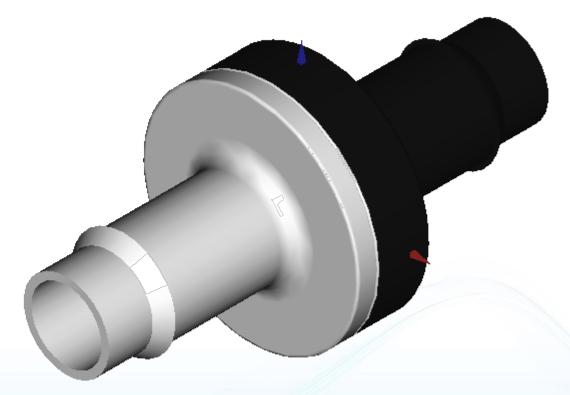
• Pneuline Supply, Inc. DATA SHEET MPV-5B-AK



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Pneuline Supply, Inc. **DATA SHEET** MPV-5B-AK

Product Series: Product Type: Housing Material: Diaphragm Material: Inlet: **Outlet:** Max Operating Temp: 230.00°F / 110.00°C Min Operating Temp: -40.00°F / -40.00°C **Product SKU:**

MPV Inline Check Valve Acetal 0.030" Kalrez Natural Acetal Celcon M90 Black Acetal Celcon M90 000040203

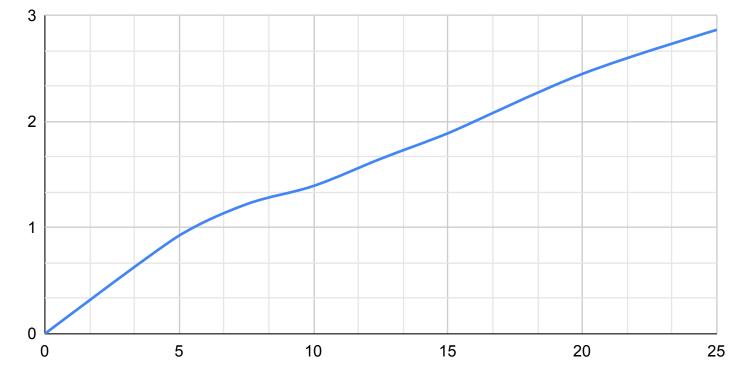
Physical Properties

Size and Weight: 1.550 Long 0.763 Wide, 3.24g Max Operating Tensile Stress: 40 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)

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

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

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

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

Chemical Substance Ra

Xylene Zinc Chloride Zinc Sulfate

ati	ng
Α	
С	
С	

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A

А

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Water, Salt

Whiskey and Wines

Pneuline Supply, Inc. DATA SHEET MPV-5B-AK

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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