


## DIAPHRAGM CHECK VALVES

Check Valves: Diaphragm Check Valves
Pneuline 100% Leak Tests all MPV Series Check Valves in-house.

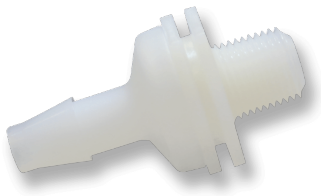


## VC-IG SERIES

The VC-IG Series Plastic Check Valves have housing molded of Polysulfone or Polypropylene with either a POM or Silicone disc. The cracking pressure for these units is .8 $H^2O$ or .028 psi. The 10-32 inch units have a cracking pressure of 10 $H^2O$ or .36 psi. These check valves were made to be used in low-pressure applications. Reverse flow at 1 psi is available as follows: Polypropylene with Silicone: .20 SCIM, Polysulfone with POM 2.98 SCIM, Polysulfone with POM 1.00 SCIM R2, Polysulfone with Silicone .20 SCIM, and Polysulfone with Silicone .06 SCIM 10-32 inch Female ports only. Maximum pressure is 10 psi excluding the 10-32 inch port which is rated for 75 psi.

| SKU | Description |
|---|---|
| VC-IG-1032F-PSS | 1032 Female PS Silicon Check Valve |
| VC-IG-1B-PPS | 1/16 Barb PP Silicone Check Valve |
| VC-IG-1B-PSC R2 | 1/16 Barb PS Celcon® Check Valve |
| VC-IG-1B-PSS | 1/16 Barb PS Silicone Check Valve |
| VC-IG-1S-PPS | 1/16 Shaft PP Silicone Check Valve |
| VC-IG-1S-PSC | 1/16 Shaft PS Celcon® Check Valve |
| VC-IG-1S-PSC R2 | 1/16 Shaft PS Celcon® Check Valve |
| VC-IG-1S-PSS | 1/16 Shaft PS Silicone Check Valve |
| VC-IG-2B-PPS | 1/8 Barb PP Silicone Check Valve |
| VC-IG-2B-PSC R2 | 1/8 Barb PS Celcon® Check Valve |
| VC-IG-2B-PSS | 1/8 Barb PS Silicone Check Valve |

## CMKV SERIES



The CMKV Series Plastic Check Valves are 1/8 inch Male NPT by Barb sizes of 1/8 inch, 3/16 inch, 1/4 inch, and 3/8 inch. The flow is from thread to barb. Material / Disc combinations are available in PVDF with FKM, Polypropylene with FKM, Polycarbonate with Neoprene, Polycarbonate with Silicone, Nylon with Silicone, and Nylon with Neoprene.

| SKU | Description |
|---|---|
| CMKV-18B | 1/8 MNPT by 1/8 Barb PVDF/FKM Check Valve |
| CMKV-14B-NS | 1/8 MNPT by 1/4 Barb Nylon/Silicone Check Valve |
| CMKV-316B | 1/8 MNPT by 3/16 Barb PVDF/FKM Check Valve |

## BBCV SERIES



The BBCV Series Check Valve has a Male Slip Luer with 30 psi back pressure and 1/4 psi inlet cracking pressure. This series comes in ABS or Polycarbonate housing, both with Silicone Discs.

| SKU | Description |
|---|---|
| BBCV-MLFL-ABS | Male Luer by Female Luer ABS Check Valve .25 psi Crack |
| BBCV-MLFL-01-ABS | Male Luer by Female Luer ABS Check Valve .01 psi Crack |
| BBCV-MLML-ABS | Male Luer by Male Luer ABS Check Valve .25 psi Crack |

## CSP SERIES - POLYETHYLENE CHECK VALVES



The CSP Series Check Valves have a Polyethylene housing with a Neoprene disc for the 1/4-inch size and a Polyethylene disc for the 3/8-inch size. The maximum pressure for these check valves is 20 psi.

| SKU | Description |
|---|---|
| CSP-38 | 3/8 inch to 9/16 inch ID Polypropylene Check Valve |

## CIS SERIES



This is a non-barbed Check Valve with a white tubing port inlet and clear tubing port outlet. The body is made of Acrylic with a blue Silicone diaphragm.  This check valve is pressure-rated at 45 psi. The port sizes are both .130" and will accommodate 1/16" ID soft Silicone tubing as well as other tubing of 1/8" and 3/32" ID. It is manufactured in an ISO Class 8 Cleanroom and is Gamma, E-beam, and EtO sterilizable. This valve is made of Class VI approved materials, it is ultrasonically welded and is 100% inline tested for backflow and weld leaks.

| SKU | Description |
|---|---|
| CIS-6383 | Check Valve .130 port Acrylic/Silicone .29CP |



## MPV-L SERIES | MEDICAL GRADE LUER CHECK VALVES

Engineered for **critical medical and laboratory applications**, our **MPV Luer Series Medical Grade Plastic Check Valves** are **manufactured, assembled, and rigorously tested at 15 PSI in a certified Class 7 Cleanroom environment**, ensuring unmatched contamination control and reliability.

**Ultra-Pure, High-Performance Materials** Crafted from premium **Polypropylene, Polycarbonate, Radiation-Stable Polycarbonate, and Kynar® 720**, our check valves deliver **exceptional chemical resistance and durability** for demanding medical, pharmaceutical, and laboratory environments.

**Precision-Designed for Sterile Applications** Pre-packaged and produced under strict cleanroom conditions, these valves provide **consistent performance where purity matters most**.

**4 Main Connector Options**:

- Male Inlet Luer with Rotating Collar to Female Luer
- Male Inlet Rotating Collar to Male Rotating Collar
- Female Inlet Luer Lock to Female Luer Lock
- Female Inlet Luer Lock to Male Slip

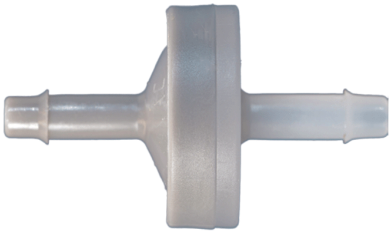
Barb to ***
**Diaphragm Options:** Silicone
**Flow Direction:** Inlet to Outlet

****Custom Options: These Luers can be manufactured to fit with any of our Barb Connectors on the opposing end.*
*Barb Size options: 1/8 inch, 3/16 inch, 1/4 inch, 5/16 inch, 3/8 inch*

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| SKU | Luers | Body Material | Diaphragm |
|---|---|---|---|
| MPV-FLL-BODY-DIAPHRAGM | IN: Female Luer OUT: Female Luer | Polycarbonate Polypropylene Kynar® | Silicone USP Class VI |
| MPV-MLLR-BODY-DIAPHRAGM | IN: Male Luer OUT: Male Luer w/Rotating Collar | Polycarbonate Polypropylene Kynar® | Silicone USP Class VI |
| MPV-FLL-MLLR-BODY-DIAPHRAGM | IN: Female Luer OUT: Male Luer w/ Rotating Collar | Polycarbonate Polypropylene Kynar® | Silicone USP Class VI |
| MPV-MLLR-FLL-BODY-DIAPHRAGM | IN: Male Luer Out: Female Luer | Polycarbonate Polypropylene Kynar® | Silicone USP Class VI |

**Cleanroom Class 8 Production & Manufacturing Available**



## MPV 2B SERIES

Engineered for reliability and performance, the MPV-2B Series delivers consistent flow control in a compact 1/8” barbed design. Each valve is precision-built and undergoes **100% leak-decay testing** in our controlled production environment to ensure dependable sealing and long-term durability.

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**Customizable Body Materials:** Choose the ideal resin for your application requirements:

- **Kynar® (PVDF)**
- **Nylon** *(glass-filled grade available)*
- **Acetal Celcon® M90**
- **Polycarbonate**
- **Polypropylene**

**Diaphragm Options** Optimize chemical compatibility, flexibility, and performance with a wide range of diaphragm materials:

- **EPDM**
- **Viton®**
- **Fluorosilicone**
- **Kalrez®**
- **Silicone USP Class VI**
- **FDA-grade Viton®**

**Tailored Engineering**

For specialized applications, we offer **custom molding** and fully customizable resin/diaphragm combinations. Our engineering team partners with you to develop precision-matched solutions that meet unique performance, regulatory, or environmental requirements.

**Built for Critical Environments**

Designed for purity, performance, and configurability, the MPV-2B Series provides exceptional quality and reliability for demanding applications across medical, laboratory, industrial, and high-purity systems.

***PDF Drawing***

**Note: Drawings may vary depending on the body material and diaphragm. This drawing is for reference only.**

***Flow and Crack Pressure Chart- Standard Flow***

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***Need more information or looking to tailor one of our valves for a specific application? Complete the form below and our team will promptly connect with you to discuss your requirements and ensure you get the right solution.***

Contact Form



## MPV 3B SERIES

Engineered for dependable performance, the MPV-3B Series provides reliable flow control in a compact **3/16” barbed** configuration. Each valve is precision-manufactured and undergoes **100% leak-decay testing** in our controlled production environment to ensure consistent sealing and long-term durability.

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**Customizable Body Materials**

Select the ideal resin to meet your application’s performance and compatibility needs:

- **Kynar® (PVDF)**
- **Nylon** *(glass-filled grade available)*
- **Acetal Celcon® M90**
- **Polycarbonate**
- **Polypropylene**

**Diaphragm Options**

Optimize chemical resistance, flexibility, and functional performance with a wide range of diaphragm materials:

- **EPDM**
- **Viton®**
- **Fluorosilicone**
- **Kalrez®**
- **Silicone USP Class VI**
- **FDA-grade Viton®**

**Tailored Engineering**

For unique or demanding applications, we offer **custom molding** and fully configurable resin/diaphragm combinations. Our engineering team collaborates with you to develop precision-matched solutions that meet specific performance, regulatory, or environmental requirements.

**Built for Critical Environments**

Designed for purity, performance, and customization, the MPV-3B Series delivers exceptional quality and reliability for medical, laboratory, industrial, and high-purity systems.

***PDF Drawing***

**Note: Drawings may vary depending on the body material and diaphragm. This drawing is for reference only.**

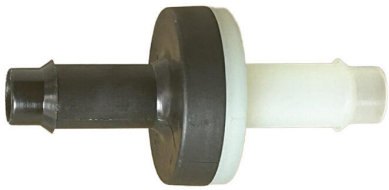
***Flow and Crack Pressure Chart - Standard Flow***

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## MPV 4B SERIES



Built for dependable performance, the MPV-4B Series provides reliable flow control in a robust 1/4” barbed configuration. Each valve is precision-engineered and undergoes 100% leak-decay testing in our controlled production environment to ensure consistent sealing, durability, and long-term reliability.

**Customizable Body Materials:** Select the ideal resin to meet your application’s performance, chemical compatibility, and environmental requirements:

- **Kynar® (PVDF)**
- **Nylon *(glass-filled grade available)***
- **Acetal Celcon® M90**
- **Polycarbonate**
- **Polypropylene**

**Diaphragm Options** Optimize flexibility, chemical resistance, and functional performance with a wide range of diaphragm materials:

- **EPDM**
- **Viton®**
- **Fluorosilicone**
- **Kalrez®**
- **Silicone USP Class VI**
- **FDA-grade Viton®**

**Tailored Engineering**

For specialized or demanding applications, we offer custom molding and fully configurable resin/diaphragm combinations. Our engineering team collaborates with you to develop precision-matched solutions that meet unique performance, regulatory, or environmental requirements.

**Built for Critical Environments**

Designed for purity, performance, and customization, the **MPV-4B Series** delivers exceptional quality and reliability for medical, laboratory, industrial, and high-purity fluid systems.

***PDF Drawing***

**Note: Drawings may vary depending on the body material and diaphragm. This drawing is for reference only.**

***Flow and Crack Pressure Chart - Standard Flow***

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## MPV 4BH SERIES



The MPV-4BH Series is engineered for applications requiring enhanced flow capacity without compromising sealing integrity. Featuring a 1/4” barbed connection and a **high-flow internal design**, this valve delivers superior throughput while maintaining reliable flow control. Every unit undergoes 100% leaked-decay testing in our controlled production environment to ensure consistent performance and long-term durability.

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**Customizable Body Materials:** choose from a wide range of engineering-grade resins to meet your system’s chemical, mechanical, and environmental requirements:

- **Kynar® (PVDF)**
- **Nylon *(glass-filled grade available)***
- **Acetal Celcon® M90**
- **Polycarbonate**
- **Polypropylene**

**Diaphragm Options: Select** the diaphragm material that best aligns with your application’s chemical compatibility and performance needs:

- **EPDM**
- **Viton®**
- **Fluorosilicone**
- **Kalrez®**
- **Silicone USP Class VI**
- **FDA-grade Viton**

**Tailored Engineering**

For specialized flow, compatibility, or regulatory requirements, we offer custom molding and fully configurable resin/diaphragm combinations. Our engineering team partners with you to develop precision-matched solutions optimized for your unique application.

**Built for Demanding, High-Flow Environments**

Designed for purity, performance, and elevated flow capacity, the MPV-4BH Series delivers exceptional reliability for medical devices, laboratory systems, industrial equipment, and high-purity fluid handling applications.

***PDF Drawing***

**Note: Drawings may vary depending on the body material and diaphragm. This drawing is for reference only.**

***Flow and Crack Pressure Chart - High Flow***

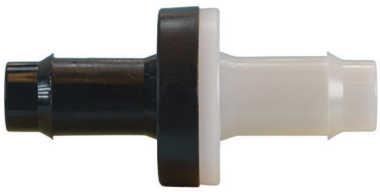
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## MPV 5B SERIES



The MPV-5B Series is designed for systems that demand **greater flow capacity** and consistent one-directional control. With its **5/16” barbed** connection and optimized high-flow internal geometry, this valve supports increased throughput while maintaining dependable sealing performance. Every unit is subjected to **100% leak-decay testing** within our controlled production environment to ensure reliability from the first cycle to the last.

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**Versatile Body Material Options:** Choose from a range of durable, engineering-grade resins to match your chemical and mechanical requirements:

- **Kynar® (PVDF)**
- **Nylon** *(glass-filled grade available)*
- **Acetal Celcon® M90**
- **Polycarbonate**
- **Polypropylene**

**Diaphragm Material Selections** Dial in the ideal balance of compatibility, flexibility, and performance with multiple diaphragm choices:

- **EPDM**
- **Viton®**
- **Fluorosilicone**
- **Kalrez®**

- **Silicone USP Class VI**
- **FDA-grade Viton®**

**Engineered for Customization**

For applications with unique flow, compatibility, or regulatory needs, we offer **custom molding** and fully configurable resin/diaphragm combinations. Our engineering team works closely with you to create solutions tailored to your system's exact requirements.

**Optimized for High-Demand Applications**

With its high-flow design, robust construction, and purity-focused materials, the MPV-5B Series is an excellent choice for medical devices, laboratory equipment, industrial systems, and high-purity fluid handling environments.

***PDF Drawing***

**Note: Drawings may vary depending on the body material and diaphragm. This drawing is for reference only.**

***Flow and Crack Pressure Chart - High Flow***

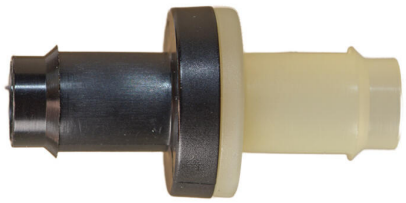
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## MPV 6B SERIES



The MPV-6B Series is built for systems that require **maximum flow capacity** paired with dependable one-directional control. Featuring a **3/8" barbed** connection and a high-flow internal architecture, this valve supports significantly increased throughput while maintaining tight, reliable sealing. Each unit is subjected to **100% leak-decay testing** in our controlled production environment to ensure long-term performance and consistency.

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**Durable Body Material Options:** choose from a range of high-performance resins engineered for chemical resistance, mechanical strength, and environmental durability:

- **Kynar® (PVDF)**
- **Nylon** *(glass-filled grade available)*
- **Acetal Celcon® M90**
- **Polycarbonate**

- **Polypropylene**

**Diaphragm Material Options** Select the diaphragm material that best aligns with your application's compatibility and performance needs:

- **EPDM**
- **Viton®**
- **Fluorosilicone**
- **Kalrez®**
- **Silicone USP Class VI**
- **FDA-grade Viton®**

**Engineered for Customization**

For applications with unique flow, compatibility, or regulatory requirements, we offer **custom molding** and fully configurable resin/diaphragm combinations. Our engineering team works closely with you to develop solutions tailored to your system's exact specifications.

**Optimized for High-Demand, High-Flow Applications**

With its enlarged barb size, high-flow design, and purity-focused construction, the MPV-6B Series is ideal for medical devices, laboratory systems, industrial equipment, and high-purity fluid handling environments where elevated flow rates are essential.

***PDF Drawing***

**Note: Drawings may vary depending on the body material and diaphragm. This drawing is for reference only.**

***Flow and Crack Pressure Chart- High Flow***

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