

# Valves

## Product Information Guide



Your single project source from start to finish.

**B | BRAUN**  
SHARING EXPERTISE

## B. Braun OEM Division

### One source. Many options.

For more than 30 years, B. Braun has been an industry leader in the design and production of valves for a variety of medical device and pharmaceutical applications. We offer dozens of existing options, and have the experience and capabilities to provide custom valves. We can also integrate a valve into a custom set, device or kit that meets your unique requirements. When you choose B. Braun, you choose a partner that provides you with one source for your valve and final product needs.

#### Needle-Free Valves

Valves in this series are accessed with any male Luer, such as a syringe or IV adapter. The male adapter opens the valve and allows bi-directional flow. The valve automatically closes when the male Luer is removed, preventing the back flow of fluids.

*Suggested applications: For needle-free intermittent injection, aspiration, or infusion of fluids.*

#### CARESITE®

Designed to reduce catheter occlusions while preventing healthcare workers from accidental needlestick injuries, the CARESITE needleless connector features a clear housing that provides complete visibility of the fluid path. The LuerGuide design makes connection quicker with less effort while reducing the potential for slippage and touch contamination.

#### ULTRASITE®

A capless needle-free valve with male and female Luer lock connections, the ULTRASITE valve is easily accessed with a syringe or male Luer connection. The unique positive displacement design helps prevent fluid from being drawn back when the Luer taper is removed.

#### SAFSITE®

With proven performance since 1989, this bi-directional valve offers a safe and simple method of needle-free access using any standard Luer taper. Prevents back flow.



### Valves are just the beginning

In addition to our extensive valve line, B. Braun offers a variety of flow control products, including:

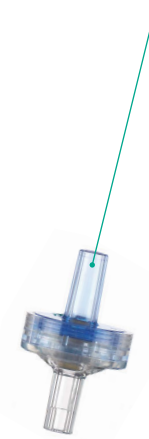
- Hemostatic Y-Connectors
- Hemostasis Valves
- Touhy Borst Adapters
- Stopcocks

Visit our website at [www.bbraunoem.com](http://www.bbraunoem.com), or contact a B. Braun representative for more details.

### Low Pressure Valves

Engineered to prevent back flow into primary IV container during piggyback hookup or bolus injection, these one-way, low pressure check valves operate with gravity/flow pressure for optimal shut-off performance.

*Suggested applications: Extension and primary administration sets.*



### Normally Closed Valves

Designed for the intermittent injection of fluids while preventing back flow, the normally closed one-way check valve opens automatically when pressure is applied. Standard, low and high pressure options available.

*Suggested applications: IV sets, pump sets, central venous catheters, extension sets, winged infusion sets, intermittent injection.*



### Dual Check Valves

Dual functioning check valves provide a closed system for the transfer of fluids from one container to another. Standard and high crack pressure versions enable aspiration through one port and injection out of another port.

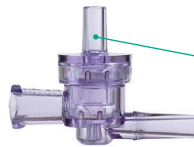
*Suggested applications: Aspiration or transfer of fluids in a closed system. When added to a Multiple Additive Transfer Set, ideal for transferring fluid from a bulk source into smaller volumes.*



### Aspiration Valves

These normally closed dual check valves allow fluid to be withdrawn under syringe pressure through the male luer top port. Valve facilitates aspiration of fluids to an off-line container. Ensures flow in one direction.

*Suggested applications: Use with a syringe for aspiration or transfer of aqueous solutions in small volumes.*



### TRAC™ Trumpet Valves

The TRAC valve manually opens a path for irrigation, then automatically closes when released. The locking version facilitates unattended continuous applications. Single-handed operation.

*Suggested applications: Procedures involving immediate and direct flushing. Ideal for surgical applications.*



### In-Line Valves

In-line back check valves feature a normally open flow control disk, allowing flow in one direction while preventing back flow.

*Suggested applications: IV lines, extension sets, and syringes to prevent back flow in fluid management systems.*



# B. Braun Valves

## Dual Check Valves

Back pressure: 30 PSI of water  
 Crack pressure: Combined valves provide a crack pressure of 1 PSI (27 inches of water)  
 Maximum pressure: 30 PSI  
 Materials: Polycarbonate clear  
 2 silicone disks  
 Lipid Resistant  
 Components do not contain natural rubber



S5401086SN



S5401070SN



S5401087SN



S5400727SN

## High Crack Pressure Dual Check Valves

Back pressure: 30 PSI of water  
 Crack pressure: Inlet Port - 1.5 to 5.0 PSI  
 Outlet Port - 8.5 to 22.0 PSI of water  
 Maximum pressure: 30 PSI  
 Materials: Body: Polycarbonate blue  
 Two Luer slips: Polycarbonate clear, 2 silicone disks  
 Lipid Resistant  
 Components do not contain natural rubber



S5401096SN



S5401097SN

## Aspiration Valves

Back pressure: 20 PSI of water  
 Crack pressure: Combined valves open between 15-145 inches of water  
 Maximum pressure: 20 PSI  
 Material: Polycarbonate clear; 2 silicone disks  
 Lipid Resistant  
 Components do not contain natural rubber



S5402511SN



S5402512SN

## In-Line Check Valves

Back pressure: 30 PSI of water  
 Crack pressure: Disk is normally open  
 Maximum pressure: 30 PSI of water  
 Materials: Body: ABS white; silicone disk  
 Flow Rate: Approx. 190 mL/ min. of water at 36 inch head height  
 Components do not contain natural rubber



S5402000N



S5402015LN



S5402020LN



S5402005N

Flow rate dependent on connected device.

Flow rates and pressures are approximate and are for reference only, not for specification. Some restrictions may apply.

## Low Pressure Check Valves

Back pressure: 30 PSI of water  
 Crack pressure: Disk is normally open  
 Materials: Body: ABS; polyisoprene disk  
 Flow Rate: Approx. 420 mL/ min. at 1 meter head height  
 Low Back Pressure: 6.75 inches of water maximum to reseal  
 High Back Pressure: 30 PSI of water  
 Components do not contain natural rubber



ABS Blue  
 ABS Clear

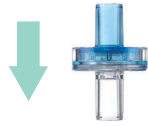
S5402700N



S5401008N

## Large Bore Low Pressure Normally Closed Valves

Back pressure: 30 PSI of water  
 Crack pressure: 22 inches of water maximum  
 Materials:  
 Top: ABS blue  
 Bottom: ABS clear; silicone disk  
 Flow Rate: Approx. 450 mL/ min. at 1 meter head height  
 Components do not contain natural rubber



S5401200N



S5401205N

## Normally Closed Check Valves

Back pressure: 45 PSI  
 Crack pressure: 1.5 PSI  
 Nominal Range: 1.5 to 5.0 PSI  
 Material: Polycarbonate clear; silicone disk  
 Flow Rate: Approx. 225 mL/ min. at 5 PSI  
 Components do not contain natural rubber



S5401004SN  
 Lipid Resistant



S5401016N  
 Lipid Resistant



S5401019N  
 Lipid Resistant



S5401020SN  
 Lipid Resistant

S5401072SN  
 Lipid Resistant with cap and cover



S5400908N  
 Material: Polyurethane clear  
 Components do not contain BPA

## Low Pressure Normally Closed Valves

Back pressure: 30 PSI of water  
 Crack pressure: 7.5 in. of water or less (inlet port)  
 Materials: Polycarbonate clear; silicone disk  
 Flow Rate: Approx. 420 mL/ min. at 1 meter head height  
 Low Back Pressure: 6.75 inches of water maximum to reseal  
 High Back Pressure: 30 PSI of water  
 Components do not contain natural rubber



S5401068SN



S5401071SN  
 Option: ABS

## High Pressure Normally Closed Valve

Back pressure: 400 PSI  
 Crack pressure: 1.5 PSI to 5.0 PSI  
 Maximum pressure: 400 PSI  
 Material: Top: Polycarbonate blue  
 Bottom: Polycarbonate clear; silicone disk  
 Flow Rate: Approx. 225 mL/ min. at 5 PSI  
 Lipid Resistant  
 Components do not contain natural rubber



S5401033SN

Flow rate dependent on connected device.  
 Flow rates and pressures are approximate and are for reference only, not for specification. Some restrictions may apply.

## CARESITE®\*

### Needle-free Valve

Back pressure: 45 PSI of water  
 Maximum pressure: 300 PSI  
 Materials: Body: Polycarbonate clear  
 Luer fitting: Polycarbonate clear  
 Self-lube silicone elastomer piston  
 Flow Rate: 148-208 mL/min.(9-12 L/hr)  
 Negative Pressure: Opens at 634 mmHg  
 Lipid Resistant  
 Components do not contain natural rubber



S5403020N

\* Limited availability. Please contact a B. Braun OEM representative for more information.

## Normally Closed Manifolds

Material: Polycarbonate clear; two silicone disks  
 Components do not contain natural rubber



S5401130S



S5401131S

Polycarbonate SPIN-LOCK® collar

Material: Polycarbonate clear; three silicone disks  
 Components do not contain natural rubber



S5401140S



S5401141S

Polycarbonate SPIN-LOCK collar

Flow rate dependent on connected device.

Flow rates and pressures are approximate and are for reference only, not for specification. Some restrictions may apply.

## SAFSITE®

### Needle-free Valves

Back pressure: 45 PSI of water  
 Materials: Body: Polycarbonate clear, silicone disk  
 Valve Plunger: Polycarbonate blue  
 Cap (when included): H. D. Polyethylene blue  
 Flow Rate: Approx. 325 mL/ min. at 1 meter head height  
 Negative Pressure: 284 mmHG; valve opens automatically  
 Lipid Resistant  
 Components do not contain natural rubber



S5401014SN



S5401010SN



S5401036SN  
 S5401027SN  
 with cap



S5401113

S5401103N  
 with cap



S5401118N  
 with cap



S5401018  
 Luer slip  
 compatible



S5401013N  
 Luer lock  
 with cap



S5401109  
 with cap



S5401108  
 S5401057N  
 with cap

## ULTRASITE® Needle-free Valves

Back pressure: 45 PSI of water  
 Maximum pressure: 300 PSI  
 Materials: Body: Polycarbonate white  
 Luer fitting: Polycarbonate clear; Stainless steel spring  
 Flow Rate: 175-200 mL/min.  
 Negative Pressure: opens at 634 mmHg  
 Lipid Resistant  
 Components do not contain natural rubber



S5403040N

S5403050  
with cover



S5403005N  
Luer Slip compatible

S5403015N  
Luer Slip compatible  
with cover

Back pressure: 45 PSI of water  
 Maximum pressure: 45 PSI  
 Materials: Body: Polycarbonate white  
 Luer fitting: Polycarbonate clear  
 Stainless steel spring  
 Flow Rate: 175-200 mL/min.  
 Negative Pressure: Opens at 634 mmHg  
 Lipid Resistant  
 Components do not contain natural rubber



S5403001N

S5403006N  
Luer Slip compatible

## TRAC™ Valves



S5402597N

Back pressure: 30 PSI of water  
 Materials:  
 Body: Polycarbonate white  
 Plunger: Polycarbonate blue  
 Plunger Tip: Santoprene  
 Stainless Steel Spring  
 Flow Rate: Approx. > 48 mL/min.  
 at 1 meter head of saline pressure  
 Force Required to Depress Button: < or equal to 3 pounds  
 Internal Hyrostatic Pressure: 30 PSI  
 Components do not contain natural rubber



S5402601N

Back pressure: 30 PSI of water  
 Materials:  
 Body: Polycarbonate white  
 Plunger: Polycarbonate white  
 Plunger Tip: Santoprene  
 Stainless Steel Spring  
 Flow Rate: Approx. > 48 mL/min.  
 at 1 meter head of saline pressure  
 Force Required to Depress Button: < or equal to 3 pounds  
 Internal Hyrostatic Pressure: 30 PSI  
 Components do not contain natural rubber



S5402630N

Back pressure: 30 PSI of water  
 Materials:  
 Body: Polycarbonate clear  
 Plunger: Polycarbonate blue  
 Plunger Tip: Santoprene  
 Stainless Steel Spring  
 Flow Rate: Approx. > 48 mL/min.  
 at 1 meter head of saline pressure  
 Force Required to Depress Button: < or equal to 3 pounds  
 Internal Hyrostatic Pressure: 30 PSI  
 Components do not contain natural rubber



S5402610N

Maximum pressure: 30 PSI  
 Materials:  
 Body: Polycarbonate white  
 Plunger: Polycarbonate white  
 Plunger Tip: Santoprene  
 Two seals: EPDM  
 Stainless Steel Spring  
 Flow Rate: Minimum flow channel of 0.150 inches allows  
 approximately 500 mL/min. at 1 meter head height of  
 0.9% saline pressure, Approx. > 48 nL/min.  
 at 1 meter head of saline pressure  
 Water Pressure: 30 PSI, static  
 Components do not contain natural rubber

Flow rate dependent on connected device.

Flow rates and pressures are approximate and are for reference only, not for specification. Some restrictions may apply.

# Your Complete Outsourcing Partner

## Your Source for Disposable Procedure Kits and Devices

As part of a 172-year-old company with over two dozen production sites worldwide, B. Braun OEM Division has the capabilities and expertise to turn your idea into a finished sterile product or kit. Our broad range of product experience covers a variety of applications and markets.

When you work with B. Braun, you have access to hundreds of existing options, which can help accelerate development time. Whether you're looking for a standard or modified product or a complete custom design, leverage our product expertise and complete capabilities to find a solution that meets your needs.

### Services

- Project Management
- Design and Development
- Molding and Extrusion
- Assembly
- Printing and Packaging
- Sterilization
- Quality and Regulatory
- Laboratory Services

### Products

- Fluid Administration
- Custom Kits
- Valves
- Admixture
- Catheters
- Interventional

For more information, contact your B. Braun OEM Sales Representative, or call **866-8-BBRAUN**.



[www.bbraunoem.com](http://www.bbraunoem.com)