

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:** 

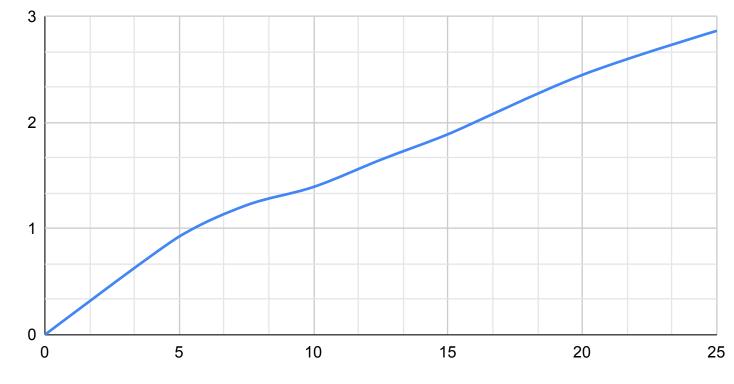
**MPV Inline Check Valve** 30% Glass Fill Nylon 0.020" Viton Natural Nylon 30% Glass Fill 22HSP Black Nylon 30% Glass Fill 22HSP 000040507

#### **Physical Properties**

Size and Weight: 1.550 Long 0.763 Wide, 3.09g Max Operating Tensile Stress: 40 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)

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

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



Test Pressure (psi)

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

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.

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

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

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

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

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

# Pneuline Supply, Inc. DATA SHEET

# MPV-5B-R530V020

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

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

Cher	nical Substance	Rating	Chemical Substance
Sodium	Acetate	D	Xylene
Sodium	Bicarbonate	А	Zinc Chloride
Sodium	Bisulfate	А	Zinc Sulfate
Sodium	Bisulfite	С	
Sodium	Carbonate	В	
Sodium	Chlorate	D	
Sodium	Chloride	Α	
Sodium	Hydroxide (20%)	В	
Sodium	Hydroxide (50%)	С	
Sodium	Hydroxide (80%)	С	
Sodium	Hypochlorite (less than 20%)	D	
Sodium	Peroxide	А	
Sodium	Sulfate	Α	
Sodium	Sulfide	Α	
Sodium	Thiosulfate (hypo)	В	
Stannic	Chloride	В	
Stearic	Acid	N/A	
Stoddar	d Solvent	А	
Sulfur D	vioxide (dry)	D	
Sulfuric	Acid (less than 10%)	С	
Sulfuric	Acid (10-75%)	D	
Tannic A	Acid	С	
Tetrach	loroethylene	А	
	drofuran	D	
Toluene	(Toluol)	А	
Tomato	Juice	В	
Trichlor	oethane	С	
Turpent	ine	В	
Urea		A	
Vinegar		С	
Water, A	Acid, Mine	В	
Water, I		В	
Water, I		A	
Water, S		Α	
Whiskey	v and Wines	А	

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.

Pneuline Supply, Inc. 2881 S 31st Ave Unit 2A Greeley, CO 80631 www.pneulinesupply.com (970) 714-1123 sales@pneulinesupply.com

Rating

A A

# 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.

#### 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/

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

