Marquis® Series Stopcocks

Merit Medical’s Marquis® Stopcocks provide leak proof assurance during dynamic applications—ideal for high pressure situations whether using saline, contrast, or other fluids.

Handle:
Acetal

Body Material:
Polycarbonate

H4RRP
FEATURES & BENEFITS

Shark Fin Handle | Unique, easy-to-grip and turn
Extended Port Length | Easy visualization of fluid & air — no interference with handles
Lumen Clarity | Easy identification of bubbles
Variety of Configurations | Choice of directions, pressures, slip, fixed, swivel, or rotator luers
Low Torque | Easy to turn handles
Ultra High Pressure | Up to 1200 psi configurations available

CONFIGURATION SAMPLES

Fixed Male Luer, 1200 psi
U1FLP

Right Rotating Male Luer, 1050 psi
H1RP

Slip Luer, 500 psi
M1SLP

Fixed Male Luer, 200 psi
S1FLP

Right Rotating Male Luer, 1200 psi
U3RRP

Slip Luer, 1050 psi
H3SLP

Left Rotating Male Luer, 500 psi
M3RLP

Swivel Nut, 200 psi
S3SNP

CUSTOMIZING
Handle colors, custom printing, bulk non-sterile, or sterile/private labeled.

Marquis® Series Stopcocks
For a complete list of part numbers, visit
wwwMeritOEM.com/stopcocks
Hemostasis Valves & Y-Adapters

Merit Medical’s hemostasis valves and Y-adapters are used to seal off and minimize fluid loss during interventional and diagnostic procedures.

Valve Material: Silicone

Body Material: Polycarbonate

Seal Material: EPDM

Flush Port

Airless Rotator
FEAT U R E S & B E N E F I T S

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cap stop mechanism</td>
<td>Prevents cap separation from body when fully opened</td>
</tr>
<tr>
<td>From fully closed to 9 French</td>
<td>Accepts wide range of devices</td>
</tr>
<tr>
<td>Cap and seal engagement options</td>
<td>Choice of push-pull or twist</td>
</tr>
<tr>
<td>Proprietary valve technology</td>
<td>Leak-proof seal</td>
</tr>
</tbody>
</table>

SAMPLE PRODUCTS

Access-9™ Large Bore Hemostasis Valve
500366002

Passage® Hemostasis Valve
500066

Honor® Hemostasis Valve
580195001

MBA™ Large Bore Dual Seal Hemostasis Valve
500981002

Large Bore Hemostasis Valve with 12” PVC Tubing Extension
563010001

CUSTOMIZING

Flush port tubing lengths, connectors, bulk non-sterile, or sterile/private labeled.

Hemostasis Valves & Y-Adapters
For a complete list of part numbers, visit www.MeritOEM.com/hemostasis-valves
Tuohy-Borst and High Pressure Flow Control Switch

Merit Medical’s FLO 30™ Tuohy-Borst is a single-use, proprietary Tuohy-Borst adapter which provides a leak-proof seal during interventional and diagnostic procedures. Merit Medical’s High Pressure Flow Control Switch can be used with any application that involves liquid flow and requires inline shut off capability.

- **Cap Material:** Polycarbonate
- **Valve Material:** Silicone
- **Body Material:** Polycarbonate
- **Washer Material:** PTFE
- **Valve:** Silicone
- **Slider Switch:** Acetal
- **Collar:** ABS

**FLO30P**

**702211001**
TUOHY-BORST FEATURES & BENEFITS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 3 rotations to seal valve</td>
<td>Rapid engagement of seal</td>
</tr>
<tr>
<td>Cap stop mechanism</td>
<td>Prevents cap separation from body when fully opened</td>
</tr>
<tr>
<td>From fully closed to 9 French</td>
<td>Accepts wide range of devices</td>
</tr>
<tr>
<td>Proprietary valve technology</td>
<td>Leak-proof seal</td>
</tr>
</tbody>
</table>

CUSTOMIZING

Bulk non-sterile or sterile/private labeled.

Tuohy-Borst

Inner Lumen: 9F (.118”)
Luer: Fixed
FLO30P

A complete list of Tuohy-Borst part numbers and specifications can be found at www.MeritOEM.com/tuohy-borst

HIGH PRESSURE FLOW CONTROL SWITCH FEATURES & BENEFITS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audible Switch</td>
<td>Ensures ease of use and confirmation of Open/Close</td>
</tr>
<tr>
<td>High Pressure</td>
<td>Capable of pressures up to 1200 psi in dynamic (ON) applications</td>
</tr>
<tr>
<td>On/Off Slider Switch</td>
<td>One-handed actuation</td>
</tr>
</tbody>
</table>

Inline Flow Control Switch with ON/OFF Slider
702211001

High Pressure Flow Control Switch

For a complete list of Touhy Borst part numbers, visit www.MeritOEM.com/flow-control-switch
Hemostasis Valve Adapters

Merit Medical’s HVA technology is the result of extensive R&D investment in Merit Medical’s Prelude Introducer Sheath platform.

- **Cap Material:** Polycarbonate
- **Valve Material:** Silicone
- **Handle Material:** Acetal

Adapter with Stopcock Handle
Male with Swivel Luer
French Size: 8F or Smaller

501744001
### Features & Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customize</td>
<td>Customizable tube lengths and colors</td>
</tr>
<tr>
<td>DEHP-Free</td>
<td>Adheres to current standards</td>
</tr>
<tr>
<td>Patented Valve Technology</td>
<td>For minimal leaks</td>
</tr>
</tbody>
</table>

### Hemostasis Valve Adapters

For a complete list of part numbers, visit wwwMeritOEM.com/hemostasis-valve-adapters

- **Inner Lumen: 0.114”**
  - Blue
    - Part Number: 501744001
  - Green
    - Part Number: 502017001
  - Orange
    - Part Number: 502145001
  - Green with clear body
    - Part Number: 502191001
  - Gray
    - Part Number: 502312001

- **Inner Lumen: 0.058”**
  - Red (available up to 4)
    - Part Number: 501798001
Check Relief Valves

Merit Medical’s high performance Check Relief Valves are available for a variety of fluid management applications.

Inlet crack pressure
48 - 72 inches of water

Outlet 200 and 500 psi configurations

Control port

563618001
FEATURES & BENEFITS

<table>
<thead>
<tr>
<th>Material</th>
<th>Polycarbonate with silicone valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>200 psi &amp; 500 psi available</td>
</tr>
<tr>
<td>Customization</td>
<td>Custom ports and configurations available</td>
</tr>
</tbody>
</table>

SAMPLE PRODUCTS

Small Bore Inlet, Fixed Male Luer Outlet, Female Luer Control Port
Back Pressure Rating: 200 psi
Crack Pressure Range: 1.6 to 4.5 psi
563511001

Small Bore Elbow Inlet, Large Bore Elbow at Outlet, Rotator Control Port
Back Pressure Rating: 200 psi
Crack Pressure Range: 1.6 to 4.5 psi
563618001

Large Bore Elbow Outlet Port, Rotator Control Port
Back Pressure Rating: 200 psi
Crack Pressure Range: 1.6 to 4.5 psi
563619001

Large Bore Inlet, Large Bore Outlet, Female Luer Control
Back Pressure Rating: 200 psi
Crack Pressure Range: 1.6 to 4.5 psi
563524001

High Pressure Inline CRV, Female - Control, Female - In, Swivel Nut, Male - Out
Back Pressure Rating: 500 psi
Crack Pressure Range: 1.6 to 4.5 psi
500012005

Inline CRV, Large Bore, Male Slip Luer
Back Pressure Rating: 200 psi
Crack Pressure Range: 1.6 to 4.5 psi
500012008

Check Relief Valves

For a complete list of part numbers, visit www.MeritOEM.com/check-relief-valves
Universal One-Step™ Valve

Merit Medical’s Universal One-Step Valve offers the unique feature of either needle or luer access.

**FEATURES & BENEFITS**

- **Valve Material:** Polyisoprene
- **Body Material:** Copolyester
- **Super Low Profile:** Less than 15 mm

- Accessed with either a Needle or a Luer
  - One valve replaces two
- Unrestricted Fluid Path
  - High flow rate
- Swabbable
  - Allows user to disinfect
- Fluid Path Control
  - Air tight seal before and after needle or luer removal
- Sterilization
  - EtO compatible

**Universal One-Step™ Valve**

For more information, visit

www.MeritOEM.com/universal-one-step-valve
Luer Activated Valves

Merit Medical’s Luer Activated Valves are designed to aspirate or inject fluids on demand. The proprietary valve facilitates multiple uses and, upon disconnection, does not require a dead-end cap to prevent leaking.

**FEATURES & BENEFITS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Silicone Valve</td>
<td>Provides leak proof, swabbable seal</td>
</tr>
<tr>
<td>ISO 10993</td>
<td>All materials are DEHP-free compliant and latex free</td>
</tr>
<tr>
<td>Material Bonding</td>
<td>Polycarbonate and copolyester materials for easy bonding</td>
</tr>
</tbody>
</table>

**ISO 594 Female luer injection site**

**Stem Seal Material:**

- Silicone

**Body Material:**

- Polycarbonate or Copolyester

**Male Luer Lock, PC**

- 701000001
- 702242001

**Tube End 3.7 mm, PC**

- 702243004

**Tube End 4.0 mm, PC**

- 701814001

**Bag Valve 6.8 mm OD, PC**

- 702240001

**Vial Adapter 13 mm, PC**

- 702244001

**Vial Adapter 20 mm, PC**

- 702244002

**Breakoff Valve 6.0 mm, PC**

- 702245001

**Breakoff Valve 6.6 mm, PC**

- 702245002

**Male Slip Luer, PC**

- 702241001

**Y-Port 4.0 mm, Copolyester**

- 702239001

**T-Port 6.8 mm ID, PC**

- 702236001

For a complete list of part numbers, visit www.MeritOEM.com/luer-activated-valves
Manifolds

Merit Medical Manifolds are known for their reliability, ease of use, and configuration for nearly every situation. Contact your Merit Medical OEM representative for samples that meet your unique needs.

- **Body Material:** Polycarbonate
- **Handle Material:** Acetal
- **Airless rotator or fixed luer**

204BN-R
### Features & Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shark Fin Handle</td>
<td>Easy to grip and turn</td>
</tr>
<tr>
<td>Low Torque</td>
<td>Less force required, reducing hand fatigue</td>
</tr>
<tr>
<td>Wide Variety</td>
<td>Various colors and handle configurations</td>
</tr>
<tr>
<td>On/Off</td>
<td>Handles in “On” or “Off” configurations</td>
</tr>
</tbody>
</table>

### Configuration Samples

- **200 psi, 1 Port**
  - Block Body
  - Right Port Orientation
  - Rotating Luer
  - **201BF-R**

- **200 psi, 3 Port**
  - Half Body
  - Right Port Orientation
  - Rotating Luer
  - **203HN-R**

- **200 psi, 3 Port**
  - Half Body
  - Left Port Orientation
  - Rotating Luer
  - **203HF-L**

- **500 psi, 2 Port**
  - Block Body
  - Left Port Orientation
  - Rotating Luer
  - **502BF-L**

- **Devos™**
  - 200 psi, 2 Port
  - Half Body
  - Right Port Orientation
  - Rotating Luer
  - **2V2HF-R**

- **500 psi, 3 Port**
  - Half Body
  - 6” Tubing Extension
  - **503HN-RX**

### Customizing

Custom colored handles and tubing options available.

Manifolds may not be available for all OEM applications.
Merit Medical Systems, Inc. (NASDAQ: MMSI) has been designing, manufacturing and marketing single-use medical devices to customers worldwide for over 25 years. Throughout its evolution to a successful global company, Merit has developed the organizational infrastructure required to succeed in a competitive, dynamic and highly regulated industry. Merit’s OEM customers benefit not just from Merit’s components and devices, but also from the organization that supports them.