



VerSys® LD/Fx Cemented and Press-Fit Hip Prostheses

Surgical Technique



Versatile solutions for total and partial hip replacement

VerSys LD/Fx Cemented and Press-Fit Hip Prostheses Surgical Technique

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Preoperative Templating

Use preoperative templating (Fig. 1) to determine: a) the anticipated stem size, b) the height and angle of the femoral neck osteotomy, c) the relationship of the lateral border of the prosthesis to the trochanteric bed, d) the relationship of the medial aspect of the femoral collar to the calcar, and e) the center of rotation of the prosthetic head as it aligns with the tip of the greater trochanter. This preoperative information will help achieve the most accurate implantation and joint reconstruction.

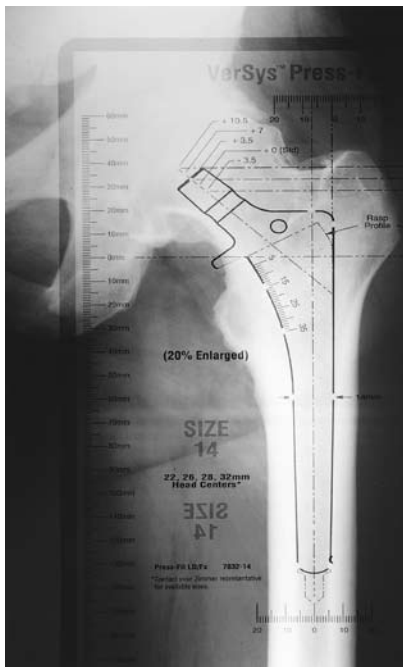


Fig. 1

Examination of the rasp/implant relationships reveals that the Cemented LD/Fx implants are smaller than the corresponding rasp. This allows space for the cement mantle. A summary of the cement mantle thickness is provided in the Cement Mantle Chart (Table 1). Stems with a hyphenated size designation can be used with two different rasps depending on the size of the femur and/or the desired cement mantle thickness. For instance, a size 14-15 implant can be used with the 14 or 15 rasp. The size 14 rasp produces a minimum cement mantle thickness of 1.0mm and the 15 rasp produces a 1.5mm minimum cement mantle. A template is provided for each possible rasp option in the Cemented LD/Fx system.

Examination of the Press-Fit LD/Fx templates reveals that these stems have been sized to achieve a tight, intimate contact with the rasped canal. Over the distal half of the implant, the stem is sized to have a 0mm press-fit (or line-to-line relationship) with the rasped canal. The body portion of the implant has a tapering press-fit that is 0mm at the midstem transition and progresses to 0.5mm at the osteotomy level.

Cement Mantle Chart

Cat. No. (Stem Size)	Rasp Size	Recommended Centralizer	Min. Cement Mantle Thickness (mm)
00-7833-011-00 (11)	11	9	1.0
00-7833-012-00 (12-13)	12, 13	10, 11	1.0, 1.5
00-7833-014-00 (14-15)	14, 15	12, 13	1.0, 1.5
00-7833-016-00 (16-17)	16, 17	14, 15	1.5, 2.0
00-7833-018-00 (18)	18	16	2.0

Leg Length Measurement

Leg length must be measured during the surgery to help assure that inappropriate lengthening or shortening does not occur. To fix the leg length caliper rigidly, insert it into the pelvic wing posterior to the anterior-superior iliac spine, then place a reference point on the greater trochanter or on the shaft of the femur. Make the initial measurement with the leg in an immobilized reproducible position.

Femoral Neck Osteotomy

Place the osteotomy guide over the exposed proximal femur (Fig. 2). The center hole marked “LD” (low demand/ fracture) should be aligned with the center of rotation of the femoral head. Perform the osteotomy using one or more of the following anatomical references:

- the relationship of the tip of the greater trochanter to the center of the femoral head, b) the top of the femoral head, and c) the distance above the lesser trochanter.



Fig. 2

Opening Femoral Canal

Using the box osteotome, excise bone laterally from the greater trochanter to facilitate neutral placement of the stem without impinging or damaging abductor musculature. A trochanteric router or Charnley awl may then be used to achieve straight access down the center of the femoral canal (Figs. 3 and 3a).



Fig. 3



Fig. 3a

Femoral Rasing

Start with a rasp one or two sizes smaller than the size selected during templating. **Note: The rasp alignment tip used for the VerSys porous prostheses should not be assembled with the rasp.** The insertion of the femoral rasp should provide for anteversion by rotating the rasp to re-create the patient's normal anteversion, except in cases of excessive anteversion (Fig. 4).



Fig. 4

The rasp must advance with each blow of the mallet. Stop rasping if there is no evidence of advancement. Continuing to impact the rasp handle when the rasp is not advancing increases the potential for fracturing the femur. If the rasp countersinks 5mm, then proceed to the next size. If the rasp countersinks only 2 to 3mm, this will be the final size.

Calcar Preparation

After removing the rasp handle, place the calcar planer over the rasp trunnion. Start the powered handpiece with the planer prior to contact and gently ease onto the calcar to avoid fractures. Machine the calcar to achieve intimate collar/calcar contact (Fig. 5).



Fig. 5

Trial Reduction

Assemble the appropriate size cone provisional onto the rasp trunnion.

The head/neck trials include five different neck lengths for the femoral head sizes and four neck length options with the unipolar heads (Fig. 6). Observe the relationship of the center of the femoral head to the top of the greater trochanter with each head/neck trial to confirm the preoperative plan. Note the sciatic nerve tension, range of motion, and confirm the positions of potential instability.



Fig. 6

Canal Sizing For Distal Centralization (Cemented LD/Fx Only)

The distal centralizer size should be chosen by measuring the canal with the intramedullary sizers. This measurement must be taken at a depth that represents the final resting position of the centralizer.

This will provide for optimal centralization of the distal stem. An alternate method is to refer to the recommended centralizer size in the Cement Mantle Chart (Table 1, Page 4). The centralizer size recommended in the chart is 2mm smaller than the rasp. This centralizer will maintain the mantle thickness indicated in the chart; however, it does not necessarily centralize the distal stem. Failure to properly measure the distal canal may prohibit the stem from fully seating.

Choose a distal centralizer of appropriate size. The distal centralizer's inner diameter has a taper through its length similar to the head/neck taper. Before attaching the distal centralizer to the stem, apply a thin layer of cement to the distal tip or fill the tapered hole in the centralizer with cement. This will help promote a good bond between the stem and distal centralizer.

When attaching the centralizer, the flat side of the centralizer is directed toward the stem tip. The tip should be introduced through the opening on the flat side of the centralizer (Fig.7).

The centralizer is advanced on the stem tip with a minimum force until it comes to rest in its final position.

Note: The centralizer does not need to be twisted or forced on the stem.

Improper assembly of the distal centralizer may prohibit the stem from fully seating.



Fig. 7

For Press-Fit LD/Fx Technique, skip to **IMPLANT INSERTION** on page 7.

Canal Preparation and Cement Technique (Cemented LD/Fx Only)

Using state-of-the-art cementing technique, clean the femoral canal with pulsatile lavage irrigation and dry it thoroughly. Measure the distal diameter of the canal with the intramedullary sizers to determine size of the intramedullary plug (Fig. 8). After reducing bone cement porosity, inject bone cement into canal in retrograde fashion with subsequent cement pressurization technique (Fig. 9).

Fig. 8



Fig. 9



Implant Insertion (Cemented LD/Fx Only)

Push the femoral stem down the canal (Fig. 10). Insertion control may be enhanced by using the stem impactor to guide the stem. Moderate resistance confirms good pressurization. Care should be taken to remove all residual cement. Maintain implant position until cement has completely cured.

Fig. 10



Implant Insertion (Press-Fit LD/Fx Only)

Press the implant down the canal by hand until it stops advancing, usually 2 to 3cm above the neck osteotomy. Assemble the stem impactor in the slot provided on the implant (Fig. 11). Tap the impactor until the collar of the implant is seated on the calcar or the implant stops advancing. A press-fit relationship between the proximal implant surfaces and the rasp exists. As a result, the insertion resistance of the implant may increase as the stem is advanced down the canal.

Fig. 11



Stem Size	Stem length*	Depth to which Cement Plug Should be Inserted*
11	120 mm	140 mm
12	125 mm	145 mm
13	130 mm	150 mm
14	135 mm	155 mm
15	140 mm	160 mm
16	145 mm	165 mm
17	150 mm	170 mm

*All measurements are from the medial calcar.

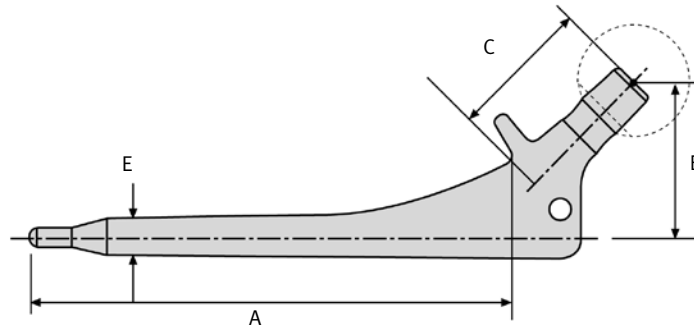
Final Assembly Of Implant

Place the femoral head onto the taper and lock it with a twisting motion. Using the femoral head driver, secure the femoral head onto the stem with one firm blow. Use a similar technique to lock the unipolar head and adaptor onto the taper. Place the adaptor and unipolar head onto the taper and lock them onto the taper with a twisting motion.

Note: Impacting the stem driver while inserting the implant with an assembled head may cause the femoral head to loosen. Test the security of the head fixation by trying to remove the head manually once the implant is seated. One sharp strike with the femoral head impactor should ensure that the femoral head is seated on the taper.

Neck Length Construction with Unipolar Heads

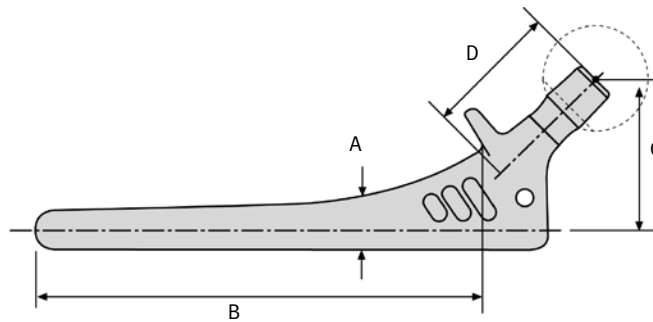
Four neck lengths can be achieved with each unipolar head diameter. The shortest neck length option is achieved by attaching the head directly onto the stem taper. Longer neck lengths (+7mm, +10.5mm, and +14mm) can be achieved by attaching the corresponding adaptor onto the stem taper, then placing the head on the adaptor. The adaptors are designed not to attach to the standard femoral heads.



VerSys Cemented LD/Fx

Prod. No.	Stem Size	(A) Stem Length (mm)	(B) Offset (mm) When Head/Neck Component Selected is:					(C) Neck Length (mm) When Head/Neck Component Selected is:					(E) Distal Dia
			-3.5	0	+3.5	+7	+10.5	-3.5	0	+3.5	+7	+10.5	
00-7833-011-00	11	120	33	36	38	41	43	28	32	35	39	42	9
00-7833-012-00	12*	125	35	38	40	43	45	29	33	36	40	43	10
00-7833-014-00	14**	135	37	40	42	45	47	32	36	39	43	46	12
00-7833-016-00	16***	145	39	42	44	47	49	35	39	42	46	49	13
00-7833-018-00	18	155	39	42	44	47	49	35	39	42	46	49	14

*Use with 12 or 13 rasp
 ** Use with 14 or 15 rasp
 *** Use with 16 or 17 rasp



VerSys Press-Fit LD/Fx

Prod. No.	(A) Stem Size	(B) Stem Length (mm)	(C) Offset (mm) When Head/Neck Component Selected is:					(D) Neck Length (mm) When Head/Neck Component Selected is:				
			-3.5	0	+3.5	+7	+10.5	-3.5	0	+3.5	+7	+10.5
00-7834-011-00	11	120	33	36	38	41	43	28	32	35	39	42
00-7834-012-00	12	125	35	38	40	43	45	29	33	36	40	43
00-7834-013-00	13	130	35	38	40	43	45	29	33	36	40	43
00-7834-014-00	14	135	37	40	42	45	47	32	36	39	43	46
00-7834-015-00	15	140	37	40	42	45	47	32	36	39	43	46
00-7834-016-00	16	145	39	42	44	47	49	35	39	42	46	49

Order Information

VerSys Cemented Distal Centralizers

Prod. No.	Description
00-7859-009-00	Distal Centralizer 9mm
00-7859-010-00	Distal Centralizer 10mm
00-7859-011-00	Distal Centralizer 11mm
00-7859-012-00	Distal Centralizer 12mm
00-7859-01300	Distal Centralizer 13mm
00-7859-014-00	Distal Centralizer 14mm
00-7859-015-00	Distal Centralizer 15mm
00-7859-016-00	Distal Centralizer 16mm
00-7859-017-00	Distal Centralizer 17mm
00-7859-018-00	Distal Centralizer 18mm
00-7859-019-00	Distal Centralizer 19mm

VerSys Endoprosthetic Femoral Head Adaptors

Prod. No.	Description
00-7818-099-00	Endo Femoral Head Adaptor +7.0mm
00-7818-099-01	Endo Femoral Head Adaptor +10.5mm
00-7818-099-02	Endo Femoral Head Adaptor +14.0mm

VerSys Femoral Head Options

Prod. No.	Description
00-8018-022-20	Femoral Head -2 x 22mm Dia
00-8018-022-02	Femoral Head 0 x 22mm Dia
00-8018-022-30	Femoral Head +3 x 22mm Dia
00-8018-026-01	Femoral Head -3.5 x 26mm Dia
00-8018-026-02	Femoral Head 0 x 26mm Dia
00-8018-026-03	Femoral Head +3.5 x 26mm Dia
00-8018-026-04	Femoral Head +7 x 26mm Dia
00-8018-026-05	Femoral Head +10.5 x 26mm Dia
00-8018-028-01	Femoral Head -3.5 x 28mm Dia
00-8018-028-02	Femoral Head 0 x 28mm Dia
00-8018-028-03	Femoral Head +3.5 x 28mm Dia
00-8018-028-14	Femoral Head +7 x 28mm Dia
00-8018-028-05	Femoral Head +10.5 x 28mm Dia
00-8018-032-01	Femoral Head -3.5 x 32mm Dia
00-8018-032-02	Femoral Head 0 x 32mm Dia
00-8018-032-03	Femoral Head +3.5 x 32mm Dia
00-8018-032-14	Femoral Head +7 x 32mm Dia
00-8018-032-05	Femoral Head +10.5 x 32mm Dia

VerSys Endoprosthetic Femoral Head Options

Prod. No.	Description
00-7818-038-00	Endo Femoral Head 38mm Dia
00-7818-039-00	Endo Femoral Head 39mm Dia
00-7818-040-00	Endo Femoral Head 40mm Dia
00-7818-041-00	Endo Femoral Head 41mm Dia
00-7818-042-00	Endo Femoral Head 42mm Dia
00-7818-043-00	Endo Femoral Head 43mm Dia
00-7818-044-00	Endo Femoral Head 44mm Dia
00-7818-045-00	Endo Femoral Head 45mm Dia
00-7818-046-00	Endo Femoral Head 46mm Dia
00-7818-047-00	Endo Femoral Head 47mm Dia
00-7818-048-00	Endo Femoral Head 48mm Dia
00-7818-049-00	Endo Femoral Head 49mm Dia
00-7818-050-00	Endo Femoral Head 50mm Dia
00-7818-051-00	Endo Femoral Head 51mm Dia
00-7818-052-00	Endo Femoral Head 52mm Dia
00-7818-053-00	Endo Femoral Head 53mm Dia
00-7818-054-00	Endo Femoral Head 54mm Dia
00-7818-055-00	Endo Femoral Head 55mm Dia
00-7818-057-00	Endo Femoral Head 57mm Dia
00-7818-060-00	Endo Femoral Head 60mm Dia
00-7818-063-00	Endo Femoral Head 63mm Dia

Multipolar® Bipolar Metal Shell

Prod. No.	Description
00-5001-038-00	Bipolar Metal Shell, 38mm OD
00-5001-039-00	Bipolar Metal Shell, 39mm OD
00-5001-040-00	Bipolar Metal Shell, 40mm OD
00-5001-041-00	Bipolar Metal Shell, 41mm OD
00-5001-042-00	Bipolar Metal Shell, 42mm OD
00-5001-043-00	Bipolar Metal Shell, 43mm OD
00-5001-044-00	Bipolar Metal Shell, 44mm OD
00-5001-045-00	Bipolar Metal Shell, 45mm OD
00-5001-046-00	Bipolar Metal Shell, 46mm OD
00-5001-047-00	Bipolar Metal Shell, 47mm OD
00-5001-048-00	Bipolar Metal Shell, 48mm OD
00-5001-049-00	Bipolar Metal Shell, 49mm OD
00-5001-050-00	Bipolar Metal Shell, 50mm OD
00-5001-051-00	Bipolar Metal Shell, 51mm OD
00-5001-052-00	Bipolar Metal Shell, 52mm OD
00-5001-053-00	Bipolar Metal Shell, 53mm OD
00-5001-054-00	Bipolar Metal Shell, 54mm OD
00-5001-055-00	Bipolar Metal Shell, 55mm OD
00-5001-057-00	Bipolar Metal Shell, 57mm OD
00-5001-058-00	Bipolar Metal Shell, 58mm OD
00-5001-060-00	Bipolar Metal Shell, 60mm OD
00-5001-062-00	Bipolar Metal Shell, 62mm OD
00-5001-064-00	Bipolar Metal Shell, 64mm OD
00-5001-066-00	Bipolar Metal Shell, 66mm OD
00-5001-068-00	Bipolar Metal Shell, 68mm OD
00-5001-070-00	Bipolar Metal Shell, 70mm OD
00-5001-072-00	Bipolar Metal Shell, 72mm OD

Poly Liner Assembly – 22mm

Prod. No.	Description
00-5001-038-22	Liner Assembly, 38mm OD x 22mm ID
00-5001-039-22	Liner Assembly, 39mm OD x 22mm ID
00-5001-040-22	Liner Assembly, 40/41mm OD x 22mm ID
00-5001-042-22	Liner Assembly, 42/43mm OD x 22mm ID
00-5001-044-22	Liner Assembly, 44/45/46mm OD x 22mm ID
00-5001-047-22	Liner Assembly, 47/48/49mm OD x 22mm ID
00-5001-050-22	Liner Assembly, 50/51/52mm OD x 22mm ID
00-5001-053-22	Liner Assembly, 53/54/55mm OD x 22mm ID
00-5001-057-22	Liner Assembly, 57/58mm OD x 22mm ID
00-5001-060-22	Liner Assembly, 60mm OD x 22mm ID

Poly Liner Assembly – 26mm

Prod. No.	Description
00-5001-040-26	Liner Assembly, 40/41mm OD x 26mm ID
00-5001-042-26	Liner Assembly, 42/43mm OD x 26mm ID
00-5001-044-26	Liner Assembly, 44/45/46mm OD x 26mm ID
00-5001-047-26	Liner Assembly, 47/48/49mm OD x 26mm ID
00-5001-050-26	Liner Assembly, 50/51/52mm OD x 26mm ID
00-5001-053-26	Liner Assembly, 53/54/55mm OD x 26mm ID
00-5001-057-26	Liner Assembly, 57/58mm OD x 26mm ID
00-5001-060-26	Liner Assembly, 60/62mm OD x 26mm ID
00-5001-064-26	Liner Assembly, 64/66mm OD x 26mm ID

00-5001-068-26	Liner Assembly, 68/70mm OD x 26mm ID
00-5001-072-26	Liner Assembly, 72mm OD x 26mm ID

Poly Liner Assembly – 28mm

Prod. No.	Description
00-5001-044-28	Liner Assembly, 44/45/46mm OD x 28mm ID
00-5001-047-28	Liner Assembly, 47/48/49mm OD x 28mm ID
00-5001-050-28	Liner Assembly, 50/51/52mm OD x 28mm ID
00-5001-053-28	Liner Assembly, 53/54/55mm OD x 28mm ID
00-5001-057-28	Liner Assembly, 57/58mm OD x 28mm ID
00-5001-060-28	Liner Assembly, 60/62mm OD x 28mm ID
00-5001-064-28	Liner Assembly, 64/66mm OD x 28mm ID
00-5001-068-28	Liner Assembly, 68/70mm OD x 28mm ID
00-5001-072-28	Liner Assembly, 72mm OD x 28mm ID

Poly Liner Assembly – 32mm

Prod. No.	Description
00-5001-047-32	Liner Assembly, 47/48/49mm OD x 32mm ID
00-5001-050-32	Liner Assembly, 50/51/52mm OD x 32mm ID
00-5001-053-32	Liner Assembly, 53/54/55mm OD x 32mm ID
00-5001-057-32	Liner Assembly, 57/58mm OD x 32mm ID
00-5001-060-32	Liner Assembly, 60/62mm OD x 32mm ID
00-5001-064-32	Liner Assembly, 64/66mm OD x 32mm ID
00-5001-068-32	Liner Assembly, 68/70mm OD x 32mm ID
00-5001-072-32	Liner Assembly, 72mm OD x 32mm ID

Instrumentation

Kit. No.	Description
00-5003-099-84	MultiPolar/Unipolar Complete Provisional Kit with VerSys Endo Heads (Includes one each of the items listed below:)

Prod. No.	Description
00-5003-001-00	MultiPolar Bipolar Cup Disassembly Instrument
00-5003-002-00	MultiPolar Bipolar Cup Acetabular Gauge Handle
00-5003-038-60	MultiPolar Cup/Unipolar Shell Provisional, 38mm OD
00-5003-039-60	MultiPolar Cup/Unipolar Shell Provisional, 39mm OD
00-5003-040-60	MultiPolar Cup/Unipolar Shell Provisional, 40mm OD
00-5003-041-60	MultiPolar Cup/Unipolar Shell Provisional, 41mm OD
00-5003-042-60	MultiPolar Cup/Unipolar Shell Provisional, 42mm OD
00-5003-043-60	MultiPolar Cup/Unipolar Shell Provisional, 43mm OD
00-5003-044-60	MultiPolar Cup/Unipolar Shell Provisional, 44mm OD
00-5003-045-60	MultiPolar Cup/Unipolar Shell Provisional, 45mm OD
00-5003-046-60	MultiPolar Cup/Unipolar Shell Provisional, 46mm OD

00-5003-047-60	MultiPolar Cup/Unipolar Shell Provisional, 47mm OD	00-7895-038-03	VerSys Endo Provisional Liner, 38-43mm, +10.5
00-5003-048-60	MultiPolar Cup/Unipolar Shell Provisional, 48mm OD	00-7895-038-04	VerSys Endo Provisional Liner, 38-43mm, +14
00-5003-049-60	MultiPolar Cup/Unipolar Shell Provisional, 49mm OD	00-7895-044-01	VerSys Endo Provisional Liner, 44-49mm, +0
00-5003-050-60	MultiPolar Cup/Unipolar Shell Provisional, 50mm OD	00-7895-044-02	VerSys Endo Provisional Liner, 44-49mm, +7
00-5003-051-60	MultiPolar Cup/Unipolar Shell Provisional, 51mm OD	00-7895-044-03	VerSys Endo Provisional Liner, 44-49mm, +10.5
00-5003-052-60	MultiPolar Cup/Unipolar Shell Provisional, 52mm OD	00-7895-044-04	VerSys Endo Provisional Liner, 44-49mm, +14
00-5003-053-60	MultiPolar Cup/Unipolar Shell Provisional, 53mm OD	00-7895-050-01	VerSys Endo Provisional Liner, 50-57mm, +0
00-5003-054-60	MultiPolar Cup/Unipolar Shell Provisional, 54mm OD	00-7895-050-02	VerSys Endo Provisional Liner, 50-57mm, +7
00-5003-055-60	MultiPolar Cup/Unipolar Shell Provisional, 55mm OD	00-7895-050-03	VerSys Endo Provisional Liner, 50-57mm, +10.5
00-5003-057-60	MultiPolar Cup/Unipolar Shell Provisional, 57mm OD	00-7895-050-04	VerSys Endo Provisional Liner, 50-57mm, +14
00-5003-058-60	MultiPolar Cup/Unipolar Shell Provisional, 58mm OD	00-7895-060-01	VerSys Endo Provisional Liner, 60-63mm, +0
00-5003-060-60	MultiPolar Cup/Unipolar Shell Provisional, 60mm OD	00-7895-060-02	VerSys Endo Provisional Liner, 60-63mm, +7
00-5003-062-60	MultiPolar Cup/Unipolar Shell Provisional, 62mm OD	00-7895-060-03	VerSys Endo Provisional Liner, 60-63mm, +10.5
00-5003-063-60	MultiPolar Cup/Unipolar Shell Provisional, 63mm OD	00-7895-060-04	VerSys Endo Provisional Liner, 60-63mm, +14
00-5003-064-60	MultiPolar Cup/Unipolar Shell Provisional, 64mm OD		
00-5003-066-60	MultiPolar Cup/Unipolar Shell Provisional, 66mm OD		
00-5003-068-60	MultiPolar Cup/Unipolar Shell Provisional, 68mm OD		
00-5003-070-60	MultiPolar Cup/Unipolar Shell Provisional, 70mm OD		
00-5003-072-60	MultiPolar Cup/Unipolar Shell Provisional, 72mm OD		
00-5003-040-22	MultiPolar Provisional Liner, 22mm ID, 38-43mm OD		
00-5003-044-22	MultiPolar Provisional Liner, 22mm ID, 44-49mm OD		
00-5003-050-22	MultiPolar Provisional Liner, 22mm ID, 50-58mm OD		
00-5003-060-22	MultiPolar Provisional Liner, 22mm ID, 60mm OD		
00-5003-040-26	MultiPolar Provisional Liner, 26mm ID, 40-43 OD		
00-5003-040-26	MultiPolar Provisional Liner, 26mm ID, 44-49 OD		
00-5003-040-26	MultiPolar Provisional Liner, 26mm ID, 50-58 OD		
00-5003-040-26	MultiPolar Provisional Liner, 26mm ID, 60-72 OD		
00-5003-044-28	MultiPolar Provisional Liner, 28mm ID, 44-49mm OD		
00-5003-050-28	MultiPolar Provisional Liner, 28mm ID, 50-58mm OD		
00-5003-060-28	MultiPolar Provisional Liner, 28mm ID, 60-72mm OD		
00-5003-047-32	MultiPolar Provisional Liner, 32mm ID, 47-49mm OD		
00-5003-050-32	MultiPolar Provisional Liner, 32mm ID, 50-58mm OD		
00-5003-060-32	MultiPolar Provisional Liner, 32mm ID, 60-72mm OD		
00-5003-080-00	MultiPolar Case		
00-5003-084-00	VerSys Endo Provisional Head Tray		
00-7895-038-01	VerSys Endo Provisional Liner, 38-43mm, +0		
00-7895-038-02	VerSys Endo Provisional Liner, 38-43mm, +7		

Please refer to package insert for complete product information, including contraindications, warnings, precautions, and adverse effects.



Contact your Zimmer representative or visit us at www.zimmer.com

