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: 238.00°F / 114.45°C Min Operating Temp: -30.00°F / -34.44°C **Product SKU:**

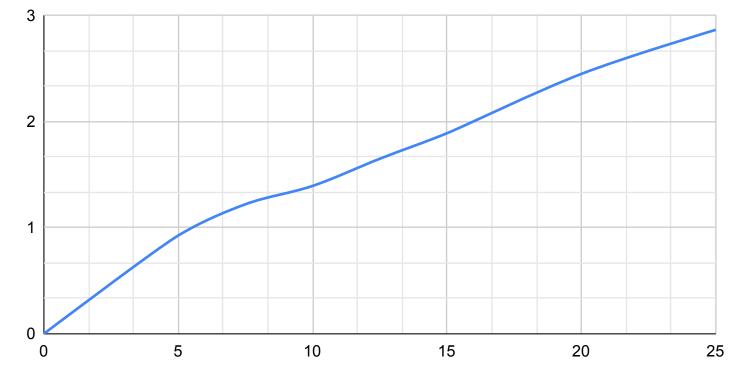
MPVC Inline Check Valve Cleanroom 30% Glass Fill Nylon 0.030" Fluorosilicone Natural Nylon 30% Glass Fill 22HSP Black Nylon 30% Glass Fill 22HSP 001050502

Physical Properties

Size and Weight: 1.565 Long 0.765 Wide, 3.34g Max Operating Tensile Stress: 50 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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Flow Rate (gpm)

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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Ammonium Phosphate, DibasicN/ACarbonic AcidAAmmonium SulfateN/AChlorine (dry)DAmyl AcetateDChlorine WaterN/AAmyl AlcoholAChlorine, Anhydrous LiquidN/AAnilineCChloroacetic AcidDAqua Regia (80% HCl, 20% HNO3)N/AChloroformDArsenic AcidCChloroformD	Chemical Substance Acetaldehyde Acetamide Acetic Acid Acetic Acid 20% Acetic Acid 20% Acetic Acid 80% Acetic Acid, Glacial Acetic Anhydride Acetone Acetone Acetyl Chloride (dry) Acetylene Alcohols: Amyl Alcohols: Butyl Alcohols: Butyl Alcohols: Butyl Alcohols: Isopropyl Alcohols: Isopropyl Alcohols: Isopropyl Alcohols: Methyl Aluminum Chloride 20% Aluminum Nitrate Aluminum Nitrate Aluminum Potassium Sulfate 10% Aluminum Sulfate Aluminum Sulfate Ammonia 10% Ammonia, anhydrous Ammonia, liquid Ammonium Chloride	Rating D A D D D B D D B N/A A D B D N/A N/A D D D A D D D D D D D D D D D D D	Chemical Substance Barium Carbonate Barium Chloride Barium Hydroxide Barium Nitrate Barium Sulfate Beer Benzaldehyde Benzene Benzoic Acid Benzol Bromine Butadiene Butane Butanol (Butyl Alcohol) Buttermilk Butyl Amine Butyl acetate Butyric Acid Calcium Bisulfite Calcium Carbonate Calcium Hydroxide Calcium Hydroxide Calcium Hydroxide Calcium Nitrate Calcium Sulfate Carbolic Acid (Phenol) Carbon Disulfide	Rating A A A N/A A D C D D C C B B B D C C C B B B D D C C C A A A D D C C B B B D D D C C C B B B D D D C C D D D C C D D D C C D D D C C D D D C D D C D D C C D D D C C D D D C C D D D C D D D C C D D D C D D D D D C D D D D C D D D D D C D
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Asphalt B Chlorosulfonic Acid D	Ammonium Hydroxide Ammonium Phosphate, Dibasic Ammonium Sulfate Amyl Acetate Amyl Alcohol Aniline Aqua Regia (80% HCl, 20% HNO3) Arsenic Acid	A N/A D A C N/A C	Carbon Tetrachloride Carbonic Acid Chlorine (dry) Chlorine Water Chlorine, Anhydrous Liquid Chloroacetic Acid Chlorobenzene (Mono) Chloroform	D A D N/A N/A D D 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.

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Chocolate SyrupAFerric SulfateN/AChromic Acid 10%DFerrous SulfateN/AChromic Acid 30%DFerrous SulfateDChromic Acid 5%DFluorineN/AChromic Acid 5%DFluorosilicic AcidN/AChromic Acid 50%DFormaldehyde 100%DCiderAFormaldehyde 40%DCitric AcidAFormic Acid 60%DCopper CyanideDFuel OilsACopper CyanideDGasoline, (Infuraldehyde)N/ACopper Sulfate (more than 5%)DGasoline, (Infuraldehyde)ACopper Sulfate (more than 5%)DGasoline, unleadedACresolsN/AGasoline, unleadedAACresolsN/AGasoline, unleadedACCyclohexanoneDHeytaneCCDichloroethaneBHoneyADDiesel FuelAHydrochloric Acid 100%DDDiethylamineAHydrochloric Acid 100%DDDiethylamineAHydrochloric Acid 100%N/ADDiethylamineAHydrochloric Acid 100%N/ADDiethylamineAHydrochloric Acid 100%N/ADDiethylanineAHydrochloric Acid 100%N/ADDiethylanineAHydrochloric Acid 20%N/ADDiethylane GlycolAHydroflouric Acid 20%N/ADiethylane Gl	Chemical Substance	Rating	Chemical Substance	Rating
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DetergentsAHexaneCDichloroethaneBHoneyADiesel FuelAHydrochloric Acid 100%DDiethylamineAHydrochloric Acid 20%DDiethylene GlycolAHydrochloric Acid 37%DDimethyl AnilineBHydrofluoric Acid 100%N/ADimethyl FormamideDHydrofluoric Acid 20%N/AEpsom Salts (Magnesium Sulfate)AHydrofluoric Acid 50%N/AEthanolAHydrofluoric Acid 75%N/AEthyl AcetateDHydrogen Peroxide 100%CEthylene ChlorideBHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorideCHydrogen Peroxide 30%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene OxideDIsopropyl AcetateBEthylene OxideDIsopropyl AcetateCFerric ChlorideAKeroseneA	Cyclohexane	А	Glycerin	А
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Dimethyl AnilineBHydrofluoric Acid 100%N/ADimethyl FormamideDHydrofluoric Acid 20%N/AEpsom Salts (Magnesium Sulfate)AHydrofluoric Acid 50%N/AEthanolAHydrofluoric Acid 75%N/AEthyl AcetateDHydrogen Peroxide 10%CEthyl ChlorideAHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene GlycolAIsopropyl AcetateBEthylene GlycolAIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA	Diethylamine	A	Hydrochloric Acid 20%	D
Dimethyl FormamideDHydrofluoric Acid 20%N/AEpsom Salts (Magnesium Sulfate)AHydrofluoric Acid 50%N/AEthanolAHydrofluoric Acid 75%N/AEthyl AcetateDHydrogen Peroxide 10%CEthyl ChlorideAHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene GlycolAIsopropyl AcetateBEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA	Diethylene Glycol	A	Hydrochloric Acid 37%	D
Epsom Salts (Magnesium Sulfate)AHydrofluoric Acid 50%N/AEthanolAHydrofluoric Acid 75%N/AEthyl AcetateDHydrogen Peroxide 10%CEthyl ChlorideAHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA	Dimethyl Aniline	В	Hydrofluoric Acid 100%	N/A
EthanolAHydrofluoric Acid 75%N/AEthyl AcetateDHydrogen Peroxide 10%CEthyl ChlorideAHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA		D		N/A
Ethyl AcetateDHydrogen Peroxide 10%CEthyl ChlorideAHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA	Epsom Salts (Magnesium Sulfate)	А		N/A
Ethyl ChlorideAHydrogen Peroxide 100%DEthylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA	Ethanol	A		N/A
Ethylene ChlorideBHydrogen Peroxide 30%DEthylene ChlorohydrinDHydrogen Peroxide 50%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA		D		С
Ethylene ChlorohydrinDHydrogen Peroxide 50%DEthylene DichlorideCHydrogen Sulfide (aqua)CEthylene GlycolAIsopropyl AcetateBEthylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA		A		D
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Ethylene OxideDIsopropyl EtherCFatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA		C		С
Fatty AcidsN/AJet Fuel (JP3, JP4, JP5)CFerric ChlorideAKeroseneA				_
Ferric Chloride A Kerosene A				
		N/A		С
Ferric Nitrate A Ketones D				
	Ferric Nitrate	А	Ketones	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.

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

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

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Chemical Compatibility Disclaimer

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Sources

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