

Tourniquet Systems

A Personal Focus, A Personalized Fit



Tourniquet Capital Equipment

No two patients are the same –

that's why our market leading tourniquet system, the A.T.S.[®] 4000, treats every patient with Personalized Pressure[®] Technology.

The A.T.S. 4000 strives to personalize pressure for the patient by delivering the minimum tourniquet pressure at a specific time, with a specific cuff, for a specific patient limb.

Personalized Pressure Technology can help OR Staff choose a more individual, often lower, cuff pressure. Lower tourniquet cuff pressure reduces post-operative wound complications after Total Knee Arthroplasty (TKA).¹

Applying lower tourniquet pressure has been found to result in less post-operative pain. One study demonstrated that an average thigh tourniquet pressure of 230 mmHg resulted in statistically significant lower pain over a multi-day recovery period versus a tourniquet pressure of 350 mmHg.²

Minimizing tourniquet pressure and pressure gradients by using Personalized Pressure Technology helps minimize the risk of nerve-related injuries.³





A.T.S. 4000 Tourniquet
w/ Hoses 60400010100



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

System Features and Benefits

	Zimmer A.T.S. 4000	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	8.4" Color	7.0" Color
Minimum/Maximum Pressure	50/600 mmHg	50/600 mmHg
Pressure Accuracy	± 3 mmHg (50-600 mmHg)	± 4 mmHg (50-600 mmHg)
Limb Occlusion Pressure (LOP) ▼ Allows for patient specific pressure which ensures that the minimum pressure is used, reducing the potential for post-operative tourniquet pain or other complications, such as bruising, nerve damage and swelling.	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 and can prevent post-operative complications.	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

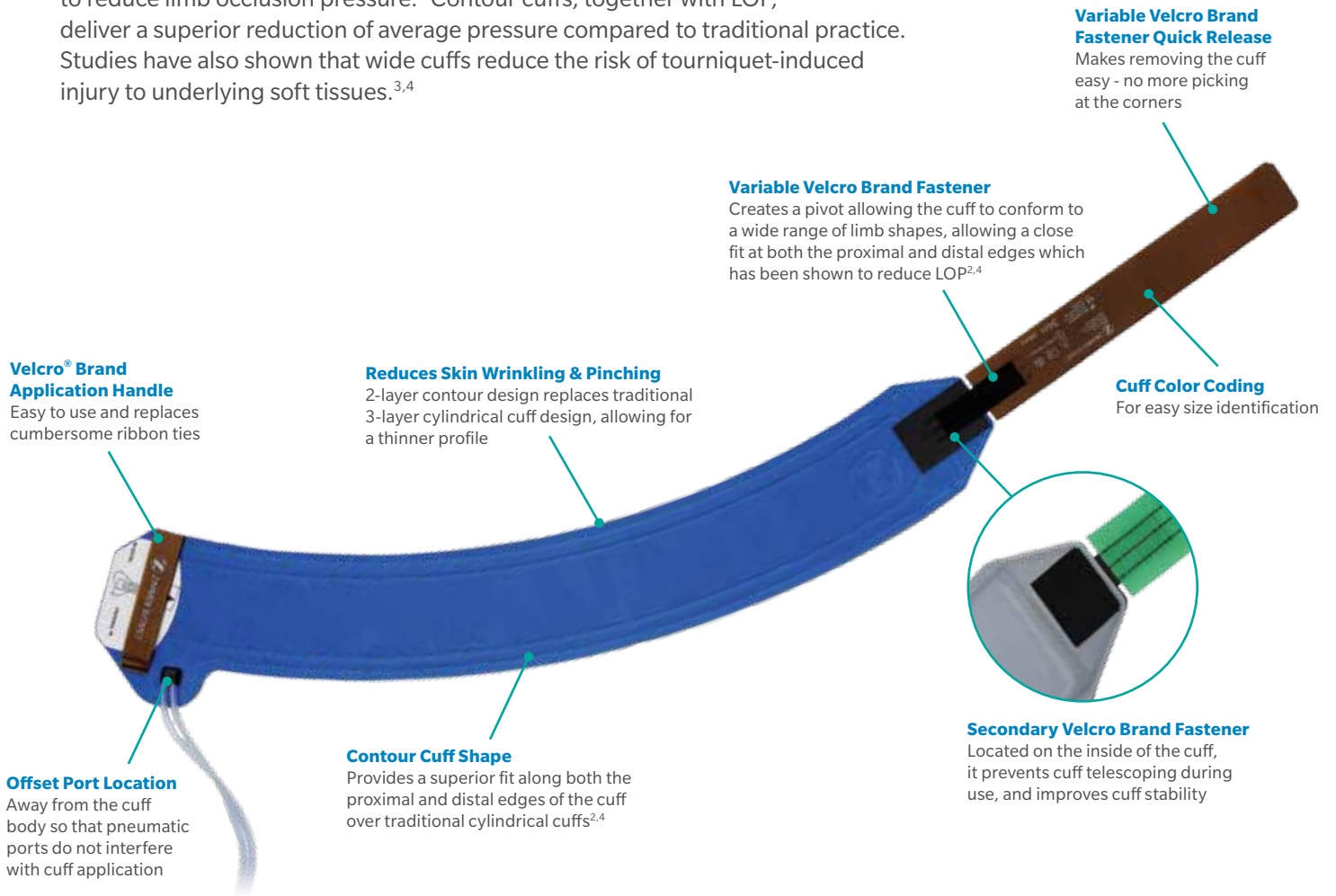
Disposable Contour Cuffs

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.^{3,4} For tapered limbs, contouring the cuff to match the conical shape of the limb has been shown to reduce limb occlusion pressure.⁴ Contour cuffs, together with LOP, deliver a superior reduction of average pressure compared to traditional practice. Studies have also shown that wide cuffs reduce the risk of tourniquet-induced injury to underlying soft tissues.^{3,4}



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 to ensure enhanced 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}

12 SPSB Sterile Cuff
(with sleeve) 60707510500
(without sleeve) 60707510200



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.⁵ All Zimmer Biomet protection sleeves are compatible with both cylindrical and contour cuffs.

8 inch Cuff Sleeve 6080000800
12 inch Cuff Sleeve 60800001200
18 inch Cuff Sleeve 60800001800
24 inch Cuff Sleeve 60800002400
30 inch Cuff Sleeve 60800003000
34 inch Cuff Sleeve 60800003400
42 inch Cuff Sleeve 60800004200



Ordering Information

Tourniquet Systems and Accessories

A.T.S.4000TS with Hoses	60400010100
A.T.S.4000TS with Cuffs and Hoses*	60400010200
A.T.S.4000 with Cuff Standard BSK Hose	60400010300
A.T.S.4000TS with Standard BSK/Hose	60400010400
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. 500/750/1200 Hose, Red/WE, each	60279000100
A.T.S. 500/750/1200 Hose, Blue/W, each	60279000200
A.T.S. 1500/2000/3000 Dual Port Hose, Blue/W, Each	60401700100
A.T.S. 1500/2000/3000 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"

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

References

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3. Noordin S, McEwen JA, Kragh JF Jr, Eisen A, Masri BA. Surgical tourniquets in orthopaedics. *J Bone Joint Surg Am*. 2009 Dec;91(12):2958-67.
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Service and Warranty Programs

Do you have coverage on your Tourniquet capital equipment? Learn more at service.zimmer.com.

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 SurgicalSales-ClinicalExcellence@zimmerbiomet.com

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



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