Nickel Chloride	С	Pyridine	С
Nitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Nickel Nitrate	А	Salicylic Acid	А
Nitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Nickel Sulfate	A	Sea Water	Α
Nitric Acid (5-10%) D Soap Solutions A	Nitric Acid (20%)	D	Silicone	А
	Nitric Acid (50%)	D	Silver Nitrate	А
Nitric Acid (Concentrated)DSoda Ash (see Sodium Carbonate)B	Nitric Acid (5-10%)	D	Soap Solutions	А
	Nitric Acid (Concentrated)	D	Soda Ash (see Sodium Carbonate)	В

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.

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

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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-resistance/pvdf/ 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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