

Tourniquet Systems

A Personal Focus. A Personalized Fit.



Tourniquet Capital Equipment

The goal of our dual port tourniquet systems has always been to reduce post-operative tourniquet pain for patients.

The newest addition to our tourniquet offerings, the A.T.S.® 5000, combines Personalized Pressure® Technology with new customizable user preferences to provide a personalized experience for patients and healthcare professionals without disrupting workflow.

Personalized Pressure Technology determines the minimum amount of tourniquet pressure required based on the patient's particular anatomy and can help OR Staff choose a more individual, often lower, tourniquet pressure.¹ One study demonstrated that applying lower tourniquet pressure resulted in less post-operative pain for patients.^{2*}

With brand new surgeon-centered features and upgrades to existing technologies, surgeons can now customize the device to their preferences while maintaining or simplifying their existing workflow.

Designed with surgeon preferences and patient outcomes in mind, the A.T.S. 5000 tourniquet system offers a way to truly differentiate and personalize the experience for both patient and provider.

Introducing EZ Method for Measuring Limb Occlusion Pressure (LOP)

The EZ method allows surgeons to perform LOP measurements with no additional sensor. The integrated barcode scanner automatically recognizes disposable dual-port cuffs identified as EZ LOP compatible by scanning the cuff's barcode. Without the need to utilize a non-sterile sensor, workflow is simplified.³ Additionally, EZ LOP offers the ability to preform the measurement closer to tourniquet cuff inflation.





A.T.S. 5000 Features

Protocols (1) - Allows for customization of pressure, time, LOP, safety margins** and deflation preferences.

Safety Margins (2)** - The A.T.S. 5000 considers anticipated changes in blood pressure during the procedure by adding an additional safety margin to the LOP value at the end of the LOP determination.

EZ LOP Barcode Scanner (3) - Automatically recognizes cuffs identified as EZ LOP Ready by scanning the cuff's barcode. The cuff details are displayed on the touchscreen for review.

Dual Port Technology (4) - One port is dedicated to inflating and deflating the cuff and the other is dedicated to monitoring pressure.

Distal LOP Sensor (5) - Identifies signal quality in 1-2 seconds and includes an on-sensor quality indicator plus an option for remote initiation of LOP measurement.

Surgeons can customize their preferences with Protocols

With just two touches on the home screen, surgeons can access Protocols and create their personalized profile. Pressure, time, LOP, safety margins** and deflation preferences can now be customized beyond the device's default settings.

Deflation Protocols offer two pre-programmed sequences of pressure regulation

Cyclic Deflation

Cycles between the inflated pressure setpoint and fully deflated setpoint states allowing a brief reperfusion of the limb and control of metabolites prior to the end of the procedure

Step Deflation

Decreases the cuff pressure by 50 mmHg until the cuff is fully deflated, which can allow for the surgeon to check for bleeding vessels prior to complete deflation

**The A.T.S. 5000 will take into account anticipated changes in blood pressure during the procedure by adding an additional safety margin to the LOP value at the end of the LOP determination. "Custom" safety margins can be user-selectable in the protocols between 50 mmHg and 100 mmHg.



A.T.S. 5000 Tourniquet
w/ Hoses 60500010100



A.T.S. 2200 Tourniquet
w/ Hoses 60220010100

System Features and Benefits

	Zimmer A.T.S. 5000	Zimmer A.T.S. 2200
Number of Ports	Dual Port	Single Port
Number of Potential Cuffs	Dual Cuff	Dual Cuff
Mounting Options	Table or Pole Mount	Table or Pole Mount
Battery Type and Life	Lithium Ion 6 hrs	Lithium Ion 6 hrs
User Interface	Touchscreen	Touchscreen
International Alarm Standard 60601-1-8	Compliant	Compliant
Display	10.1" Color	7.0" Color
Minimum/Maximum Pressure	20/600 mmHg	50/600 mmHg
Pressure Accuracy	±3 mmHg (20–600 mmHg)	±4 mmHg (50-600 mmHg)
Limb Occlusion Pressure (LOP) ▼ Allows for patient specific pressure, which allows for the minimum pressure to be used.	Yes	No
Line Occlusion Detection (Acoustic Reflectometry) ▼ A kinked pneumatic tube can prevent an inflated cuff from deflating, resulting in unintentional tourniquet pressure. This alarm alerts OR staff that there is an occlusion in the line to the cuff.	Yes	Yes
Cuff Alert ▼ If OR staff tries to turn off the device and there is still pressure in the cuff, OR staff will be alerted. This ensures that an inflated cuff is not unintentionally left on a patient.	Yes	Yes
Automatic IVRA Cuff Lock Out ▼ If both cuffs are inflated, users are warned before deflating the second cuff. This takes the guess work out of IVRA procedures and potentially deflating both cuffs simultaneously. Additionally, the cuffs will stay inflated in the event of loss of both A/C and back-up battery power to the tourniquet machine.	Yes	Yes
Advanced Leak Detection ▼ Monitors the cuff and hoses for minor variations intraoperatively with the intention of reporting potential cuff/hose leaks. The machine will automatically maintain the pressure set point.	Yes	Yes
Pre-Op Cuff Test ▼ Checks for cuff leaks prior to use to avoid putting a new cuff on a patient in the middle of a procedure.	Yes	Yes

▼ Proprietary Safety Feature

Disposable Contour Cuffs

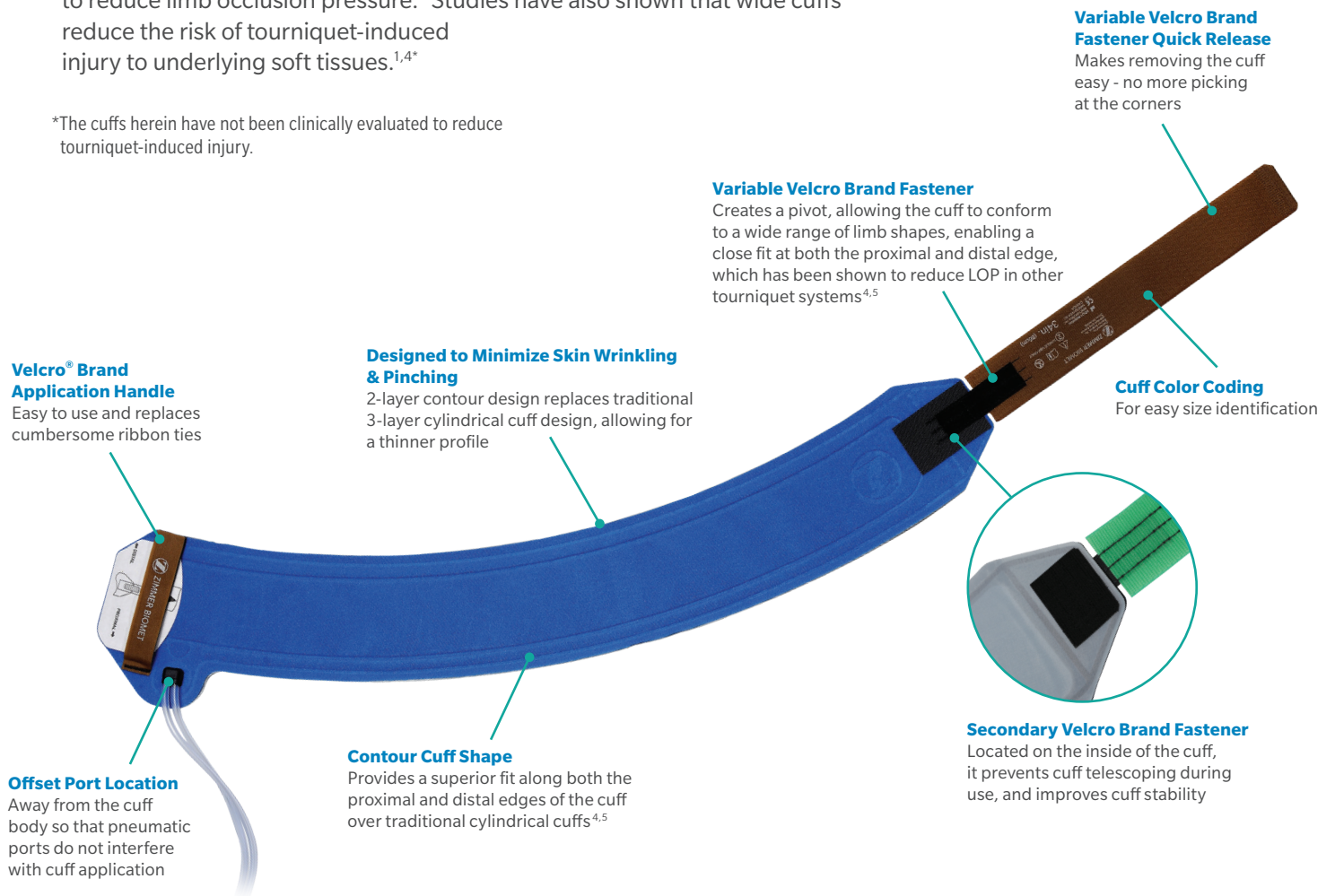
Shaping the Future of Tourniquet Care

Your patients come in all shapes and sizes, shouldn't your tourniquet cuff?

Disposable contour cuffs have been proven to provide a superior fit to tapered limbs over traditional cylindrical cuffs.⁴

Previous studies have shown that wide contoured tourniquet cuffs occlude flow at lower pressures than narrow cuffs.^{1,4} For tapered limbs, contouring the cuff to match the conical shape of the limb has been shown to reduce limb occlusion pressure.⁴ Studies have also shown that wide cuffs reduce the risk of tourniquet-induced injury to underlying soft tissues.^{1,4*}

*The cuffs herein have not been clinically evaluated to reduce tourniquet-induced injury.



Designed for comfortable, repeated use, Zimmer Biomet also offers reusable contour cuffs.

Cylindrical Cuffs and Cuff Sleeves

Reusable and Disposable Cylindrical Cuffs

These durable cuffs are designed for performance and patient comfort. The wide variety of color-coded sizes makes it easy to meet even the most demanding procedural needs.

Zimmer Biomet disposable cuffs have been shown to have superior surface control than comparable disposable tourniquet cuffs.⁴ Studies have shown that greater surface contact potentially reduces tourniquet inflation pressure.^{6,7}

A.T.S. Cylindrical Disposable Cuffs



Cuff Sleeves

Specially designed to complement Zimmer Biomet cuffs and protect the patient from skin wrinkling and pinching

Our limb protection sleeves have been found to be more effective at eliminating wrinkles and pinches in the skin surface, as well as reducing the chance of folding or wrinkling of material under the cuff during application when compared to four-layer stockinette and conventional cast padding.⁸ All Zimmer Biomet protection sleeves are compatible with both cylindrical and contour cuffs.

Limb Protection Sleeves

Disposable, Sterile, Box of 10 Size

- 60-8000-008-00 8" (20 cm)
- 60-8000-012-00 12" (30 cm)
- 60-8000-018-00 18" (46 cm)
- 60-8000-024-00 24" (61 cm)
- 60-8000-030-00 30" (76 cm)
- 60-8000-034-00 34" (86 cm)
- 60-8000-042-00 42" (107 cm)

Reusable, Non-Sterile, Box of 10 Size

- 60-7910-001-00 X-SM Adult (8 cm)
- 60-7910-002-00 SM Adult (9 cm)
- 60-7920-001-00 Contour Arm Cuff Sleeve
- 60-7920-002-00 Contour Thigh Cuff Sleeve
- 60-7920-003-00 Contour Leg Cuff Sleeve



Ordering Information

Tourniquet Systems and Accessories

A.T.S. 5000TS with Hoses	60500010100
A.T.S. 5000TS with Cuffs and Hoses*	60500010200
A.T.S. 5000TS with Telescoping IV Pole and Cuffs	60500010700
A.T.S. 5000TS with Telescoping IV Pole Kit	60500010800
A.T.S.2200TS with Hoses	60220010100
A.T.S.2200TS with Cuffs and Hoses**	60220010200
A.T.S.2200 with Cuff Standard BSK Hose	60220010300
A.T.S.2200TS with Standard BSK and Hose	60220010400

Accessories

Dual Sterile Extension Hose with LUER Lock Connector, Box of 20	60181200100
Dual Sterile Extension Hose with PLC Connector, Box of 20	60181210100
Single Sterile Extension Hose with LUER Lock Connector, Box of 20	60400900100
Single Sterile Extension Hose With PLC Connector, Box of 20	60400910100
A.T.S. 2200 Hose, Red/WE, each	60279000100
A.T.S. 2200 Hose, Blue/W, each	60279000200
A.T.S. 1500/2000/3000/4000/5000 Dual Port Hose, Blue/W, Each	60401700100
A.T.S. 1500/2000/3000/4000/5000 Dual Port Hose, Red/W, Each	60401800100
CPC-TO-LUER Adaptors, Box of 4	60730010500
A.T.S. Dual Hose Retrofit Kit, Box of 2	60750010000
A.T.S. 500 Single Hose Retrofit Kit, Each	60760010000
Red Universal Hose Adapters, Box of 2	60760030000
Blue Universal Hose Adapters, Box of 2	60760040000
O-Rings For Tourniquet Cuff, Box of 25	61730800000
LOP Sensor Kit	60300010500
Tourniquet Accessory Basket	60190800100
Tourniquet Stand, Telescoping, with 28 Base	60402200100
Calibration Hose Accessory Kit (dual port)	60400011000
Calibration Hose Accessory Kit (single Port)	60220001455

Cuff Sleeves – Box of 10

8 in. Cuff Sleeve, Sterile	60800000800
12 in. Cuff Sleeve, Sterile	60800001200
18 in. Cuff Sleeve, Sterile	60800001800
24 in. Cuff Sleeve, Sterile	60800002400
30 in. Cuff Sleeve, Sterile	60800003000
34 in. Cuff Sleeve, Sterile	60800003400
42 in. Cuff Sleeve, Sterile	60800004200
Protective Sleeve/Contour Arm Cuff, Non-Sterile	60792000100
Protective Sleeve/Contour Thigh Cuff, Non-Sterile	60792000200
Protective Sleeve/Contour Leg Cuff, Non-Sterile	60792000300
Protective Sleeve/Extra-Small Adult, Non-sterile	60791000100
Protective Sleeve/ Small Adult, Non-sterile	60791000200

Disposable Cuffs – Box of 10

Contour Cuffs with Sleeves – Sterile (Dual Port, Single Bladder, PLC)

18 x 4.5 in. DPSB Disposable Contour Cuff ***	60797015300
24 x 4.5 in. DPSB Disposable Contour Cuff ***	60797015400
30 x 4.5 in. DPSB Disposable Contour Cuff ***	60797015500
34 x 4.5 in. DPSB Disposable Contour Cuff ***	60797015600
44 x 4.5 in. DPSB Disposable Contour Cuff ***	60797015700

*Includes Dual Port, Single Bladder Reusable Cylindrical Cuffs; Qty 1 of 8", 12", 18", 24", 30", 34", 42"

**Includes Single Port, Single Bladder Reusable Cylindrical Cuffs ; Qty 1 of 8",12", 18", 24", 30", 34", 42"

***Compatible with EZ LOP Method

Disposable Cuffs – Box of 10 (cont.)

Contour Cuffs with Sleeves – Sterile (Single Port, Single Bladder, PLC)

18 x 4.5 in. SPSB Disposable Contour Cuff ***	60797515300
24 x 4.5 in. SPSB Disposable Contour Cuff ***	60797515400
30 x 4.5 in. SPSB Disposable Contour Cuff ***	60797515500
34 x 4.5 in. SPSB Disposable Contour Cuff ***	60797515600
44 x 4.5 in. SPSB Disposable Contour Cuff ***	60797515700

Contour Cuffs – Sterile (Dual Port, Single Bladder, PLC)

18 x 4.5 in. DPSB Disposable Contour Cuff ***	60797010300
24 x 4.5 in. DPSB Disposable Contour Cuff ***	60797010400
30 x 4.5 in. DPSB Disposable Contour Cuff ***	60797010500
34 x 4.5 in. DPSB Disposable Contour Cuff ***	60797010600
44 x 4.5 in. DPSB Disposable Contour Cuff ***	60797010700

Contour Cuffs – Sterile (Single Port, Single Bladder, PLC)

18 x 4.5 in. SPSB Disposable Contour Cuff ***	60797510300
24 x 4.5 in. SPSB Disposable Contour Cuff ***	60797510400
30 x 4.5 in. SPSB Disposable Contour Cuff ***	60797510500
34 x 4.5 in. SPSB Disposable Contour Cuff ***	60797510600
44 x 4.5 in. SPSB Disposable Contour Cuff ***	60797510700

Cylindrical Cuffs with Sleeves – Sterile (Dual Port, Single Bladder, PLC)

8 x 2.75 in. DPSB Sterile Disposable Cuff PLC	60707015100
12 x 4.125 in. DPSB Sterile Disposable Cuff PLC	60707015200
18 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707015300
24 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707015400
30 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707015500
34 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707015600
42 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707015700

Cylindrical Cuffs with Sleeves – Sterile (Single Port, Single Bladder, PLC)

12 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707515200
18 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707515300
24 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707515400
30 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707515500
34 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707515600
42 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707515700

Cylindrical Cuffs with Sleeves – Sterile (Dual Port, Dual Bladder, PLC)

18 x 5.5 in. DPDB Sterile Disposable Cuff PLC ***	60708015200
24 x 5.5 in. DPDB Sterile Disposable Cuff PLC ***	60708015300

Cylindrical Cuffs – Sterile (Dual Port, Single Bladder, PLC)

8 x 2.75 in. DPSB Sterile Disposable Cuff PLC	60707010100
12 x 4.125 in. DPSB Sterile Disposable Cuff PLC	60707010200
18 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707010300
24 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707010400
30 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707010500
34 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707010600
42 x 4.125 in. DPSB Sterile Disposable Cuff PLC ***	60707010700

Cylindrical Cuffs – Sterile (Single Port, Single Bladder, PLC)

8 x 2.75 in. SPSB Sterile Disposable Cuff PLC	60707510100
12 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707510200
18 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707510300
24 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707510400
30 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707510500
34 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707510600
42 x 4.125 in. SPSB Sterile Disposable Cuff PLC	60707510700

Ordering Information (cont.)

Disposable Cuffs – Box of 10 (cont.)

Cylindrical Cuffs – Sterile (Dual Port, Dual Bladder, PLC)

12 x 5.5 in. DPDB Sterile Disposable Cuff PLC ***	60708010100
18 x 5.5 in. DPDB Sterile Disposable Cuff PLC ***	60708010200
24 x 5.5 in. DPDB Sterile Disposable Cuff PLC ***	60708010300

Cylindrical Cuffs – Sterile (Single Port, Dual Bladder, PLC)

12 x 5.5 in. SPDB Sterile Disposable Cuff PLC ***	60708510100
18 x 5.5 in. SPDB Sterile Disposable Cuff PLC ***	60708510200
24 x 5.5 in. SPDB Sterile Disposable Cuff PLC ***	60708510300

Cylindrical Cuffs with Sleeves – Sterile (Dual Port, Single Bladder, Luer Lock)

18 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707005300
34 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707005600

Cylindrical Cuffs with Sleeves – Sterile (Single Port, Single Bladder, Luer Lock)

8 x 2.75 in. SPSB Sterile Disposable Cuff Luer Lock	60707505100
12 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707505200
18 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707505300
24 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707505400
30 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707505500
34 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707505600

Cylindrical Cuffs – Sterile (Dual Port, Single Bladder, Luer Lock)

8 x 2.75 in. DPSB Sterile Disposable Cuff Luer Lock	60707000100
12 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock	60707000200
18 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707000300
24 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707000400
30 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707000500
34 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707000600
42 x 4.125 in. DPSB Sterile Disposable Cuff Luer Lock ***	60707000700

Cylindrical Cuffs – Sterile (Single Port, Single Bladder, Luer Lock)

8 x 2.75 in. SPSB Sterile Disposable Cuff Luer Lock	60707500100
12 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707500200
18 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707500300
24 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707500400
30 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707500500
34 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707500600
42 x 4.125 in. SPSB Sterile Disposable Cuff Luer Lock	60707500700

Cylindrical Cuffs – Sterile (Dual Port, Dual Bladder, Luer Lock)

12 x 5.5 in. DPDB Sterile Disposable Cuff Luer Lock	60708000100
18 x 5.5 in. DPDB Sterile Disposable Cuff Luer Lock ***	60708000200
24 x 5.5 in. DPDB Sterile Disposable Cuff Luer Lock ***	60708000300

Cylindrical Cuffs – Sterile (Single Port, Dual Bladder, Luer Lock)

12 x 5.5 in. SPDB Sterile Disposable Cuff Luer Lock	60708500100
18 x 5.5 in. SPDB Sterile Disposable Cuff Luer Lock ***	60708500200
24 x 5.5 in. SPDB Sterile Disposable Cuff Luer Lock ***	60708500300

Reusable Cuffs – Box of 1

Contour Cuffs with Sleeves – Non-Sterile (Dual Port, Single Bladder, PLC)

9 in. - 21 in. DPSB Reusable Contour Upper Limb Cuff	60745000200
12 in. - 30 in. DPSB Reusable Contour Thigh Cuff	60745000300
9 in. - 17 in. DPSB Reusable Contour Lower Leg Cuff	60745000400
30 in. - 39 in. DPSB Reusable Contour Cuff - XL	60750000800

Contour Cuffs with Sleeves – Non-Sterile (Single Port, Single Bladder, PLC)

9 in. - 21 in. SPSB Reusable Contour Upper Limb Cuff	60735000200
12 in. - 30 in. SPSB Reusable Contour Thigh Cuff	60735000300
9 in. - 17 in. SPSB Reusable Contour Lower Leg Cuff	60735000400
30 in. - 39 in. SPSB Reusable Contour Cuff - XL	60760000800

Contour Cuffs with Sleeves – Non-Sterile (Single Port, Dual Bladder, PLC)

9 in. - 21 in. SPDB Reusable Contour Upper Limb IVRA Cuff	60735001100
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Contour Cuffs With Sleeves – Non-Sterile (Dual Port, Dual Bladder, PLC)

9 in. - 21 in. DPDB Reusable Contour Upper Limb IVRA Cuff	60745001100
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Cylindrical Cuffs – Non-Sterile (Dual Port, Single Bladder, PLC)

8 x 2.75 in. DPSB A.T.S. Cylindrical Cuff	60750000100
12 x 4.125 in. DPSB A.T.S. Cylindrical Cuff	60750000200
18 x 4.125 in. DPSB A.T.S. Cylindrical Cuff	60750000300
24 x 4.125 in. DPSB A.T.S. Cylindrical Cuff	60750000400
30 x 4.125 in. DPSB A.T.S. Cylindrical Cuff	60750000500
34 x 4.125 in. DPSB A.T.S. Cylindrical Cuff	60750000600
42 x 4.125 in. DPSB A.T.S. Cylindrical Cuff	60750000700
14.9 x 3 in. DPSB Reusable Extra Small Adult Cuff	60810000100
17.7 x 3.5 in. DPSB Reusable Small Adult Cuff	60810000200

Cylindrical Cuffs – Non-Sterile (Single Port, Single Bladder, PLC)

8 x 2.75 in. SPSB A.T.S. Cylindrical Cuff	60760000100
12 x 4.125 in. SPSB A.T.S. Cylindrical Cuff	60760000200
18 x 4.125 in. SPSB A.T.S. Cylindrical Cuff	60760000300
24 x 4.125 in. SPSB A.T.S. Cylindrical Cuff	60760000400
30 x 4.125 in. SPSB A.T.S. Cylindrical Cuff	60760000500
34 x 4.125 in. SPSB A.T.S. Cylindrical Cuff	60760000600
42 x 4.125 in. SPSB A.T.S. Cylindrical Cuff	60760000700
14.9 x 3 in. SPSB Extra Small Adult Cuff	60800000100
17.7 x 3.5 in. SPSB Small Adult Cuff	60800000200

Cylindrical Cuffs – Non-Sterile (Single Port, Dual Bladder, PLC)

12 x 5.5 in. SPDB A.T.S. Cylindrical Cuff	60766600100
18 x 5.5 in. SPDB A.T.S. Cylindrical Cuff	60766600200
24 x 5.5 in. SPDB A.T.S. Cylindrical Cuff	60766600300

Cylindrical Cuffs – Non-Sterile (Dual Port, Dual Bladder, PLC)

12 x 5.5 in. DPDB A.T.S. Cylindrical Cuff	60755500100
18 x 5.5 in. DPDB A.T.S. Cylindrical Cuff	60755500200
24 x 5.5 in. DPDB A.T.S. Cylindrical Cuff	60755500300

***Compatible with EZ LOP Method





References

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4. Younger ASE, McEwen JA, Inkpen K. Wide contoured thigh cuffs and automated limb occlusion measurement allow lower tourniquet pressures. Clin Orthop. November 2004; (428):286-293
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6. Heston B. Tourniquet Pressure Mapping: Visually Analyzing Tourniquet Cuff Efficiency Using Tekscan Pressure Measuring. Report on file, Zimmer Surgical, Inc., Dover, OH 2010
7. AORN, recommended practices for use of the pneumatic tourniquet. In: Perioperative standards and recommended practices. 2014 ed. Denver, CO: AORN, Inc.; 2014. p 183-208
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Laboratory reports are not necessarily indicative of clinical performance.

Service and Warranty Programs

Do you have coverage on your Tourniquet capital equipment? Reach out to your Zimmer Biomet representative for more information.

Clinical Support

The Zimmer Biomet Clinical Excellence Team consists of Perioperative Nurses who provide product education, training and support for Tourniquet products. For more information about the Clinical Excellence Team please contact your Zimmer Biomet representative.

Contact your Zimmer Biomet representative or visit us at www.zimmerbiomet.com/surgical



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