

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

# **Pneuline** Supply, Inc. DATA SHEET

# MPVC-4B-R530VFDA

**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:** 

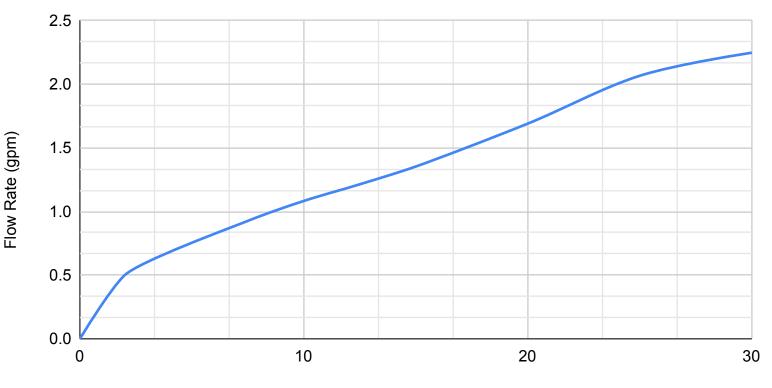
**MPVC** Inline Check Valve Cleanroom 30% Glass Fill Nylon 0.030" FDA Viton Natural Nylon 30% Glass Fill 22HSP Black Nylon 30% Glass Fill 22HSP 001020505

#### **Physical Properties**

Size and Weight: 1.530 Long 0.750 Wide, 3.44g Max Operating Tensile Stress: 20 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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<b>Chemical Substance</b> Acetaldehyde Acetamide Acetic Acid	Rating C D	<b>Chemical Substance</b> Barium Carbonate Barium Chloride Barium Hydroxide	Rating c A
Acetic Acid 20% Acetic Acid 80%	D D	Barium Nitrate Barium Sulfate	C
Acetic Acid, Glacial	B	Beer	A A
Acetic Anhydride	D	Benzaldehyde	D
Acetone	D	Benzene	А
Acetyl Chloride (dry)	В	Benzoic Acid	D
Acetylene	А	Benzol	D
Alcohols: Amyl	В	Bromine	D
Alcohols: Butyl	D	Butadiene	С
Alcohols: Ethyl	С	Butane	A
Alcohols: Isopropyl	D	Butanol (Butyl Alcohol)	В
Alcohols: Methyl Aluminum Chloride 20%	D D	Buttermilk Butyl Amine	B D
Aluminum Hydroxide	B	Butyl acetate	D
Aluminum Nitrate	A	Butyric Acid	C
Aluminum Potassium Sulfate 10%	D	Calcium Bisulfite	В
Aluminum Potassium Sulfate 100%	D	Calcium Carbonate	A
Aluminum Sulfate	A	Calcium Hydroxide	A
Amines	D	Calcium Hypochlorite	D
Ammonia 10%	D	Calcium Nitrate	А
Ammonia, anhydrous	D	Calcium Sulfate	D
Ammonia, liquid	D	Carbolic Acid (Phenol)	D
Ammonium Chloride	В	Carbon Disulfide	В
Ammonium Hydroxide	С	Carbon Tetrachloride	D
Ammonium Phosphate, Dibasic	D	Carbonic Acid	A
Ammonium Sulfate	D	Chlorine (dry)	D
Amyl Acetate	D	Chlorine Water	С
Amyl Alcohol	В	Chlorine, Anhydrous Liquid	N/A
Aniline	С	Chloroacetic Acid	D
Aqua Regia (80% HCl, 20% HNO3) Arsenic Acid	D	Chlorobenzene (Mono) Chloroform	D
Arsenic Acid Asphalt	C	Chlorosulfonic Acid	A
Aspilat	~	Chiorosultonic Aciu	U

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

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

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Water, DistilledBWater, FreshAWater, SaltA	Vinegar	С	
Water, DistilledBWater, FreshAWater, SaltA		В	
Water, Fresh A Water, Salt A		В	
Water, Salt A		A	
		А	
	Whiskey and Wines	А	

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Rating

A A

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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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