

# Check Valves

Medical Grade

## Available in Single, Double, and Custom Configurations

Check valves control the flow direction of fluids and are available in various configurations. Single-configuration check valves are designed to prevent back flow in only one direction. Double-configuration check valves control flow bi-directionally by diverting fluid to multiple outlets consecutively. Single-configuration check valves are normally closed, requiring positive pressure differential to allow flow, and are available with various termination options including luer, bond sockets, bond posts, and barbed designs. There are several opening pressure ratings from precision near zero to the anti-siphon valves which have higher opening pressures to prevent gravity induced flow. Medical-grade check valves are made with USP Class VI materials deemed safe for use with the human body. Medical-grade check valves reduce the risk of contamination, allow seamless priming, and offer higher flow rates. They are ideal for medical device designers focused on infusion, drainage and irrigation applications.



### Features & Benefits

- Designed to prevent back flow
- Materials meet USP Class VI & ISO 10993 criteria
- Air entrapment readily alleviated during priming
- Operate in any spatial orientation
- Low cracking pressures
- Barbed check valves with 3/32" (2.4 mm) & 1/8" (3.2 mm) single barb ends
- Bi-directional check valves for clean fluid transfer from supply to site
- Custom configurations

### Specifications





- **Materials:**  
Housing: MABS, SAN, & Polycarbonate  
Diaphragm: Silicone
- **Sterilization:**  
Gamma radiation stable & EtO compatible
- **Single-Configuration Check Valves:**  
Anti-Siphon Check Valves  
High-Flow Check Valves  
One-Way Check Valves  
Barbed Check Valves
- **Double-Configuration Check Valves:**  
Double-Configuration Check Valves




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## Single-Configuration Check Valves

Configuration	Part Image	Cracking Pressure	Maximum Back Pressure	Flow Rate
Anti-Siphon Check Valves		1.450 psig - 4.351 psig (100 mb - 300 mb)	73.000 psig - 304.500 psig (5 bar - 21 bar)	110 ml/min - 200 ml/min
High-Flow Check Valves		≤ .290 psig (20 mb)	14.500 psig (1 bar)	With water at a pressure of 100 mb; ≥ 1000 ml/min  With water at a pressure of 1 bar; ≥ 3000 ml/min
One-Way Check Valves		≤ .174 psig (12 mb)	73.000 psig - 116.030 psig (5 bar - 8 bar)	90 ml/min - 150 ml/min
Barbed Check Valves		≤ .087 psig (6 mb)	73.000 psig (5 bar)	≥ 150 ml/min

## Double-Configuration Check Valves

Configuration	Part Image	Cracking Pressure	Available Inlet Ports
Double-Configuration Check Valves		2 psi - 5 psi (0.14 bar - 0.34 bar)	Female luer aspiration port Male luer discharge port

## Custom-Configuration Check Valves

Nordson MEDICAL is your single-source partner for custom-configuration check valves. We can work with your team from the original idea through production scale-up. From customized connecting geometry to valve performance characteristics, we can tailor our check valves to meet your specific requirements in the most demanding applications.

Call the Nordson MEDICAL customer service team at **1-888-404-5837** today, and discover how partnering with Nordson MEDICAL delivers world-class precision.

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