

**CATHETERS AND CANNULAE
PRODUCT CATALOG**

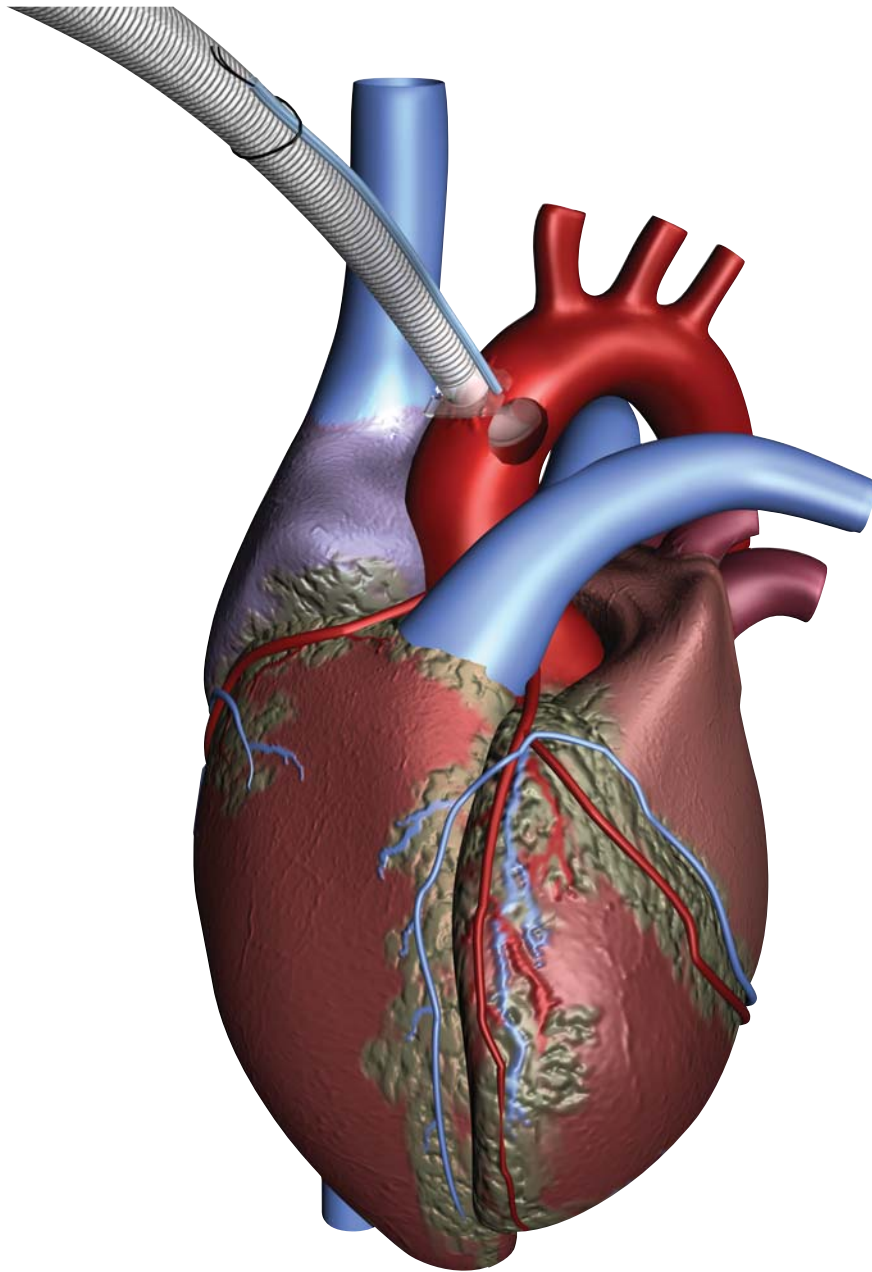
CARDIOVASCULAR



TABLE OF CONTENTS

ARTERIAL CANNULAE	PAGE
Arterial Cannulae TRANSMINAR	6
Arterial Cannulae wire reinforced	12
Arterial Cannulae without reinforcement	13
Pediatric Arterial Cannulae	16
VENOUS RETURN CATHETERS	PAGE
Venous Return Catheters Single-Stage wire reinforced	20
Venous Return Catheters Single-Stage without reinforcement	23
Venous Return Catheters Single-Stage Pediatric	25
Venous Return Catheters Two-Stage	32
Venous Return Catheters Two-Stage SLIM	37
Venous Return Catheters Two-Stage SLIM ELLIPTIC	41
Venous Return Catheters Three-Stage SLIM	43
PERIPHERAL CANNULAE	PAGE
HLS Cannulae	46
Accessoires	48
CARDIOPLEGIA CANNULAE	PAGE
Antegrade Cardioplegia Cannulae	50
Coronary Perfusion Cannulae	58
Retrograde Cardioplegia Cannulae	64
VENT CATHETERS · SUCTION DEVICES	PAGE
Vent Catheters	70
Suction Devices	73
SPECIAL APPLICATION	PAGE
Pressure Monitoring Catheters	76
ECMO Cannulae for Neonates	77
Thoracic Drainage Catheters	79
Vessel Cannulae	80
Cardio Kits	81
FLOW CHARTS / INDEX	PAGE
Flow Charts	84
Index	91

ARTERIAL CANNULAE



Product features:

- Non-reinforced for standard products
- Wire reinforcement for excellent kink-resistant performance
- Various French sizes for neonates, pediatrics and adults
- Multiple tip choices and fixation methods
 - Straight tip
 - Curved tip
 - Curved tip with beaked contour
 - Ring or flange fixation
- Various connector options with microporous vent plug

ARTERIAL CANNULAE

The Adult TRANSMINAR Cannulae are available in a wide range of sizes, straight or curved tip designs, with ring or flange, with or without connector to suit the individual anatomical needs and the preference of the surgeon. The inner wall is smooth throughout the whole cannula. Excellent flow performance minimizes the risk of haemolysis. High flexibility without risk of kinking is due to the excellent combination of thin cannula walls and wire reinforcement. A micropore vent plug is standard feature of all arterial cannulae to provide complete automatic air venting during the aortic cannulation.



Wire reinforced, straight tip with ring, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
A20-0101	20 Fr. (6.7 mm)	23 cm	3/8"
A22-0101	22 Fr. (7.3 mm)	23 cm	3/8"
A24-0101	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, straight tip with ring, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-0105	20 Fr. (6.7 mm)	23 cm	3/8"
A22-0105	22 Fr. (7.3 mm)	23 cm	3/8"
A24-0105	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



ARTERIAL CANNULAE

Wire reinforced, straight tip with ring, with pre-mounted Luer lock connector, Luer lock tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-0107	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-0107	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-0107	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, straight tip with ring, with pre-mounted Luer lock connector, Luer lock non-tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-0106	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-0106	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-0106	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, curved tip with ring, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
A20-2101	20 Fr. (6.7 mm)	23 cm	3/8"
A22-2101	22 Fr. (7.3 mm)	23 cm	3/8"
A24-2101	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



ARTERIAL CANNULAE



Wire reinforced, curved tip with ring, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-2105	20 Fr. (6.7 mm)	23 cm	3/8"
A22-2105	22 Fr. (7.3 mm)	23 cm	3/8"
A24-2105	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, curved tip with ring, with pre-mounted Luer lock connector, Luer lock non-tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-2107	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-2107	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-2107	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed

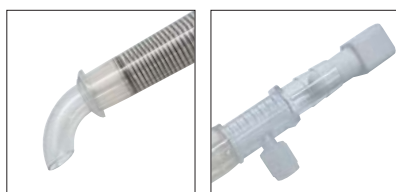


Wire reinforced, curved tip with ring, with pre-mounted Luer lock connector, Luer lock tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-2106*	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-2106*	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-2106*	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed *available on request



ARTERIAL CANNULAE

Wire reinforced, straight tip with flange, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-5105	20 Fr. (6.7 mm)	23 cm	3/8"
A22-5105	22 Fr. (7.3 mm)	23 cm	3/8"
A24-5105	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, straight tip with flange, with pre-mounted Luer lock connector, Luer lock tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-5107	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-5107	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-5107	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, straight tip with flange, with pre-mounted Luer lock connector, Luer lock non-tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-5106	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-5106	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-5106	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



ARTERIAL CANNULAE



Wire reinforced, curved tip with flange, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
A20-7101	20 Fr. (6.7 mm)	23 cm	3/8"
A22-7101	22 Fr. (7.3 mm)	23 cm	3/8"
A24-7101	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, curved tip with flange, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-7105	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-7105	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-7105	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, curved tip with flange, with pre-mounted Luer lock connector, Luer lock non-tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-7107	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-7107	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-7107	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed

ARTERIAL CANNULAE

Wire reinforced, curved tip with flange, with pre-mounted Luer lock connector, Luer lock tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
A20-7106	20 Fr. (6.7 mm)	23 cm	3/8" LL
A22-7106	22 Fr. (7.3 mm)	23 cm	3/8" LL
A24-7106	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, curved tip, with pre-mounted connector, Luer lock non-tip orientated

These curved tip Arterial Cannulae for aortic cannulation feature a special contoured tip that makes insertion of the tip into and through the aortic wall quicker, easier and safer.

Specifications:

Art.No.	Outer Ø	Flange	Ring	Length	Connector
682122	22 Fr. (7.3 mm)	x		26 cm	3/8" LL
682124	24 Fr. (8.0 mm)	x		26 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



ARTERIAL CANNULAE

Standard Arterial Cannulae are designed to allow a gentle laminar blood flow due to the smooth surface of the inner cannulae wall throughout the whole cannula. The wire reinforcement prevents unintentional kinking and therefore minimizes the risk for an increased pressure drop or reduction in flow.



Wire reinforced, straight tip without ring, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
AS 18 V	18 Fr. (6.0 mm)	23 cm	3/8"
AS 21 V	21 Fr. (7.0 mm)	23 cm	3/8"
AS 24 V	24 Fr. (8.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, straight tip without ring, with pre-mounted Luer lock connector, Luer lock non-tip orientated

Specifications:

Art.No.	Outer Ø	Length	Connector
AS 18 V -85 B	18 Fr. (6.0 mm)	23 cm	3/8" LL
AS 21 V -85 B	21 Fr. (7.0 mm)	23 cm	3/8" LL
AS 24 V -85 B	24 Fr. (8.0 mm)	23 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed

ARTERIAL CANNULAE

Arterial Cannulae without reinforcement are an alternative to the wire reinforced cannulae where the surgical risk of kinking is minimized. The microporous vent plug provides convenient automatic air venting during aortic cannulation.

Straight tip with adjustable ring, without connector

Specifications:

Art.No.	Outer Ø	Ring distance	Rigid part	Length	Connection size
HK 45 SE	21 Fr. (7.0 mm)	23 mm	10 mm	40 cm	1/4"
HK 46 SE	24 Fr. (8.0 mm)	26 mm	10 mm	40 cm	1/4"
HK 47 SF	28 Fr. (9.3 mm)	29 mm	17 mm	40 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



Straight tip with adjustable ring, with pre-mounted connector

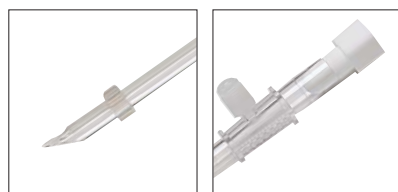
Specifications:

Art.No.	Outer Ø	Ring distance	Rigid part	Length	Connector
HK 36 SS-90 V	24 Fr. (8.0 mm)	26 mm	14 mm	25 cm	3/8"
HK 47 SE-84 V*	28 Fr. (9.3 mm)	29 mm	12 mm	40 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed *available on request



ARTERIAL CANNULAE



Straight tip with adjustable ring, with pre-mounted Luer lock connector, Luer lock tip orientated

Specifications:

Art.No.	Outer Ø	Ring distance	Rigid part	Length	Connector
HK 45 SH-91 V	21 Fr. (7.0 mm)	28 mm	8 mm	40 cm	3/8" LL
HK 36 PB-91 V	24 Fr. (8.0 mm)	26 mm	70 mm	30 cm	3/8" LL
HK 46 SH-91 V	24 Fr. (8.0 mm)	31 mm	10 mm	40 cm	3/8" LL
HK 46 SM-91 V	24 Fr. (8.0 mm)	23 mm	17 mm	40 cm	3/8" LL
HK 47 SH-85 V*	30 Fr. (10.0 mm)	33 mm	12 mm	40 cm	3/8" LL

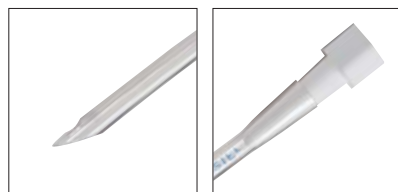
Packaging unit: 10 pcs. / carton, sterile packed *available on request

Straight tip without ring, without connector

Specifications:

Art.No.	Outer Ø	Ring distance	Rigid part	Length	Connection size
HK 34 SN	18 Fr. (6.0 mm)	-	10 mm	30 cm	1/4"
HK 35 SN	21 Fr. (7.0 mm)	-	10 mm	30 cm	1/4"
HK 36 SN	24 Fr. (8.0 mm)	-	6 mm	30 cm	1/4"
HK 37 SN	28 Fr. (9.3 mm)	-	20 mm	30 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Curved tip without ring, with pre-mounted Luer lock connector, Luer lock non-tip orientated

Specifications:

Art.No.	Outer Ø	Ring distance	Rigid part	Length	Connector
HK 36 SN 1103	24 Fr. (8.0 mm)	-	Tip	30 cm	3/8" LL

Packaging unit: 10 pcs. / carton, sterile packed



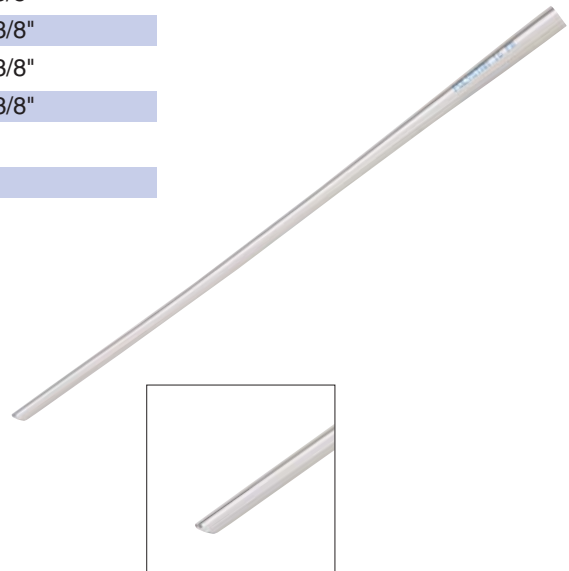
ARTERIAL CANNULAE

Non-reinforced, straight tip, without connector

Specifications:

Art.No.	Outer Ø	Ring	Length	Connection size
461200	12 Fr. (4.0 mm)		24 cm	1/4"
461212	12 Fr. (4.0 mm)	x	24 cm	1/4"
461400	14 Fr. (4.6 mm)		24 cm	1/4"
461414	14 Fr. (4.6 mm)	x	24 cm	1/4"
461600	16 Fr. (5.3 mm)		24 cm	1/4"
461616	16 Fr. (5.3 mm)	x	24 cm	1/4"
461800	18 Fr. (6.0 mm)		24 cm	1/4"
461818	18 Fr. (6.0 mm)	x	24 cm	1/4"
462100	21 Fr. (7.0 mm)		24 cm	3/8"
462121	21 Fr. (7.0 mm)	x	24 cm	3/8"
462400	24 Fr. (8.0 mm)		24 cm	3/8"
462424	24 Fr. (8.0 mm)	x	24 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



PEDIATRIC ARTERIAL CANNULAE

A very smooth surface of the inner cannula wall creates gentle laminar flow. Flexibility of the cannula body combined with precise tip designs enable accurate and safe aortic perfusion of pediatric patients.

Wire reinforced, straight tip without ring, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
AS 08 V	08 Fr. (2.6 mm)	23 cm	1/4"
AS 10 V	10 Fr. (3.3 mm)	23 cm	1/4"
AS 12 V	12 Fr. (4.0 mm)	23 cm	1/4"
AS 14 V	14 Fr. (4.6 mm)	23 cm	1/4"
AS 16 V	16 Fr. (5.3 mm)	23 cm	1/4"
AS 18 V	18 Fr. (6.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed

Wire reinforced, straight tip with ring, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
ASR 08 V	08 Fr. (2.6 mm)	23 cm	1/4"
ASR 10 V	10 Fr. (3.3 mm)	23 cm	1/4"
ASR 12 V	12 Fr. (4.0 mm)	23 cm	1/4"
ASR 14 V	14 Fr. (4.6 mm)	23 cm	1/4"
ASR 16 V	16 Fr. (5.3 mm)	23 cm	1/4"
ASR 18 V	18 Fr. (6.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs./ carton, sterile packed

Wire reinforced, curved tip with ring, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
ACR 0890 V	08 Fr. (2.6 mm)	23 cm	1/4"
ACR 1090 V	10 Fr. (3.3 mm)	23 cm	1/4"
ACR 1290 V	12 Fr. (4.0 mm)	23 cm	1/4"
ACR 1490 V	14 Fr. (4.6 mm)	23 cm	1/4"
ACR 1690 V	16 Fr. (5.3 mm)	23 cm	1/4"
ACR 1890 V	18 Fr. (6.0 mm)	23 cm	3/8"

Packaging unit: 10 pcs./ carton, sterile packed

PEDIATRIC ARTERIAL CANNULAE

These Arterial Cannulae range in sizes from 12 Fr. to 24 Fr. and has a straight tip configuration with ring fixation.

Wire reinforced, straight tip, without connector

Specifications:

Art.No.	Outer Ø	Flange	Ring	Length	Connection size
660012	12 Fr. (4.0 mm)		x	24 cm	1/4"
660014	14 Fr. (4.6 mm)		x	24 cm	1/4"
660016	16 Fr. (5.3 mm)		x	24 cm	1/4"
660018	18 Fr. (6.0 mm)		x	24 cm	3/8"
660021	21 Fr. (7.0 mm)		x	24 cm	3/8"
660024	24 Fr. (8.0 mm)		x	24 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



PEDIATRIC ARTERIAL CANNULAE

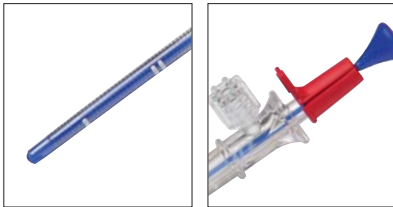
This range of Pediatric Arterial Cannulae covers sizes from 6 Fr. to 12 Fr. with the choice of 1/4" or 3/16" Luer lock connectors for easy venting. The one piece ultra-thin wire reinforced body gives the cannulae unique flexibility and kink resistance. A retractable stylet is incorporated to ease insertion through the vessel wall.



Wire reinforced, straight tip, stylet, with pre-mounted Luer lock connector

Specifications:

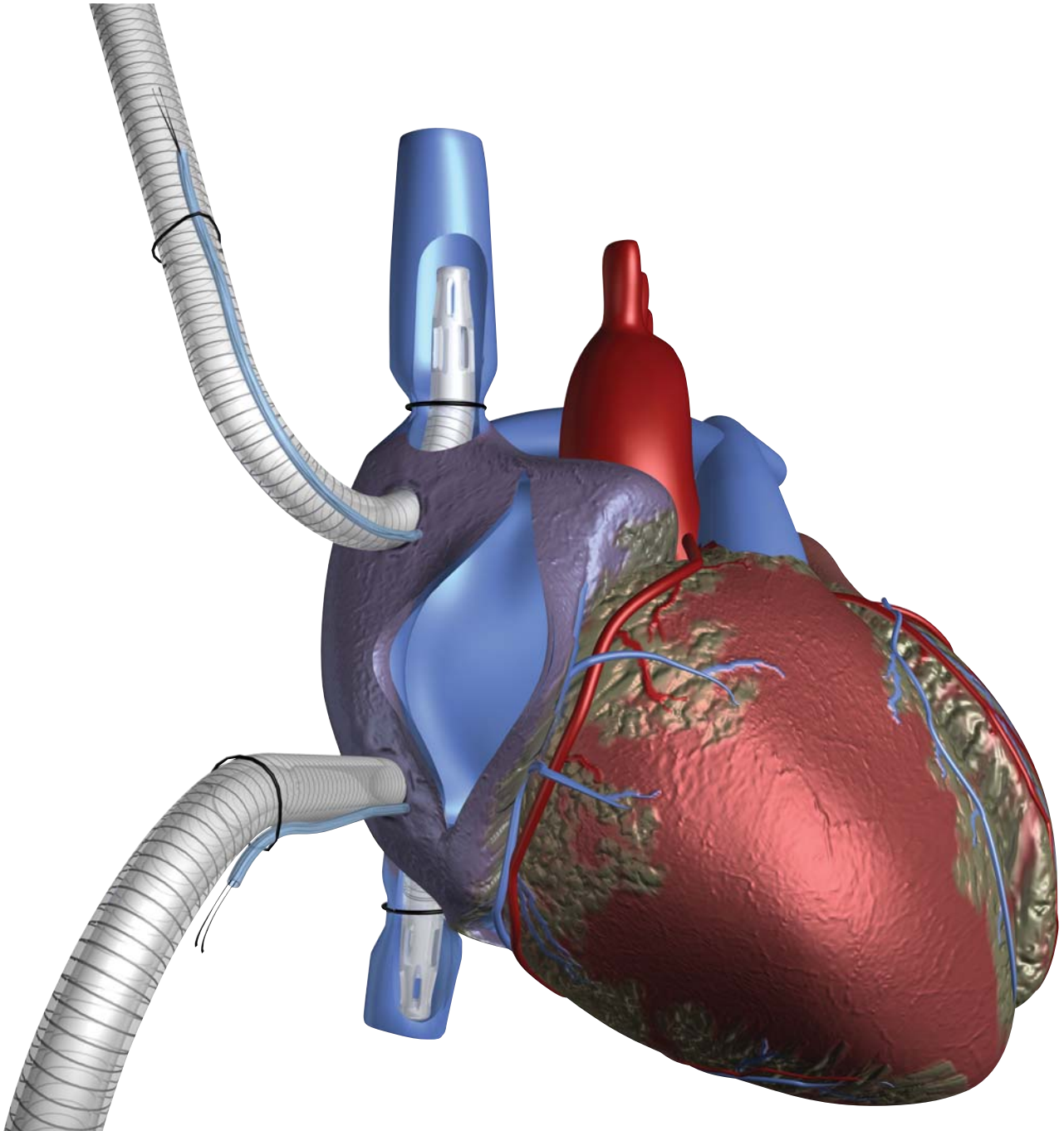
Art.No.	Outer Ø	Length	Connector
163606	06 Fr. (1.9 mm)	21.5 cm	3/16" LL
163608	08 Fr. (2.6 mm)	21.5 cm	3/16" LL
163610	10 Fr. (3.3 mm)	21.5 cm	3/16" LL
163612	12 Fr. (4.0 mm)	21.5 cm	3/16" LL
161406	06 Fr. (1.9 mm)	21.5 cm	1/4" LL
161408	08 Fr. (2.6 mm)	21.5 cm	1/4" LL
161410	10 Fr. (3.3 mm)	21.5 cm	1/4" LL
161412	12 Fr. (4.0 mm)	21.5 cm	1/4" LL



Packaging unit: 10 pcs./ carton, sterile packed



VENOUS RETURN CATHETERS SINGLE-STAGE



Product features:

- Non-reinforced for standard products
- Wire reinforcement for excellent kink-resistant performance
- Various sizes from 12 Fr. for pediatric applications to 41 Fr. for adult patients
- Straight and angled configurations
- Internal proximal end bevel for easier and safer connection
- Different tip choices:
 - Lighthouse tip
 - Full lumen tip
 - Basket tip
 - Bullet tip
 - Pilot tip

VENOUS RETURN CATHETERS

Single-Stage Venous Return Catheters are available in a wide range of sizes and versions. Two catheters are used for separate drainage of the superior and inferior vena cavae during cardiopulmonary bypass. The design of the various tip configurations provide excellent insertion characteristics and effective drainage. The extremely thin-walled structure combined with a kink-resistant wire reinforcement helps ensure excellent venous drainage. The flexible catheters can be easily positioned on the surgical field.

Wire reinforced, Bullet tip, straight

Specifications:

Art.No.	Outer Ø	Length	Connection size
HKV 4024 B	24 Fr. (8.0 mm)	40 cm	3/8"
HKV 4028 B	28 Fr. (9.3 mm)	40 cm	3/8"
HKV 4032 B	32 Fr. (10.7 mm)	40 cm	3/8"
HKV 4034 B	34 Fr. (11.3 mm)	40 cm	3/8"
HKV 4036 B	36 Fr. (12.0 mm)	40 cm	3/8"
HKV 4040 B	40 Fr. (13.3 mm)	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed

Wire reinforced, Lighthouse tip, straight

Specifications:

Art.No.	Outer Ø	Length	Connection size
HKV 45 L	22 Fr. (7.3 mm)	40 cm	3/8"
HKV 46 L	26 Fr. (8.7 mm)	40 cm	3/8"
HKV 47 L	30 Fr. (10.0 mm)	40 cm	3/8"
HKV 48 L	32 Fr. (10.7 mm)	40 cm	3/8"
HKV 49 L	36 Fr. (12.0 mm)	40 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed

VENOUS RETURN CATHETERS

Wire reinforced, Bullet tip, 90° bent

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
HKV 4024 B 90	24 Fr. (8.0 mm)	5 cm	40 cm	3/8"
HKV 4028 B 90	28 Fr. (9.3 mm)	7 cm	40 cm	3/8"
HKV 4032 B 90	32 Fr. (10.7 mm)	7 cm	40 cm	3/8"
HKV 4034 B 90	34 Fr. (11.3 mm)	7 cm	40 cm	3/8"
HKV 4036 B 90	36 Fr. (12.0 mm)	7 cm	40 cm	3/8"
HKV 4040 B 90	40 Fr. (13.3 mm)	7 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, Lighthouse tip, 90° bent

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
HKV 45 L 90	22 Fr. (7.3 mm)	3 cm	40 cm	3/8"
HKV 46 L 90	26 Fr. (8.7 mm)	5 cm	40 cm	3/8"
HKV 47 L 90	30 Fr. (10.0 mm)	7 cm	40 cm	3/8"
HKV 48 L 90	32 Fr. (10.7 mm)	7 cm	40 cm	3/8"
HKV 49 L 90	36 Fr. (12.0 mm)	7 cm	40 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS

These adult catheters range in sizes from 24 Fr. to 41 Fr. and have various tip types with straight or right-angled configurations and are available with or without reinforcement.



Wire reinforced with Full Lumen tip, straight

Full Lumen tip Venous Return Catheters feature a specially formed, selectively hardened distal tip for easier and safer insertion and high unobstructed venous drainage.

Specifications:

Art.No.	Outer Ø	Length	Connection size
610024	24 Fr. (8.0 mm)	40 cm	1/4"
610028	28 Fr. (9.3 mm)	40 cm	3/8"
610032	32 Fr. (10.7 mm)	40 cm	3/8"
610036	36 Fr. (12.0 mm)	40 cm	3/8"
610041	41 Fr. (13.3 mm)	40 cm	1/2"

Packaging unit: 10 pcs./ case, sterile packed



Wire reinforced with Full Lumen tip, 90° bent

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
620245	24 Fr. (8.0 mm)	5 cm	40 cm	1/4"
620246	24 Fr. (8.0 mm)	6 cm	40 cm	1/4"
620286	28 Fr. (9.3 mm)	6 cm	40 cm	3/8"
620287	28 Fr. (9.3 mm)	7 cm	40 cm	3/8"
620326	32 Fr. (10.7 mm)	6 cm	40 cm	3/8"
620327	32 Fr. (10.7 mm)	7 cm	40 cm	3/8"
620368	36 Fr. (12.0 mm)	8 cm	40 cm	3/8"
620369	36 Fr. (12.0 mm)	9 cm	40 cm	3/8"
620418	42 Fr. (13.9 mm)	8 cm	40 cm	1/2"
620419	42 Fr. (13.9 mm)	9 cm	40 cm	1/2"

Packaging unit: 10 pcs./ case, sterile packed



VENOUS RETURN CATHETERS

Venous Return Catheters without reinforcement are an alternative to the wire-reinforced catheters where the surgical risk of kinking is minimized.

Non-reinforced with Basket tip, 90° bent

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
100183	18 Fr. (6.0 mm)	3 cm	40 cm	1/4"
100184	18 Fr. (6.0 mm)	4 cm	40 cm	1/4"
100185	18 Fr. (6.0 mm)	5 cm	40 cm	1/4"
100213	21 Fr. (7.0 mm)	3 cm	40 cm	1/4"
100214	21 Fr. (7.0 mm)	4 cm	40 cm	1/4"
100215	21 Fr. (7.0 mm)	5 cm	40 cm	1/4"
100244	24 Fr. (8.0 mm)	4 cm	40 cm	1/4"
100245	24 Fr. (8.0 mm)	5 cm	40 cm	1/4"
100246	24 Fr. (8.0 mm)	6 cm	40 cm	1/4"
100285	28 Fr. (9.3 mm)	5 cm	40 cm	3/8"
100286	28 Fr. (9.3 mm)	6 cm	40 cm	3/8"
100287	28 Fr. (9.3 mm)	7 cm	40 cm	3/8"
100326	32 Fr. (10.7 mm)	6 cm	40 cm	3/8"
100327	32 Fr. (10.7 mm)	7 cm	40 cm	3/8"
100328	32 Fr. (10.7 mm)	8 cm	40 cm	3/8"
100365	36 Fr. (12.0 mm)	5 cm	40 cm	3/8"
100367	36 Fr. (12.0 mm)	7 cm	40 cm	3/8"
100368	36 Fr. (12.0 mm)	8 cm	40 cm	3/8"
100369	36 Fr. (12.0 mm)	9 cm	40 cm	3/8"
100417	41 Fr. (13.6 mm)	7 cm	40 cm	1/2"
100418	41 Fr. (13.6 mm)	8 cm	40 cm	1/2"
100419	41 Fr. (13.6 mm)	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS

Non-reinforced with Basket tip, straight

These catheters incorporate a special Basket distal tip with four large openings that provide excellent venous drainage.

Specifications:



Art.No.	Outer Ø	Length	Connection size
060018	18 Fr. (6.0 mm)	40 cm	1/4"
060021	21 Fr. (7.0 mm)	40 cm	1/4"
060024	24 Fr. (8.0 mm)	40 cm	1/4"
060028	28 Fr. (9.3 mm)	40 cm	3/8"
060032	32 Fr. (10.7 mm)	40 cm	3/8"
060036	36 Fr. (12.0 mm)	40 cm	3/8"
060041	41 Fr. (13.6 mm)	40 cm	1/2"



Packaging unit: 10 pcs. / carton, sterile packed

VENOUS RETURN CATHETERS PEDIATRIC

A very smooth surface of the inner catheter wall throughout the whole catheter combined with perfect shaped tips and flexibility of the catheter body is an essential requirement for pediatric heart surgery to allow gentle laminar blood flow. The Pediatric Venous Return Catheters are specially adapted to the small diameter blood vessels of neonates and small infants.

Wire reinforced, Bullet tip, straight

Specifications:

Art.No.	Outer Ø	Length	Connection size
HKV 2212 B	12 Fr. (4.0 mm)	22 cm	1/4"
HKV 2214 B	14 Fr. (4.7 mm)	22 cm	1/4"
HKV 2216 B	16 Fr. (5.3 mm)	22 cm	1/4"
HKV 2218 B	18 Fr. (6.0 mm)	22 cm	1/4"
HKV 2220 B	20 Fr. (6.7 mm)	22 cm	1/4"
HKV 3320 B	20 Fr. (6.7 mm)	33 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, Lighthouse tip, straight

Specifications:

Art.No.	Outer Ø	Length	Connection size
HKV 22 L	12 Fr. (4.0 mm)	25 cm	1/4"
HKV 23 L	16 Fr. (5.3 mm)	25 cm	1/4"
HKV 34 L	20 Fr. (6.7 mm)	33 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS PEDIATRIC

Wire reinforced, straight, Pilot tip

Specifications:

Art.No.	Outer Ø	Length	Connection size
HKV 22 P	12 Fr. (4.0 mm)	25 cm	1/4"
HKV 23 P	16 Fr. (5.3 mm)	25 cm	1/4"
HKV 34 P	20 Fr. (6.7 mm)	33 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed

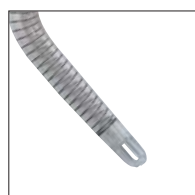


Wire reinforced, 90° bent, Bullet tip

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
HKV 2212 B 90	12 Fr. (4.0 mm)	2.5 cm	22 cm	1/4"
HKV 2214 B 90	14 Fr. (4.7 mm)	2.5 cm	22 cm	1/4"
HKV 2216 B 90	16 Fr. (5.3 mm)	2.5 cm	22 cm	1/4"
HKV 2218 B 90	18 Fr. (6.0 mm)	2.5 cm	22 cm	1/4"
HKV 2220 B 90	20 Fr. (6.7 mm)	5.0 cm	22 cm	1/4"
HKV 3320 B 90	20 Fr. (6.7 mm)	5.0 cm	33 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS

PEDIATRIC

Wire reinforced, 90° bent, Lighthouse tip

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
HKV 22 L 90	12 Fr. (4.0 mm)	2.5 cm	25 cm	1/4"
HKV 23 L 90	16 Fr. (5.3 mm)	2.5 cm	25 cm	1/4"
HKV 34 L 90	20 Fr. (6.7 mm)	3.0 cm	33 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced, 90° bent, Pilot tip

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
HKV 22 P 90	12 Fr. (4.0 mm)	2.5 cm	25 cm	1/4"
HKV 23 P 90	16 Fr. (5.3 mm)	2.5 cm	25 cm	1/4"
HKV 34 P 90	20 Fr. (6.7 mm)	3.0 cm	33 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS PEDIATRIC

Non-reinforced with Full Lumen tip, straight

Full Lumen tip Venous Return Catheters feature a specially formed, selectively hardened distal tip for easier and safer insertion and high unobstructed venous drainage.

Specifications:

Art.No.	Outer Ø	Length	Connection size
145012	12 Fr. (4.0 mm)	25 cm	1/4"
145014	14 Fr. (4.7 mm)	25 cm	1/4"
145016	16 Fr. (5.3 mm)	25 cm	1/4"
145018	18 Fr. (6.0 mm)	25 cm	1/4"
145021	21 Fr. (7.0 mm)	25 cm	1/4"
145024	24 Fr. (8.0 mm)	25 cm	1/4"

Packaging unit: 10 pcs./ case, sterile packed



Non-reinforced with Full Lumen tip, 90° bent

Specifications:

Art.No.	Outer Ø	Tip	Length	Connection size
145122	12 Fr. (4.0 mm)	2.5 cm	25 cm	1/4"
145142	14 Fr. (4.7 mm)	2.5 cm	25 cm	1/4"
145162	16 Fr. (5.3 mm)	2.5 cm	25 cm	1/4"
145183	18 Fr. (6.0 mm)	3.0 cm	25 cm	1/4"
145213	21 Fr. (7.0 mm)	3.0 cm	25 cm	1/4"
145243	24 Fr. (8.0 mm)	3.0 cm	25 cm	1/4"

Packaging unit: 10 pcs./ case, sterile packed



VENOUS RETURN CATHETERS

PEDIATRIC

These Pediatric Venous Return Catheters range in sizes from 12 Fr. to 24 Fr. with straight or right-angled configurations. The Full Lumen tip features a specially formed, selectively hardened distal tip for easier and safer insertion and high unobstructed venous drainage.

Wire reinforced with Full Lumen tip, straight

Specifications:

Art.No.	Outer Ø	Length	Connection size
630012	12 Fr. (4.0 mm)	25 cm	1/4"
630014	14 Fr. (4.7 mm)	25 cm	1/4"
630016	16 Fr. (5.3 mm)	25 cm	1/4"
630018	18 Fr. (6.0 mm)	25 cm	1/4"
630021	21 Fr. (7.0 mm)	25 cm	1/4"
630024	24 Fr. (8.0 mm)	25 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



Wire reinforced with Full Lumen tip, 90° bent

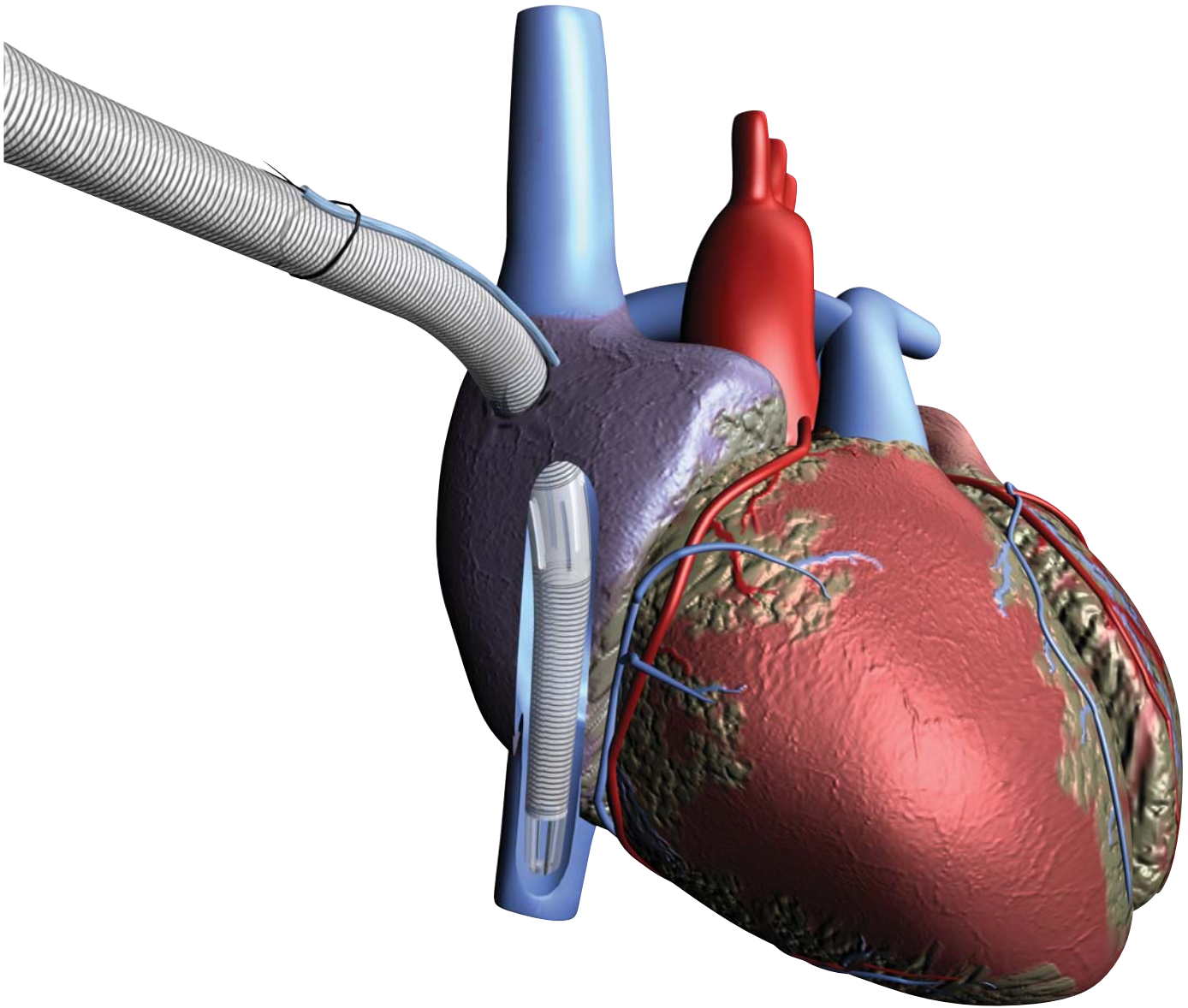
Specifications:

Art.No.	Outer Ø	Length	Connection size
640122	12 Fr. (4.0 mm)	25 cm	1/4"
640142	14 Fr. (4.7 mm)	25 cm	1/4"
640162	16 Fr. (5.3 mm)	25 cm	1/4"
640183	18 Fr. (6.0 mm)	25 cm	1/4"
640213	21 Fr. (7.0 mm)	25 cm	1/4"
640243	24 Fr. (8.0 mm)	25 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS TWO-STAGE



Product features:

- Non-reinforced for standard products
- Wire reinforcement for higher kink-resistance
- Various sizes starting at 28 Fr. distal up to 52 Fr. proximal
- Elliptic profile and angled versions at 90° and 120°
- Versions for VAVD applications
- Various connector choices
- Different tip choices:
 - Lighthouse tip
 - Basket tip
 - Bullet tip

VENOUS RETURN CATHETERS TWO-STAGE

Venous Two-Stage Catheters are available in a wide range of sizes and versions. The distal end of the catheter is placed in the inferior vena cava and the proximal part in the right atrium. The design of the various tip types allows excellent insertion characteristics and effective drainage. The thin-walled structure combined with a kink-resistant transition basket ensures gentle flow performance. The highly flexible catheter can be positioned easily outside the surgical site.



Non-reinforced, Bullet tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
T 3439 B*	34 Fr./39 Fr.	40 cm	1/2"
T 3651 B	36 Fr./51 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed * available on request



VENOUS RETURN CATHETERS

TWO-STAGE

Proximal reinforcement, Bullet-tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TP 3439 B*	34 Fr./39 Fr.	47 cm	1/2"
TP 3651 B	36 Fr./51 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed * available on request



Proximal reinforcement, Bullet-tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
TP 3439 B-86	34 Fr./39 Fr.	47 cm	1/2"
TP 3651 B-86	36 Fr./51 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS TWO-STAGE



Complete reinforcement, Bullet tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TPD 3439 B S1	34 Fr./39 Fr.	40 cm	1/2"
TPD 3439 B	34 Fr./39 Fr.	47 cm	1/2"
TPD 3651 B	36 Fr./51 Fr.	40 cm	1/2"
TPD 3651 B KS	36 Fr./51 Fr.	52 cm	1/2"
TPD 3651 B S1	36 Fr./51 Fr.	37 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Bullet tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
TPD 3439 B-86 S1	34 Fr./39 Fr.	40 cm	1/2"
TPD 3439 B-86	34 Fr./39 Fr.	47 cm	1/2"
TPD 3651 B-86	36 Fr./51 Fr.	40 cm	1/2"
TPD 3651 B-86-KS	36 Fr./51 Fr.	52 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Bullet tip, with pre-mounted Luer lock connector

SPECIFICATIONS

Art.No.	Outer Ø	Length	Connector
TPD 3439 B-87 S1	34Fr./39Fr.	40 cm	1/2" LL
TPD 3439 B-87	34Fr./39Fr.	47 cm	1/2" LL
TPD 3651 B-87	36Fr./51Fr.	40 cm	1/2" LL

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS

TWO-STAGE

Complete reinforcement, 90° bent, Bullet tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TPD 3651 B 90	36 Fr./51 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Lighthouse tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TPD 3651 L	36 Fr./51 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed

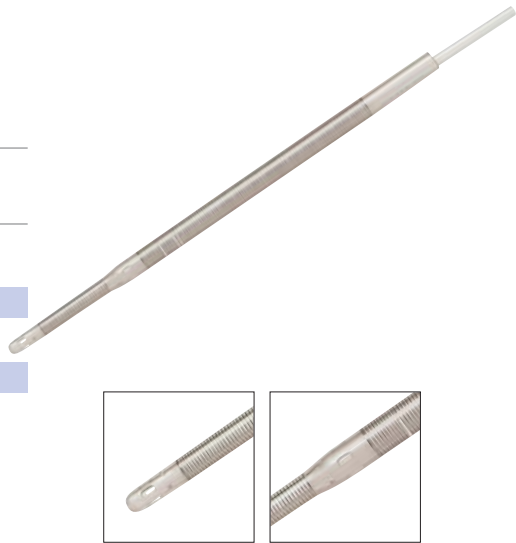


Complete reinforcement, Lighthouse tip, Lighthouse transition, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TPD 3444 L-SUI	34 Fr./44 Fr.	40 cm	1/2"
TPD 3651 L-SUI	36 Fr./51 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS TWO-STAGE

Complete reinforcement with Basket tip, straight

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
670045	36 Fr./52 Fr.	7.5 cm	42 cm	-
670145	36 Fr./52 Fr.	7.5 cm	42 cm	1/2"
672045	36 Fr./52 Fr.	4.0 cm	42 cm	-
672145	36 Fr./52 Fr.	4.0 cm	42 cm	1/2"

Packaging unit: 10 pcs. / case, sterile packed

Proximal reinforcement with Basket tip, straight

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
670545	36 Fr./52 Fr.	7.5 cm	42 cm	-
671545	36 Fr./52 Fr.	7.5 cm	42 cm	1/2"
675045	36 Fr./52 Fr.	4.0 cm	42 cm	-
675145	36 Fr./52 Fr.	4.0 cm	42 cm	1/2"

Packaging unit: 10 pcs. / case, sterile packed

Non-reinforced with Basket tip, straight

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
411052	36 Fr./52 Fr.	7.5 cm	42 cm	-
411152	36 Fr./52 Fr.	7.5 cm	42 cm	1/2"
412052	36 Fr./52 Fr.	4.0 cm	42 cm	-
412152	36 Fr./52 Fr.	4.0 cm	42 cm	1/2"

Packaging unit: 10 pcs. / case, sterile packed

VENOUS RETURN CATHETERS

TWO-STAGE

The SLIM line is the latest generation of two-stage catheters. They are highly flexible and the risk of kinking is reduced due to the excellent combination of thin catheter walls and tight wire reinforcement. This thin walled catheter design offers a low profile with optimal flows.

Complete reinforcement, Bullet tip, without connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connection size
TS 3240 B	32 Fr./40 Fr.	9 cm	40 cm	1/2"
TS 3648 B	36 Fr./48 Fr.	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed

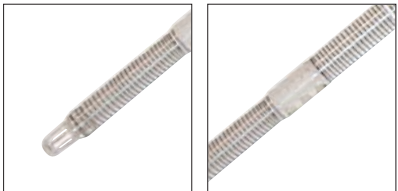


Complete reinforcement, Bullet tip, without connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connection size
TS 2832 B	28 Fr./32 Fr.	6 cm	40 cm	3/8"
TS 3237 B	32 Fr./37 Fr.	9 cm	40 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS TWO-STAGE



Complete reinforcement, Bullet tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
TS 3240 B-86	32 Fr./40 Fr.	9 cm	40 cm	1/2"
TS 3648 B-86	36 Fr./48 Fr.	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Bullet tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
TS 2832 B-84	28 Fr./32 Fr.	6 cm	40 cm	3/8"
TS 3237 B-84	32 Fr./37 Fr.	9 cm	40 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Bullet tip, with pre-mounted Luer lock connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
TS 3240 B-87	32 Fr./40 Fr.	9 cm	40 cm	1/2" LL
TS 3648 B-87	36 Fr./48 Fr.	9 cm	40 cm	1/2" LL

Packaging unit: 10 pcs. / carton, sterile packed

VENOUS RETURN CATHETERS

TWO-STAGE

Complete reinforcement, Lighthouse tip, without connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connection size
TS 3240 L	32 Fr./40 Fr.	9 cm	40 cm	1/2"
TS 3648 L	36 Fr./48 Fr.	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Lighthouse tip, without connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connection size
TS 2832 L	28 Fr./32 Fr.	8 cm	40 cm	1/2"
TS 3237 L	32 Fr./37 Fr.	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS TWO-STAGE

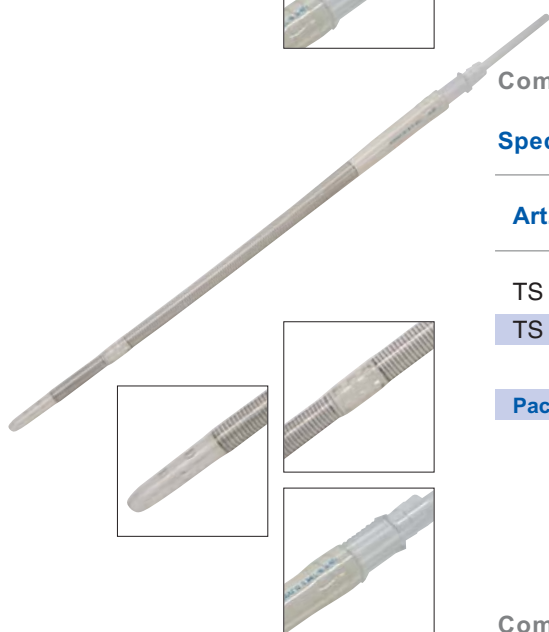


Complete reinforcement, Lighthouse tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
TS 3240 L-86	32 Fr./40 Fr.	9 cm	40 cm	1/2"
TS 3648 L-86	36 Fr./48 Fr.	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Lighthouse tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connector
TS 2832 L-84	28 Fr./32 Fr.	8 cm	40 cm	3/8"
TS 3237 L-84	32 Fr./37 Fr.	9 cm	40 cm	3/8"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, Lighthouse tip, pre-bent 120°, without connector

Specifications:

Art.No.	Outer Ø	Distal part	Length	Connection size
TS 3240 L 120	32 Fr./40 Fr.	9 cm	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed

VENOUS RETURN CATHETERS

TWO-STAGE

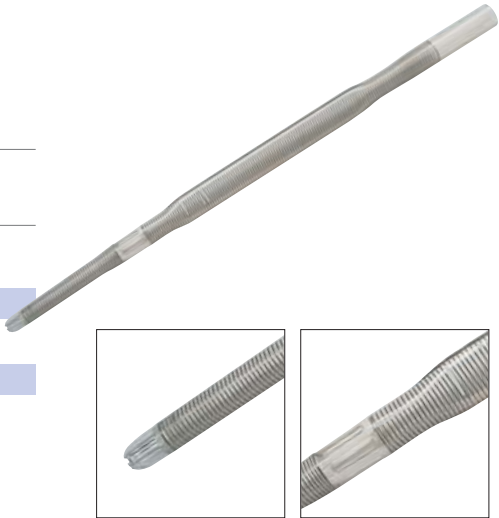
The SLIM line Two-Stage ELLIPTIC is a low profile single piece catheter. Due to the design of the catheter, it is ideal for use during minimally invasive procedures. The low profile catheter offers high flexibility due to the combination of a thin catheter wall and tight wire reinforcement.

Complete reinforcement, elliptic proximal body, Bullet tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TS 3240 B M*	32 Fr./40 Fr.	40 cm	1/2"
TS 3648 B M*	36 Fr./48 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed * available on request



Complete reinforcement, elliptic proximal body, Lighthouse tip, without connector

Specifications:

Art.No.	Outer Ø	Length	Connection size
TS 3240 L M	32 Fr./40 Fr.	40 cm	1/2"
TS 3648 L M	36 Fr./48 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS TWO-STAGE

Complete reinforcement, elliptic proximal body, Lighthouse tip, with pre-mounted connector

Specifications:

Art.No.	Outer Ø	Length	Connector
TS 3240 L-86 M	32 Fr./40 Fr.	40 cm	1/2"
TS 3648 L-86 M	36 Fr./48 Fr.	40 cm	1/2"

Packaging unit: 10 pcs. / carton, sterile packed



Complete reinforcement, elliptic proximal body, Lighthouse tip, with pre-mounted Luer lock connector

Specifications:

Art.No.	Outer Ø	Length	Connector
TS 3240 L-87 M	32 Fr./40 Fr.	40 cm	1/2" LL
TS 3648 L-87 M	36 Fr./48 Fr.	40 cm	1/2" LL

Packaging unit: 10 pcs. / carton, sterile packed



VENOUS RETURN CATHETERS

THREE-STAGE

The new SLIM Three-Stage Venous Catheter with two atrial drainage baskets ensures consistent optimal flow with higher protection against atrial wall impingement. The new two sizes with highest flexibility without the risk of kinking is reached due to the excellent combination of thin catheter walls and tight wire-reinforcement. Three-Stage Venous Catheters can be used for small adults, for vacuum assisted venous drainage as well as for MAQUET's well established MECC System.

Complete reinforcement, Lighthouse tip, without connector

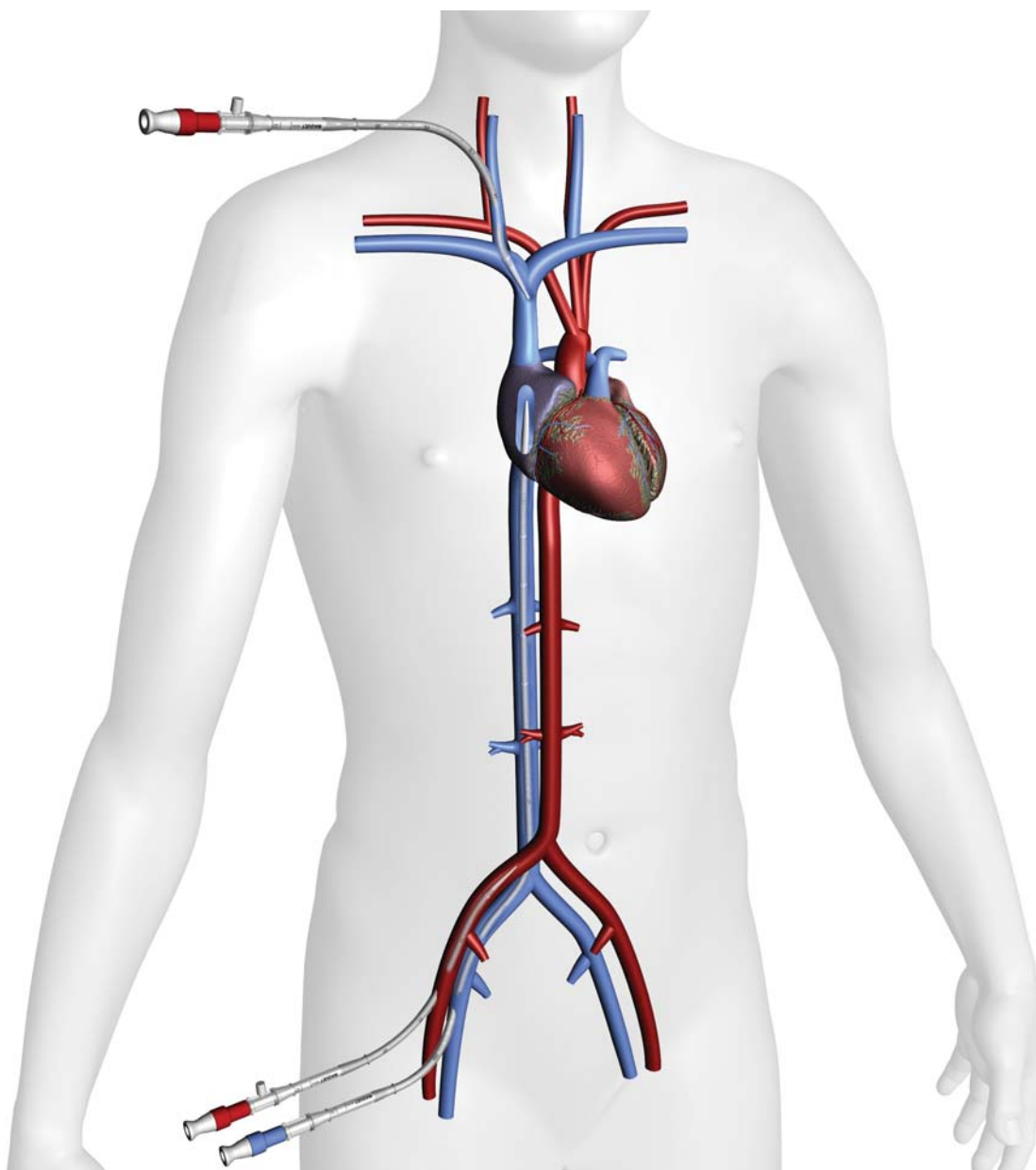
Specifications:

Art.No.	Outer Ø	Distal part	Length	Connection size
TRS 2832 L	28/32/32 Fr.	11 cm	40 cm	3/8"
TRS 3237 L	32/37/37 Fr.	11 cm	40 cm	3/8"

Packaging unit: 10 pcs. / case, sterile packed



PERIPHERAL CANNULAE



Product features:

- Sizes from 15 Fr. to 29 Fr.
- Different insertion lengths are available
- Locked introducer to keep introducer in place during insertion
- Optimized transition between introducer and cannula tip
- Unique depth marks to control the insertion depth
- Stop-ring defines maximum insertion depth
- Selective hardened proximal cannula body to prevent kinking after insertion
- A pair of side holes on every arterial tip
- Alternating pairs of side holes on every venous cannula
- All side holes are reinforced to prevent kinking
- All cannulae can be inserted percutaneously over a 0.038" guidewire
- BIOLINE coated version are available
- Extended application time of 30 days in combination with a long-term approved PLS or HLS System

PERIPHERAL CANNULAE

The HLS Cannula is a wire-reinforced, thin-wall cannula made of polyurethane. The transparent proximal section has no reinforcement and can be clamped. Each cannula is supplied with a pre-mounted 3/8" connector and an introducer that allows a guidewire up to 0.038" to be inserted. The cannula is available with an optional insertion kit for the Seldinger technique and optional BIOLINE Coating. The HLS Cannula comes in a range of sizes and lengths and with a skin fixation device.

Arterial HLS Cannula, uncoated

Art.No.	Outer Ø	Insertion length	Side holes	Perforation length	Connector
PAS 1515	15 Fr. (5.0 mm)	15 cm	2	1 cm	3/8" LL
PAS 1715	17 Fr. (5.7 mm)	15 cm	2	1 cm	3/8" LL
PAS 1915	19 Fr. (6.3 mm)	15 cm	2	1 cm	3/8" LL
PAS 2115	21 Fr. (7.0 mm)	15 cm	2	1 cm	3/8" LL
PAS 2315	23 Fr. (7.7 mm)	15 cm	2	1 cm	3/8" LL
PAL 1523	15 Fr. (5.0 mm)	23 cm	2	1 cm	3/8" LL
PAL 1723	17 Fr. (5.7 mm)	23 cm	2	1 cm	3/8" LL
PAL 1923	19 Fr. (6.3 mm)	23 cm	2	1 cm	3/8" LL
PAL 2123	21 Fr. (7.0 mm)	23 cm	2	1 cm	3/8" LL
PAL 2323	23 Fr. (7.7 mm)	23 cm	2	1 cm	3/8" LL

Packaging unit: 1 pcs. / carton, sterile packed

Arterial HLS Cannula, BIOLINE coated

Art.No.	Outer Ø	Insertion length	Side holes	Perforation length	Connector
BE-PAS 1515	15 Fr. (5.0 mm)	15 cm	2	1 cm	3/8" LL
BE-PAS 1715	17 Fr. (5.7 mm)	15 cm	2	1 cm	3/8" LL
BE-PAS 1915	19 Fr. (6.3 mm)	15 cm	2	1 cm	3/8" LL
BE-PAS 2115	21 Fr. (7.0 mm)	15 cm	2	1 cm	3/8" LL
BE-PAS 2315	23 Fr. (7.7 mm)	15 cm	2	1 cm	3/8" LL
BE-PAL 1523	15 Fr. (5.0 mm)	23 cm	2	1 cm	3/8" LL
BE-PAL 1723	17 Fr. (5.7 mm)	23 cm	2	1 cm	3/8" LL
BE-PAL 1923	19 Fr. (6.3 mm)	23 cm	2	1 cm	3/8" LL
BE-PAL 2123	21 Fr. (7.0 mm)	23 cm	2	1 cm	3/8" LL
BE-PAL 2323	23 Fr. (7.7 mm)	23 cm	2	1 cm	3/8" LL

Packaging unit: 1 pcs. / carton, sterile packed



PERIPHERAL CANNULAE

Venous HLS Cannula, uncoated

Art.No.	Outer Ø	Insertion length	Side holes	Perforation length	Connector
PVS 1938	19 Fr. (6.3 mm)	38 cm	12	10	3/8"
PVS 2138	21 Fr. (7.0 mm)	38 cm	12	10	3/8"
PVS 2338	23 Fr. (7.7 mm)	38 cm	16	10	3/8"
PVS 2538	25 Fr. (8.3 mm)	38 cm	20	10	3/8"
PVL 2155	21 Fr. (7.0 mm)	55 cm	20	20	3/8"
PVL 2355	23 Fr. (7.7 mm)	55 cm	20	20	3/8"
PVL 2555	25 Fr. (8.3 mm)	55 cm	24	20	3/8"
PVL 2955	29 Fr. (9.7 mm)	55 cm	32	20	3/8"

Packaging unit: 1 pcs. / carton, sterile packed

Venous HLS Cannula, BIOLINE coated

Art.No.	Outer Ø	Insertion length	Side holes	Perforation length	Connector
BE-PVS 1938	19 Fr. (6.3 mm)	38 cm	12	10	3/8"
BE-PVS 2138	21 Fr. (7.0 mm)	38 cm	12	10	3/8"
BE-PVS 2338	23 Fr. (7.7 mm)	38 cm	16	10	3/8"
BE-PVS 2538	25 Fr. (8.3 mm)	38 cm	20	10	3/8"
BE-PVL 2155	21 Fr. (7.0 mm)	55 cm	20	20	3/8"
BE-PVL 2355	23 Fr. (7.7 mm)	55 cm	20	20	3/8"
BE-PVL 2555	25 Fr. (8.3 mm)	55 cm	24	20	3/8"
BE-PVL 2955	29 Fr. (9.7 mm)	55 cm	32	20	3/8"

Packaging unit: 1 pcs. / carton, sterile packed



PERIPHERAL CANNULAE ACCESSORIES

The Insertion Kit comprises various components which permit percutaneous access to the vessel. One Insertion Kit is available for the arterial cannula and one for the venous cannula.

Components:

- 18 gauge puncture needle
- 4 multi-step dilatator 10/12 Fr – 12/14 Fr – 14/16 Fr – 16/18 Fr
- 0.038" x 100 cm with J-tip for arterial cannula
- 0.038" x 150 cm with J-tip for venous cannula
- Guidewire advancer
- Blade scalpel
- 20 mL syringe

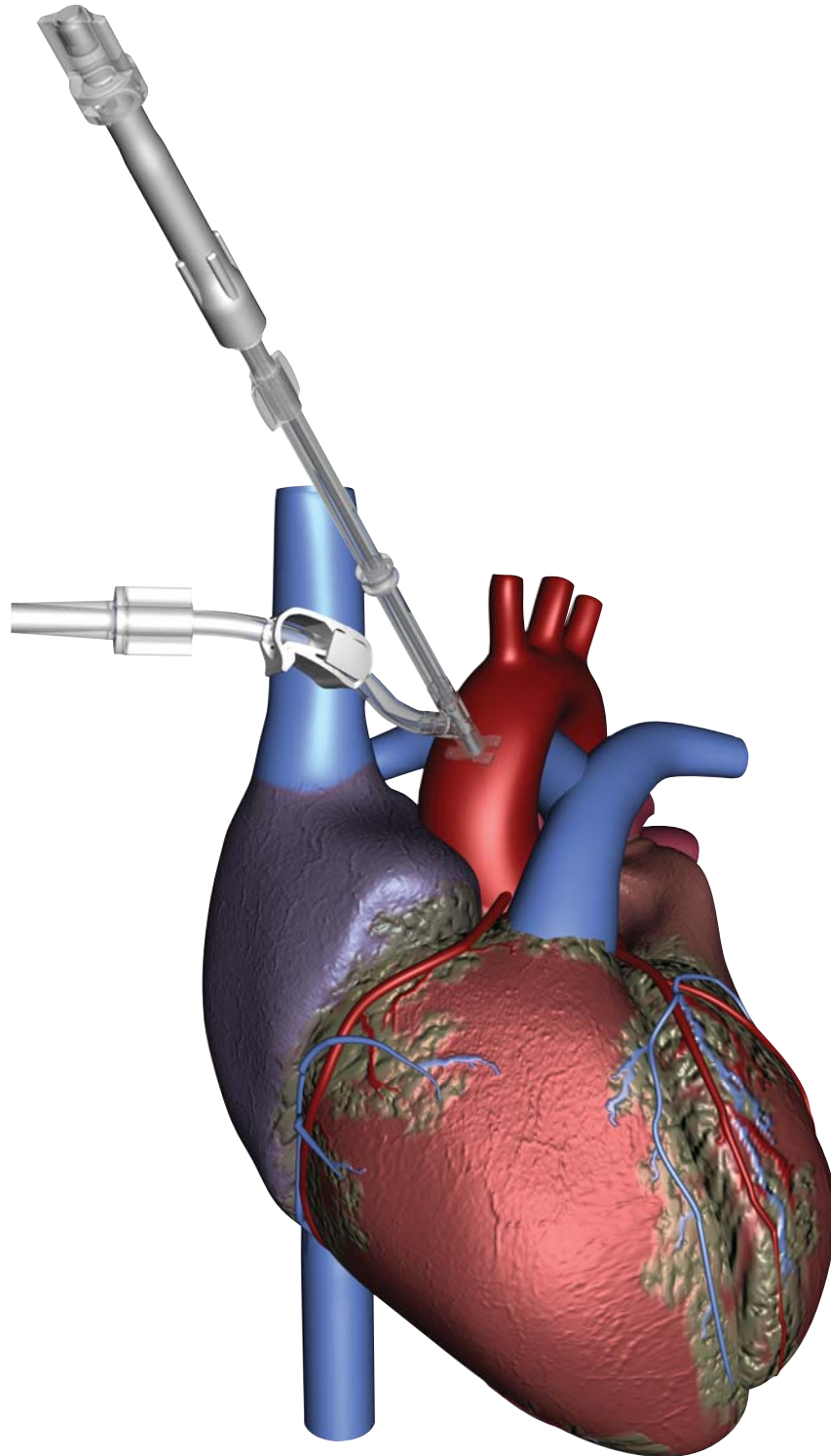
Percutaneous Insertion Kit

Art.No.	Guidewire length	Description
PIK 100	100 cm	For Arterial HLS Cannula
PIK 150	150 cm	For Venous HLS Cannula

Packaging unit: 1 pcs. / carton, sterile packed



ANTEGRADE CARDIOPLEGIA CANNULAE



Product features:

- Available in 7, 9 and 11 Fr. sizes
- Standard cap or protection cap where the sharp needle is removed safely into a unique protective cap
- Side holes in tip and fixation flange
- Vent line at different positions available
- Version with incorporated pressure monitoring line
- Excellent handling qualities

ANTEGRADE CARDIOPLEGIA CANNULAE

Antegrade Cardioplegia Cannulae are available in different versions. All serve as infusion cannulae for cardioplegia solution, drainage and air/bubble venting. The innovative design of these cannulae is reflected particularly by excellent handling qualities.

Without protection system, without vent line

Specifications:

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen
CAS 16	7 Fr. (2.3 mm)	1.6 mm	16 ga	LL-female
CAS 21	9 Fr. (2.9 mm)	2.1 mm	14 ga	LL-female
CAS 25	11 Fr. (3.6 mm)	2.5 mm	12 ga	LL-female

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

With vent line at the proximal end, without protection system

Specifications:

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen	Connection vent lumen
CAS 16 V	7 Fr. (2.3 mm)	1.6 mm	16 ga	LL-female	1/4"
CAS 21 V	9 Fr. (2.9 mm)	2.1 mm	14 ga	LL-female	1/4"
CAS 25 V	11 Fr. (3.6 mm)	2.5 mm	12 ga	LL-female	1/4"

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

ANTEGRADE CARDIOPLEGIA CANNULAE

With vent line at the distal end, without protection system

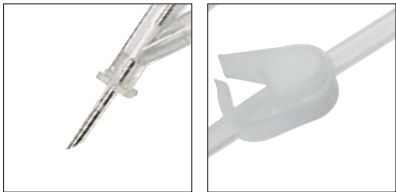
Specifications

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen	Connection vent lumen
CAS 16 V-V	7 Fr. (2.3 mm)	1.6 mm	16 ga	LL-female	1/4"
CAS 21 V-V	9 Fr. (2.9 mm)	2.1 mm	14 ga	LL-female	1/4"
CAS 25 V-V	11 Fr. (3.6 mm)	2.5 mm	12 ga	LL-female	1/4"

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



ANTEGRADE CARDIOPLEGIA CANNULAE

The safety version is equipped with a special safety system to minimize needle-stick injuries. The sharp needle is removed safely into a protective cap.

Without vent line, with protection system

Specifications:



Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen
CA 16	7 Fr. (2.3 mm)	1.6 mm	16 ga	LL-female
CA 21	9 Fr. (2.9 mm)	2.1 mm	14 ga	LL-female
CA 25	11 Fr. (3.6 mm)	2.5 mm	12 ga	LL-female

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:



Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



ANTEGRADE CARDIOPLEGIA CANNULAE

With vent line at the proximal end, with protection system

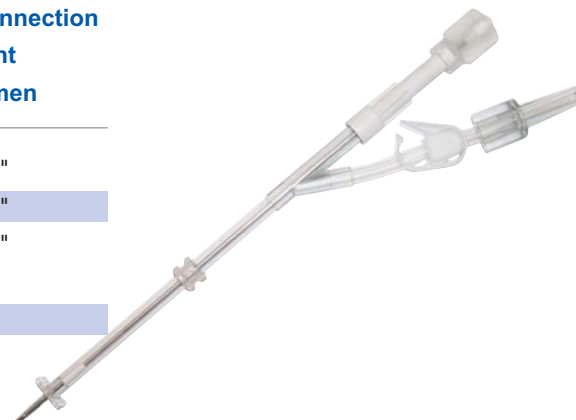
Specifications:

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen	Connection vent lumen
CA 16 V	7 Fr. (2.3 mm)	1.6 mm	16 ga	LL-female	1/4"
CA 21 V	9 Fr. (2.9 mm)	2.1 mm	14 ga	LL-female	1/4"
CA 25 V	11 Fr. (3.6 mm)	2.5 mm	12 ga	LL-female	1/4"

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



With vent line at the proximal end, with pressure monitoring line with protection system

Specifications:

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen	Connection vent lumen	Connection pressure line
CA 16 VP	11 Fr.	1.6 mm	16 ga	LL-female	1/4"	LL-female
CA 21 VP	13 Fr.	2.1 mm	14 ga	LL-female	1/4"	LL-female

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



ANTEGRADE CARDIOPLEGIA CANNULAE

With vent line at the distal tip, with protection system

Specifications:

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen	Connection vent lumen
CA 16 V-V	7 Fr. (2.3 mm)	1.6 mm	16 ga	LL-female	1/4"
CA 21 V-V	9 Fr. (2.9 mm)	2.1 mm	14 ga	LL-female	1/4"
CA 25 V-V	11 Fr. (3.6 mm)	2.5 mm	12 ga	LL-female	1/4"

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

With vent line at the distal tip, with protection system and pressure monitoring line

Specifications:

Art.No.	Outer Ø	Inner Ø	Needle Outer Ø	Connection infusion lumen	Connection vent lumen	Connection pressure line
CA 16 VP-V	11 Fr.	1.6 mm	16 ga	LL-female	1/4"	LL-female
CA 21 VP-V	13 Fr.	2.1 mm	14 ga	LL-female	1/4"	LL-female

Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

ANTEGRADE CARDIOPLEGIA CANNULAE

Antegrade Cardioplegia Cannulae without introducer are available in a wide range of configurations. Multiple side holes allow optimal venting of the aorta.

Inner Ø: 1.5 mm

Outer Ø: 8 Fr.

Specifications:

Art.No.	Tip shape	Tip end	Tip length	Side holes	Flange	Connection
CS 01	Bent	Blunt	15 mm	4	Closed	3/16"
CS 02	Bent	Blunt	15 mm	4	Open	3/16"
CS 03	Bent	Blunt	25 mm	4	Open	3/16"
CS 04	Bent	Bevel	22 mm	8	Open	3/16"
CS 05	Bent	Bevel	22 mm	8	Closed	3/16"
CS 06	Straight	Bevel	22 mm	8	Closed	3/16"
CS 07	Straight	Bevel	15 mm	0	Open	3/16"
CS 08	Bent	Bevel	15 mm	4	Open	3/16"
CS 09	Straight	Bevel	12 mm	0	Open	3/16"

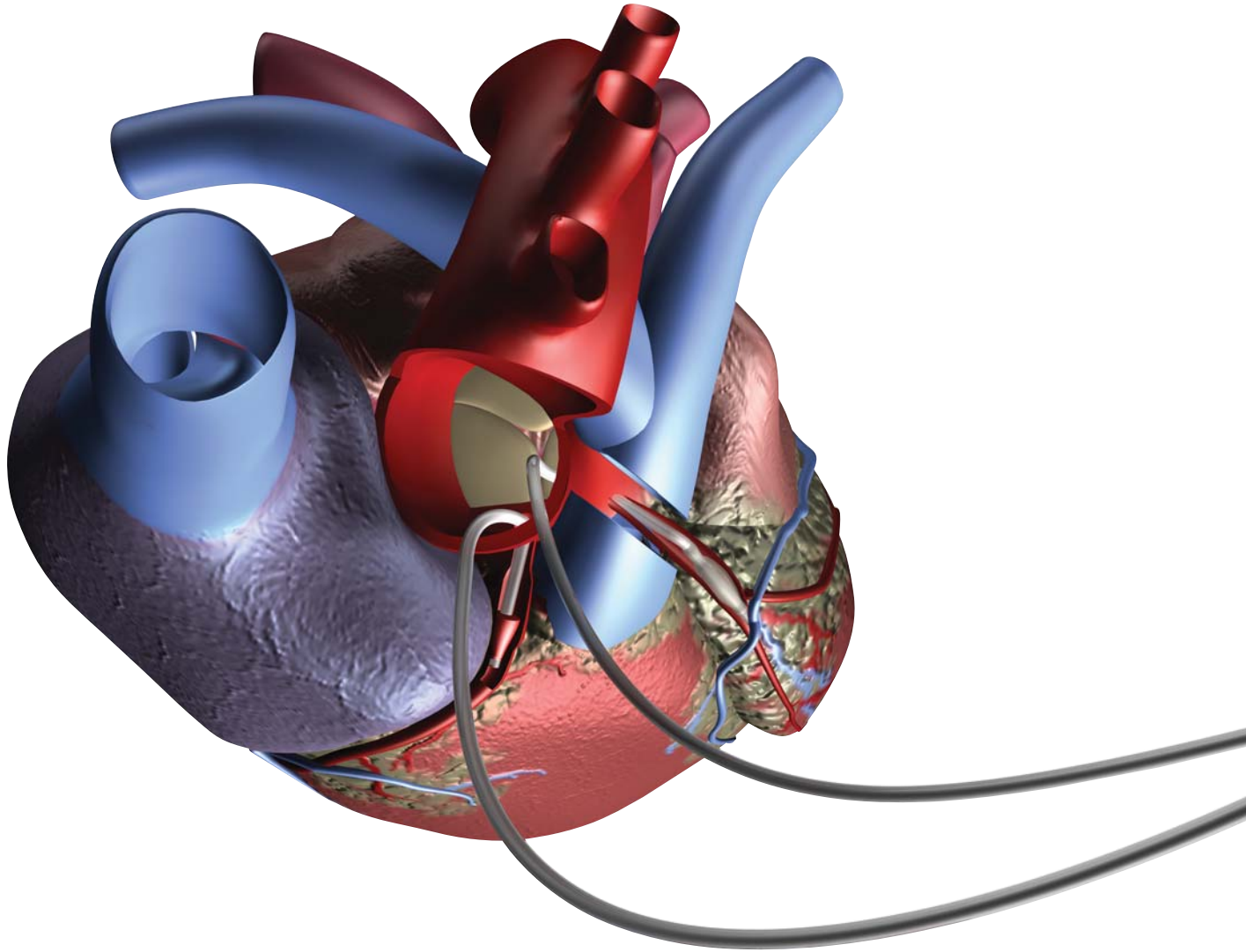
Packaging unit: 10 pcs. / carton, sterile packed

Accessories:

Cardioplegia set crystalloid	P-0150
Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100



CORONARY PERFUSION CANNULAE



Product features:

- Designed for direct coronary perfusion via the coronary ostia
- Self-inflating or cone tip configurations available
- Self-inflating balloon in various sizes from 6.0 mm to 9.0 mm
- Cone tip in various sizes from 5.0 mm and to 7.5 mm
- Straight and right-angled tip configurations
- Female adaptor for 1/4" connector or a female Luer lock fitting
- Excellent handling qualities and long clinical use

CORONARY PERFUSION CANNULAE

All balloon and cone tip cannulae are available with a straight or right-angle tip configuration and with either a proximal end female adaptor that accepts a 1/4" connector or a female Luer lock fitting.

Self-inflating balloon tip, straight, 1/4"

Specifications:

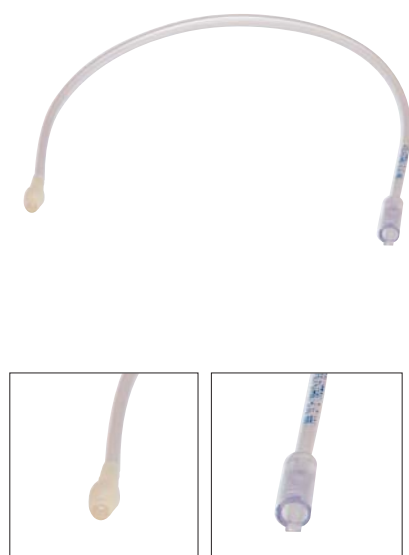


Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Balloon outer Ø	Length	Connection
210800	Hard	3.0 mm	2.0 mm	6.0 mm	27 cm	1/4"
210801	Hard	3.0 mm	2.0 mm	7.0 mm	27 cm	1/4"
210802	Hard	3.5 mm	2.5 mm	8.0 mm	27 cm	1/4"
210803	Hard	4.0 mm	3.0 mm	9.0 mm	27 cm	1/4"
220797	Soft	2.1 mm	1.5 mm	4.0 mm	27 cm	1/4"
210810	Soft	3.0 mm	2.0 mm	6.0 mm	27 cm	1/4"
210811	Soft	3.0 mm	2.0 mm	7.0 mm	27 cm	1/4"
210812	Soft	3.5 mm	2.5 mm	8.0 mm	27 cm	1/4"
210813	Soft	4.0 mm	3.0 mm	9.0 mm	27 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed

Self-inflating balloon tip, straight, Luer lock

Specifications:



Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Balloon outer Ø	Length	Connection
215800	Hard	3.0 mm	2.0 mm	6.0 mm	27 cm	LL-female
215801	Hard	3.0 mm	2.0 mm	7.0 mm	27 cm	LL-female
215802	Hard	3.5 mm	2.5 mm	8.0 mm	27 cm	LL-female
215803	Hard	4.0 mm	3.0 mm	9.0 mm	27 cm	LL-female
225797	Soft	2.1 mm	1.5 mm	4.0 mm	27 cm	LL-female
215810	Soft	3.0 mm	2.0 mm	6.0 mm	27 cm	LL-female
215811	Soft	3.0 mm	2.0 mm	7.0 mm	27 cm	LL-female
215812	Soft	3.5 mm	2.5 mm	8.0 mm	27 cm	LL-female
215813	Soft	4.0 mm	3.0 mm	9.0 mm	27 cm	LL-female

Packaging unit: 10 pcs. / carton, sterile packed

CORONARY PERFUSION CANNULAE

Self-inflating balloon tip, right-angle, 1/4"

Specifications:

Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Balloon outer Ø	Length	Connection
210804	Hard	3.0 mm	2.0 mm	6.0 mm	27 cm	1/4"
210805	Hard	3.0 mm	2.0 mm	7.0 mm	27 cm	1/4"
210806	Hard	3.5 mm	2.5 mm	8.0 mm	27 cm	1/4"
210807	Hard	4.0 mm	3.0 mm	9.0 mm	27 cm	1/4"
220897	Soft	2.1 mm	1.5 mm	4.0 mm	27 cm	1/4"
210814	Soft	3.0 mm	2.0 mm	6.0 mm	27 cm	1/4"
210815	Soft	3.0 mm	2.0 mm	7.0 mm	27 cm	1/4"
210816	Soft	3.5 mm	2.5 mm	8.0 mm	27 cm	1/4"
210817	Soft	4.0 mm	3.0 mm	9.0 mm	27 cm	1/4"



Packaging unit: 10 pcs. / carton, sterile packed

Self-inflating balloon tip, right-angle, Luer lock

Specifications:

Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Balloon outer Ø	Length	Connection
215804	Hard	3.0 mm	2.0 mm	6.0 mm	27 cm	LL-female
215805	Hard	3.0 mm	2.0 mm	7.0 mm	27 cm	LL-female
215806	Hard	3.5 mm	2.5 mm	8.0 mm	27 cm	LL-female
215807	Hard	4.0 mm	3.0 mm	9.0 mm	27 cm	LL-female
225897	Soft	2.1 mm	1.5 mm	4.0 mm	27 cm	LL-female
215814	Soft	3.0 mm	2.0 mm	6.0 mm	27 cm	LL-female
215815	Soft	3.0 mm	2.0 mm	7.0 mm	27 cm	LL-female
215816	Soft	3.5 mm	2.5 mm	8.0 mm	27 cm	LL-female
215817	Soft	4.0 mm	3.0 mm	9.0 mm	27 cm	LL-female

Packaging unit: 10 pcs. / carton, sterile packed



CORONARY PERFUSION CANNULAE

Cone tip, straight, 1/4"

Specifications:

Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Cone tip outer Ø	Length	Connection
230854	Hard	3.0 mm	2.0 mm	5.0 mm	27 cm	1/4"
230853	Hard	3.5 mm	2.5 mm	5.8 mm	27 cm	1/4"
230852	Hard	4.0 mm	3.0 mm	6.8 mm	27 cm	1/4"
230851	Hard	4.0 mm	3.0 mm	7.5 mm	27 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



Cone tip, straight, Luer lock

Specifications:

Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Cone tip outer Ø	Length	Connection
235854	Hard	3.0 mm	2.0 mm	5.0 mm	27 cm	LL-female
235853	Hard	3.5 mm	2.5 mm	5.8 mm	27 cm	LL-female
235852	Hard	4.0 mm	3.0 mm	6.8 mm	27 cm	LL-female
235851	Hard	4.0 mm	3.0 mm	7.5 mm	27 cm	LL-female

Packaging unit: 10 pcs. / carton, sterile packed



CORONARY PERFUSION CANNULAE

Cone tip, right-angle, 1/4"

Specifications:

Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Cone tip outer Ø	Length	Connection
230859	Hard	3.0 mm	2.0 mm	5.0 mm	27 cm	1/4"
230858	Hard	3.5 mm	2.5 mm	5.8 mm	27 cm	1/4"
230857	Hard	4.0 mm	3.0 mm	6.8 mm	27 cm	1/4"
230856	Hard	4.0 mm	3.0 mm	7.5 mm	27 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed

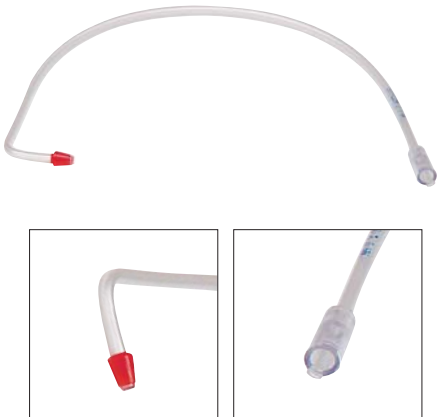


Cone tip, right-angle, Luer lock

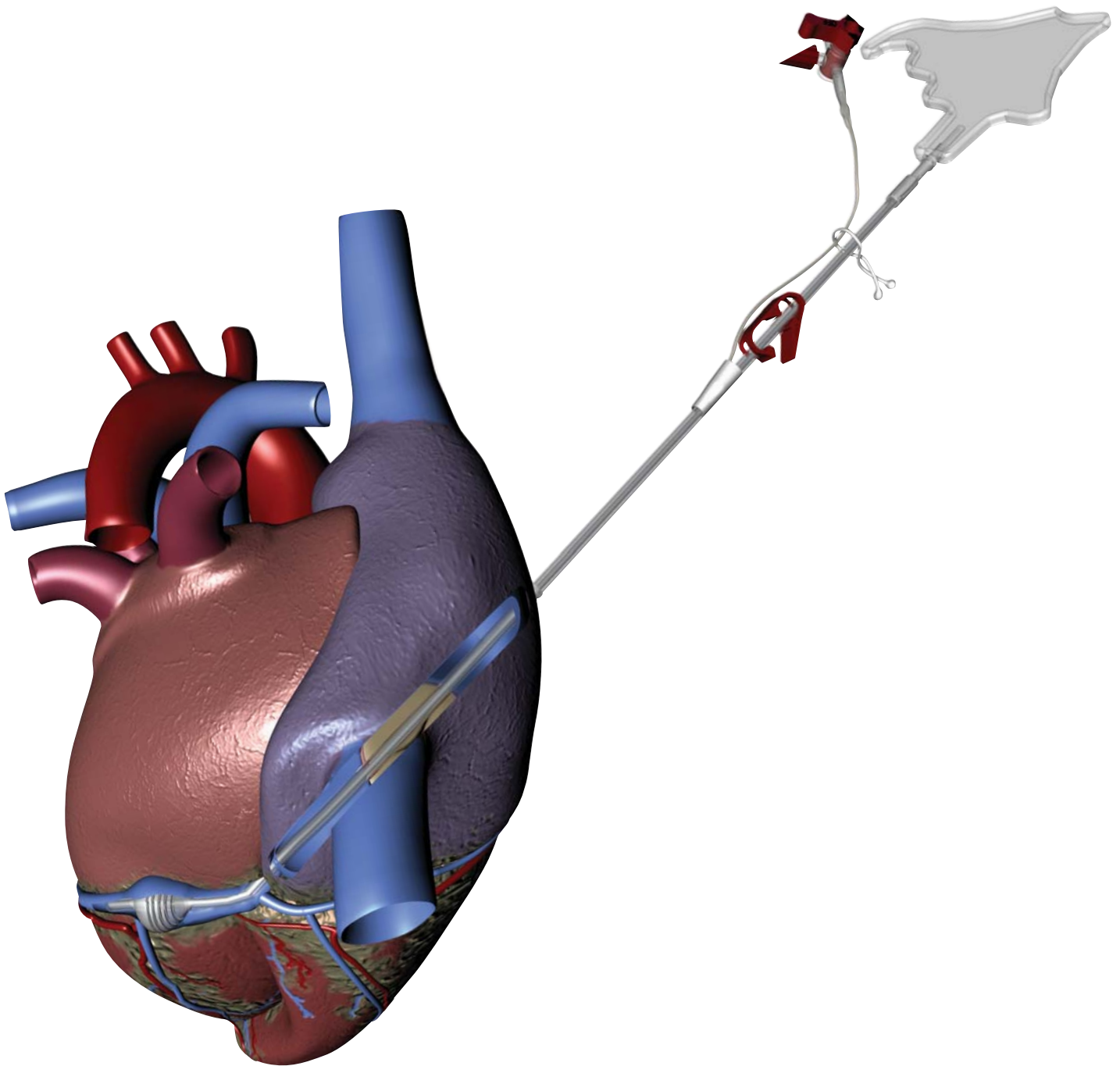
Specifications:

Art.No.	Tip hard/soft	Tube outer Ø	Tube inner Ø	Cone tip outer Ø	Length	Connection
235859	Hard	3.0 mm	2.0 mm	5.0 mm	27 cm	LL-female
235858	Hard	3.5 mm	2.5 mm	5.8 mm	27 cm	LL-female
235857	Hard	4.0 mm	3.0 mm	6.8 mm	27 cm	LL-female
235856	Hard	4.0 mm	3.0 mm	7.5 mm	27 cm	LL-female

Packaging unit: 10 pcs. / carton, sterile packed



RETROGRADE CARDIOPLEGIA CANNULAE



Product features:

- Manual or automatic balloon inflation
- Flexible or stiff stylet
- With or without ergonomic handle
- Various smooth balloon shapes with or without textured surface
- Short and long cannulae
- Malleable cannula body
- Polyurethane cannulae and balloon
- 14 Fr. tip diameter and 18 mm balloon outer diameter

RETROGRADE CARDIOPLEGIA CANNULAE

Retrograde Cardioplegia Cannulae are designed to infuse cardioplegia solution through the coronary sinus and available in self-inflating balloon and a manual inflation balloon versions. Administration of the cardioplegia solution through the primary lumen of the flexible catheter inflates the soft polyurethane (PUR) balloon automatically. The inflated balloon seals and fixes the catheter tip safely in the coronary sinus. Pressure can be monitored at the catheter tip at any time via the secondary lumen. The manual inflation version has a third lumen for filling the balloon manually.

With automatically inflating balloon and flexible stylet

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CR 14 A	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

With automatically inflating balloon and flexible stylet, with handle

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRG 14 A	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female
CRGK 14 A	14 Fr. (4.7 mm)	18 mm	28 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

RETROGRADE CARDIOPLEGIA CANNULAE

With automatically inflating balloon and stiff stylet

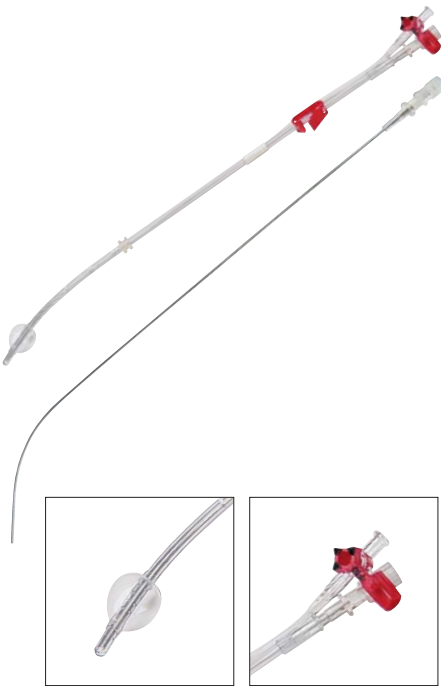
Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRS 14 A	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female
CRSK 14 A	14 Fr. (4.7 mm)	18 mm	28 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



With automatically inflating balloon and stiff stylet, with handle

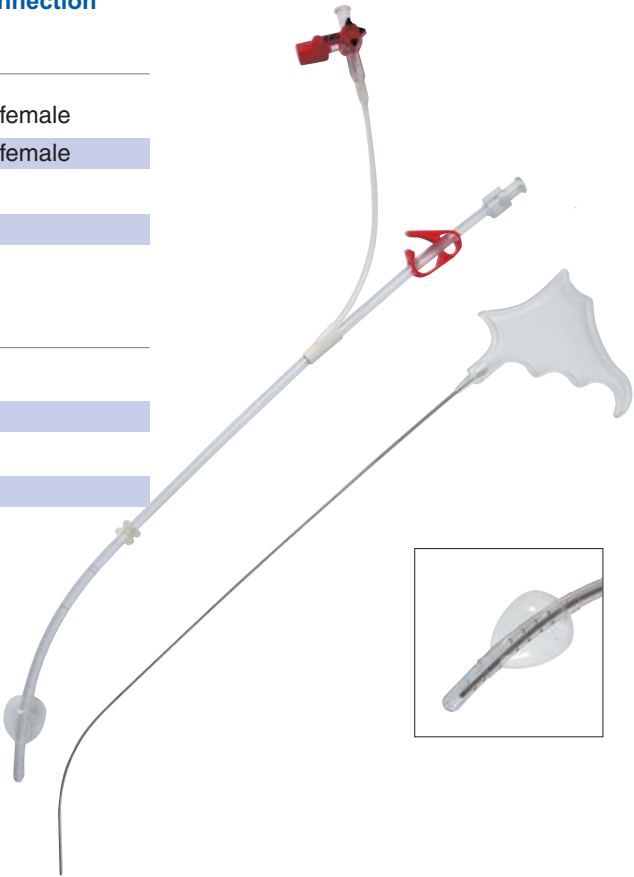
Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRSG 14 A	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female
CRSGK 14 A	14 Fr. (4.7 mm)	18 mm	28 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



RETROGRADE CARDIOPLEGIA CANNULAE

With automatically inflating, ribbed balloon and stiff stylet, with handle

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRSG 14 A 15	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

With automatically inflating, ribbed balloon, malleable cannula body and stiff stylet, with handle

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRSG 14 A 151	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150

RETROGRADE CARDIOPLEGIA CANNULAE

With manually inflating balloon and flexible stylet

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CR 14 M	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



With manually inflating balloon and stiff stylet, with handle

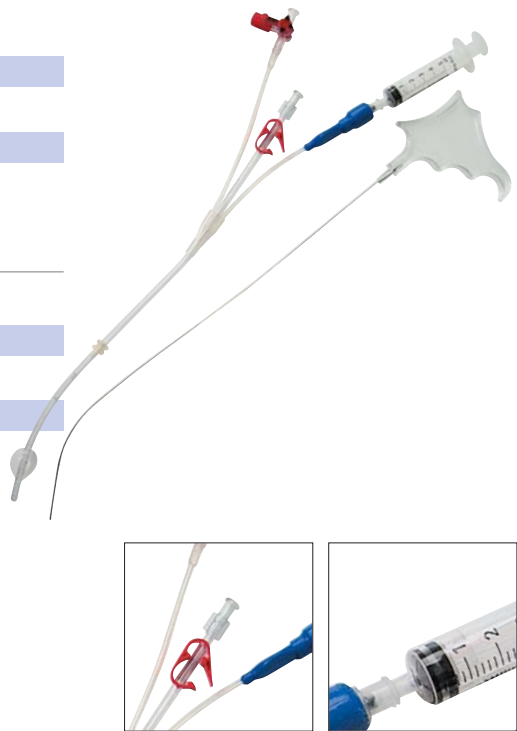
Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRG 14 M	14Fr. (4.7 mm)	18 mm	35 cm	LL-female
CRGK 14 M	14Fr. (4.7 mm)	18 mm	28 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



RETROGRADE CARDIOPLEGIA CANNULAE

With manually inflating balloon and stiff stylet

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRS 14 M	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female
CRSK 14 M	14 Fr. (4.7 mm)	18 mm	28 cm	LL-female

Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



With manually inflating balloon and stiff stylet, with handle

Specifications:

Art.No.	Outer Ø cannula	Outer Ø balloon	Length	Connection
CRSG 14 M	14 Fr. (4.7 mm)	18 mm	35 cm	LL-female
CRSGK 14 M	14 Fr. (4.7 mm)	18 mm	28 cm	LL-female

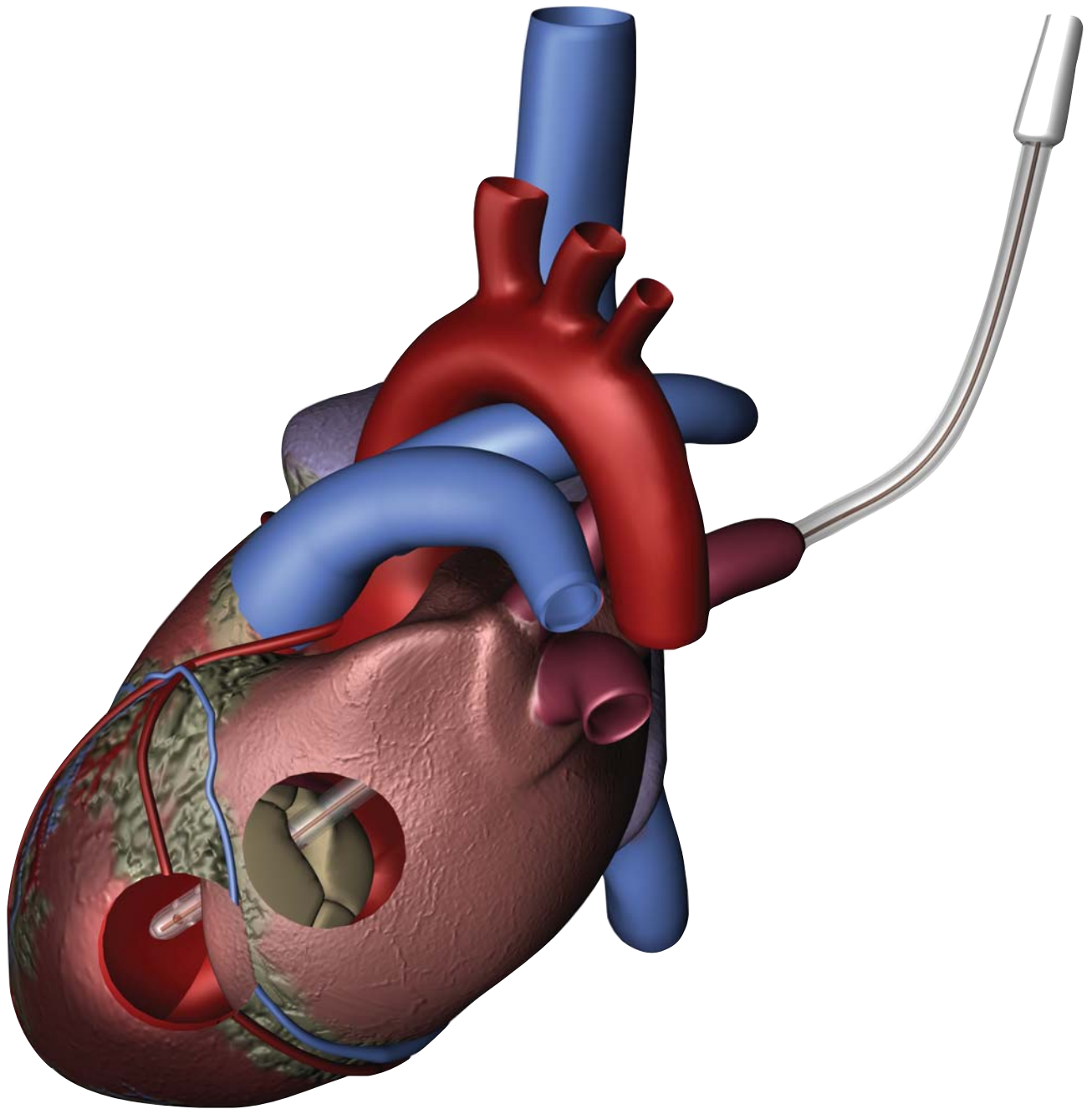
Packaging unit: 5 pcs. / carton, sterile packed

Accessories:

Drip chamber with plastic spike	P-0250
Cardioplegia adapter 4-fold	P-0370
Cardioplegia adapter straight	P-0340
Cardioplegia set with cooling coil	P-0100
Cardioplegia set crystalloid	P-0150



VENT CATHETERS AND SUCTION DEVICES

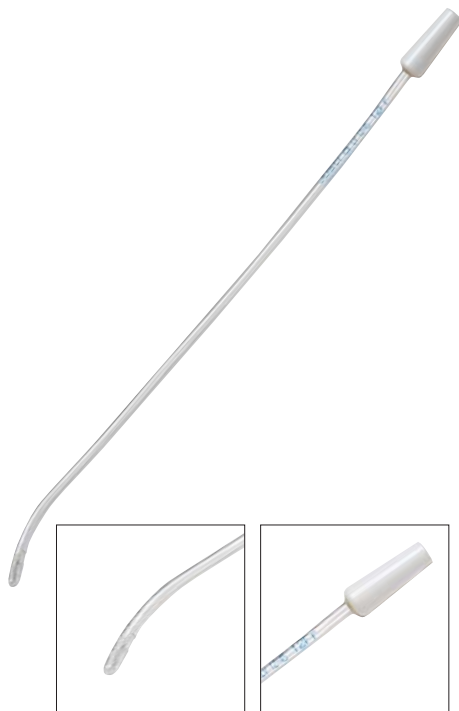


Product features:

- Designed for left heart venting during cardiopulmonary bypass
- Wide variety of sizes from 8 Fr. for neonates up to 20 Fr. for adults
- Multiple perforations with central opening or several side holes for effective drainage
- Pre-bent or straight tips
- Versions with flexible body and integrated stylet available
- Special version with pre-mounted vacuum valve to prevent tissue damage
- 1/4" standard connection
- Sucker with rigid or flexible body
- Mini tip or fluted tip for effective suction
- Ergonomically formed handle for comfortable handling
- Pericardial (sump) sucker with metal tip

VENT CATHETERS

Vent Catheters are used for venting of the left ventricle during cardiopulmonary bypass surgery. By selecting an adequate diameter, perforation length and tip model, an appropriate catheter can be found for any particular application. The catheter tips have a central opening and several drainage openings. Left ventricular vents are inserted via the pulmonary vein, left atrium or cardiac apex.



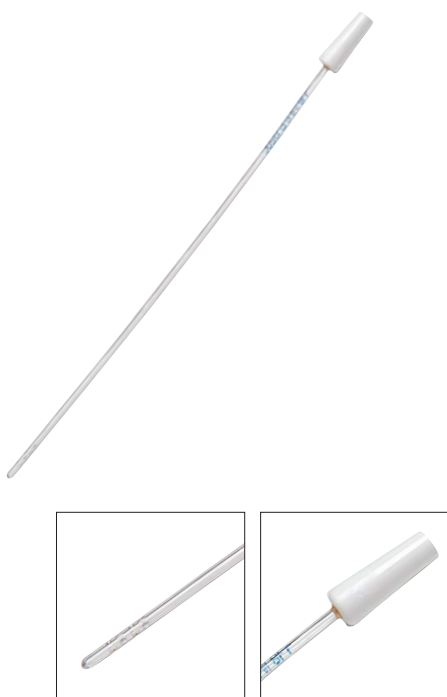
Vent with tip pre-bent at 45° for infants

Round tip allows smooth insertion.

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LV 08	8 Fr. (2.6 mm)	15 mm	23 cm	1/4"
LV 12-45	12 Fr. (4.0 mm)	15 mm	23 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



Vent with central opening for infants

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LV 08-01	8 Fr. (2.6 mm)	12 mm	23 cm	1/4"
LV 10-02	10 Fr. (3.3 mm)	36 mm	30 cm	1/4"
LV 12	12 Fr. (4.0 mm)	28 mm	25 cm	1/4"
LV 14	14 Fr. (4.6 mm)	28 mm	25 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed

VENT CATHETERS

Vent with central opening

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LV 18	18 Fr. (6.0 mm)	50 mm	35 cm	1/4"
LV 20-01	20 Fr. (6.7 mm)	85 mm	40 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



Vent with separate malleable stylet for easy insertion, with central opening

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LVS 08	8 Fr. (2.6 mm)	22 mm	23 cm	1/4"
LVS 12	12 Fr. (4.0 mm)	36 mm	25 cm	1/4"
LVS 14	14 Fr. (4.6 mm)	36 mm	25 cm	1/4"
LVS 18	18 Fr. (6.0 mm)	55 mm	35 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed

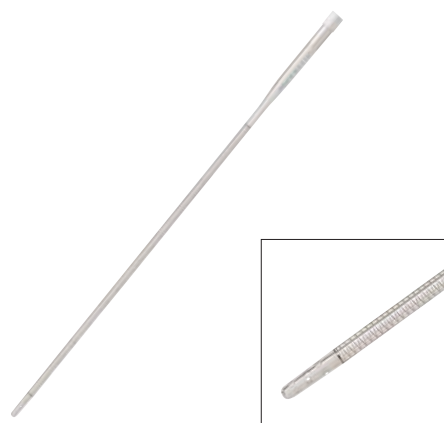


Vent with wire reinforcement and central opening

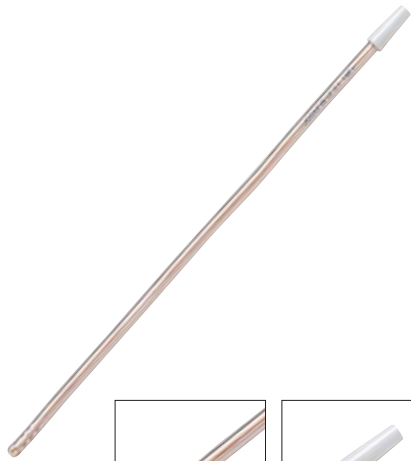
Specifications:

Art.No.	Outer Ø	Perforation	Length	Connection size
HKV 43 LR	16 Fr. (5.3 mm)	18 mm	40 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



VENT CATHETERS



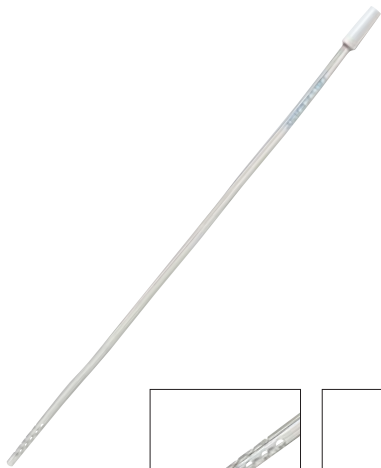
Vent with malleable body, without central opening

Vent catheters with round tips allow smooth and gentle insertion through the pulmonary vein and the mitral valve. Several lateral openings allow optimal drainage.

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LVF 15	15 Fr. (5.0 mm)	28 mm	32 cm	1/4"
LVF 18	18 Fr. (6.0 mm)	30 mm	35 cm	1/4"
LVF 18 LP	18 Fr. (6.0 mm)	55 mm	35 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



Vent with malleable body, without central opening

With rounded tip for simple and gentle application and harder tubing material.

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LVF 18 H	18 Fr. (6.0 mm)	16 mm	30 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



Vent with malleable body, without central opening, with pre-mounted vacuum valve

The vacuum valve prevents the vent from collapsing or sucking on the endocardium.

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
LVF 18 LP-L	18 Fr. (6.0 mm)	55 mm	35 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed

SUCTION DEVICES

Various sucker types are available depending on the anatomical and physiological conditions. They are developed to ensure easy and effective suction. Efficient removal of excessive fluid from the surgical site improves the working conditions. The tips are designed to prevent involuntary sucking to the vessel walls. Rigid suction devices allow handling without direct interference with the surgical site. Flexible suction devices are clamped to the surgical drapes covering the patient.

Rigid sucker

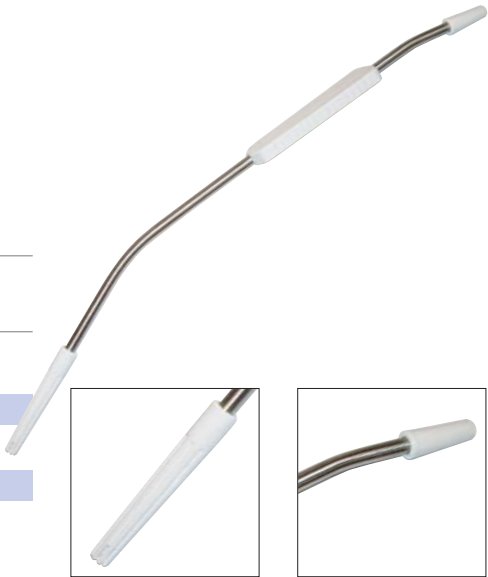
The suction device consists of a special steel tube with a ribbed tip and ergonomically formed handle.

** with restrictor

Specifications:

Art.No.	Tip outer Ø	Steel tube inner Ø	Length	Connector
JS 49 R	21 Fr. (7.0 mm)	4.9 mm	34 cm	1/4"
JS 49 RD**	21 Fr. (7.0 mm)	4.9 mm	34 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



Rigid sucker with mini-tip

The suction device consists of a special steel tube with a soft tip and ergonomically formed handle. An additional opening in the handle facilitates control of suction.

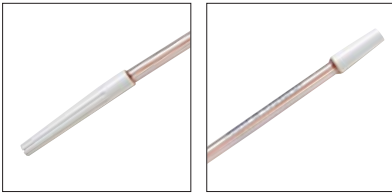
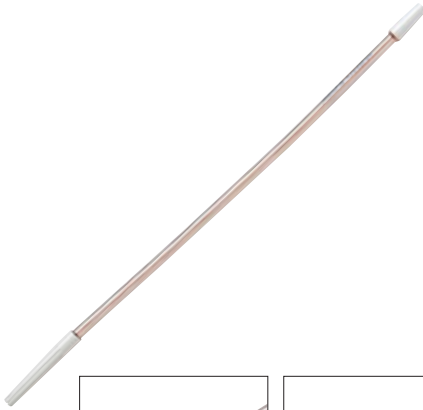
Specifications:

Art.No.	Tip outer Ø	Steel tube inner Ø	Length	Connector
JS 34 S	9 Fr. (3.0 mm)	3.4 mm	27 cm	1/4"

Packaging unit: 10 pcs. / carton, sterile packed



SUCTION DEVICES



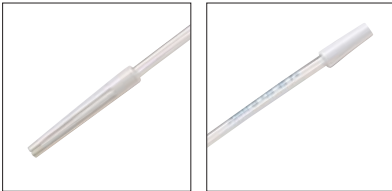
Malleable sucker

The sucker consists of a flexible PVC tube with a steel wire embedded in its wall. It also has a ribbed tip. The wire allows the sucker to be bent into the desired form before insertion.

Specifications:

Art.No.	Tip outer Ø	Tube inner Ø	Length	Connector
JS 45 FW	21 Fr. (7.0 mm)	4.5 mm	35 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



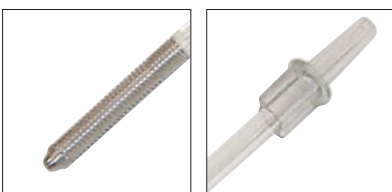
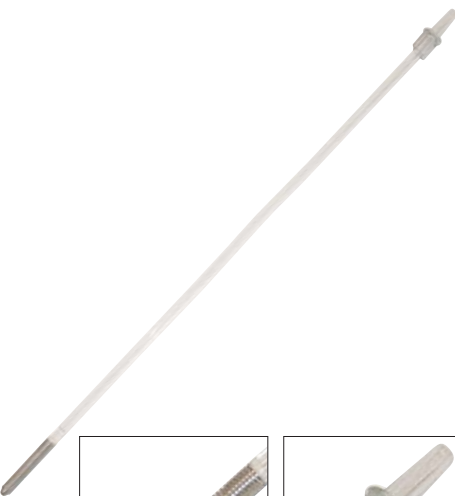
Flexible sucker

The sucker consists of a soft, flexible PVC tube with a ribbed tip.

Specifications:

Art.No.	Tip outer Ø	Tube inner Ø	Length	Connector
JS 45 F	21 Fr. (7.0 mm)	4.5 mm	35 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed



Pericardial sump sucker

This unique sucker consists of a soft, flexible PUR tube. The metal tip is always at the lowest point due to its weight. Therefore this sucker is particularly well-suited as sump sucker.

Specifications:

Art.No.	Tip outer Ø	Tube inner Ø	Length	Connector
JS 39 ST	20 Fr. (6.7 mm)	3.9 mm	35 cm	1/4"

Packaging unit: 10 pcs./ carton, sterile packed

CATHETERS AND CANNULAE
SPECIAL APPLICATION



PRESSURE MONITORING CATHETERS

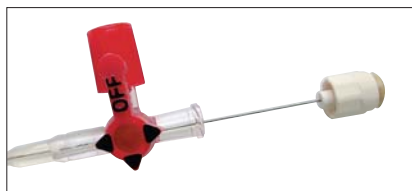
The Pressure Monitoring Catheter set is used for continuous post-operative measurement of the left arterial pressure. Two sizes in various lengths are available. Each catheter is equipped with a fixed 3-way stopcock and insertion stylet. An insertion kit is available as an option. The removable insertion stylet with a steel needle simplifies catheter insertion through the upper right pulmonary vein into the left atrium. The radiopaque catheter allows position control. The optional insertion kit contains a puncture cannula and makes insertion of the cannula using the Seldinger technique through the thoracic wall easier.

Pressure Monitoring Catheter

Specifications:

Art.No.	Outer Ø	Length	Puncture cannulae	Connection
LAP 1230	3.6 Fr. (1.2 mm)	30 cm	-	LL-female
LAP 1251	3.6 Fr. (1.2 mm)	51 cm	-	LL-female
LAP 1270	3.6 Fr. (1.2 mm)	70 cm	-	LL-female
LAP 1751	5.0 Fr. (1.7 mm)	51 cm	-	LL-female

Packaging unit: 15 pcs. / carton, sterile packed



Pressure Monitoring Catheter with insertion kit

The insertion kit consists of a Seldinger puncture needle and a guide cannulae to simplify insertion through the thoracic wall.

Specifications:

Art.No.	Outer Ø	Length	Puncture cannulae	Connection
KLAP 1251	3.6 Fr. (1.2 mm)	51 cm	13 ga	LL-female
KLAP 1751	5.0 Fr. (1.7 mm)	51 cm	13 ga	LL-female

Packaging unit: 15 pcs. / carton, sterile packed



ECMO CANNULAE FOR NEONATES

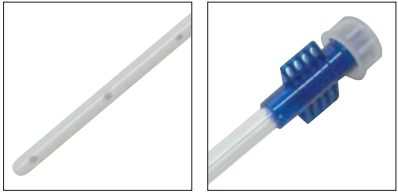
ECMO Cannulae are used for extracorporeal membrane oxygenation (ECMO) in the treatment of respiratory insufficiency of neonates. The design of the cannulae ensures the most gentle blood flow possible. The cannulae are made of radiopaque polyurethane (PUR) to allow position control and biocompatibility during insertion time.

Venous cannulae for veno-arterial ECMO

Specifications:

Art.No.	Outer Ø	Tip length	Perforation	Connection
EKV 1210 M	10 Fr. (3.3 mm)	120 mm	46 mm	dia-screw
EKV 1212 M	12 Fr. (4.0 mm)	120 mm	46 mm	dia-screw
EKV 1214 M	14 Fr. (4.7 mm)	120 mm	46 mm	dia-screw
EKV 1216 M	16 Fr. (5.4 mm)	120 mm	46 mm	dia-screw

Packaging unit: 5 pcs. / carton, sterile packed

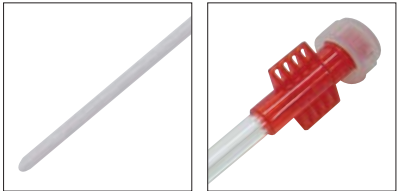


Arterial cannulae for veno-arterial ECMO

Specifications:

Art.No.	Outer Ø	Tip length	Perforation	Connection
EKA 88 M	8 Fr. (2.7 mm)	80 mm	-	dia-screw
EKA 810 M	10 Fr. (3.3 mm)	80 mm	-	dia-screw
EKA 812 M	12 Fr. (4.0 mm)	80 mm	-	dia-screw
EKA 814 M	14 Fr. (4.7 mm)	80 mm	-	dia-screw

Packaging unit: 5 pcs. / carton, sterile packed



ECMO CANNULAE FOR NEONATES

Cannulae for veno-venous ECMO

Double lumen cannulae made of PUR with dia-screw or 1/4" connector.

Each cannula comes with an insertion kit which consists of a guidewire, dilatator and a puncture needle.

Specifications:

Art.No.	Outer Ø	Tip length	Connector
M 1210	12 Fr. (4.0 mm)	100 mm	dia-screw
M 1510	15 Fr. (5.0 mm)	100 mm	dia-screw
M 1210 -88	12 Fr. (4.0 mm)	100 mm	1/4"
M 1510 -88	15 Fr. (5.0 mm)	100 mm	1/4"

Packaging unit: 5 pcs. / carton, sterile packed



THORAX DRAINAGE CATHETERS

Thorax Drainage Catheters are used for pericardial, mediastinal and pleural drainage to remove blood clots following cardiac surgery.

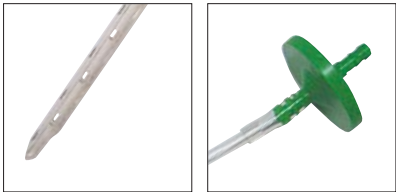
HAT Catheter

The catheter consists of a unique double lumen design for drainage and venting. During post-operative autotransfusion a cardiectomy reservoir is used to create vacuum suction in the catheter. If a catheter is clogged, it can easily and effectively be cleared by opening the clamp on the ventilation lumen. Blood clots no longer have to be manually removed for the benefit of both the patient and the nursing personnel.

Specifications:

Art.No.	Outer Ø	Perforation	Length	Connector
HAT 6 N	28 Fr. (9.3 mm)	16 cm	50 cm	3/8" LL

Packaging unit: 50 pcs. / carton, sterile packed



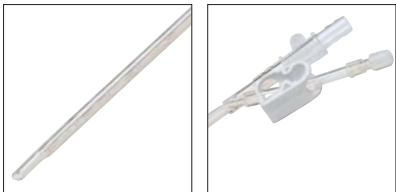
Thorax Rinse Catheter

This catheter is used in cases of complications during thoracic drainage. It is designed to thoroughly rinse the concerned area.

Specifications

Art.No.	Outer Ø	Perforation	Length	Connector
TSK 3220-91 B	20 Fr. (6.7 mm)	-	32 cm	3/8" LL

Packaging unit: 20 pcs. / carton, sterile packed



THORAX DRAINAGE CATHETER



Thorax Drainage Catheter

Specifications:

Art.No.	Outer-Ø	Perforation	Length	Connection size
HT 8	36 Fr. (12.0 mm)	9.8 cm	50 cm	3/8"
HT 8-SL	36 Fr. (12.0 mm)	19.8 cm	80 cm	3/8"
HT 7-SL	32 Fr. (10.7 mm)	19.8 cm	80 cm	3/8"
HT 6	28 Fr. (9.3 mm)	9.8 cm	50 cm	1/4"
HT 5	24 Fr. (8.0 mm)	9.8 cm	50 cm	1/4"

Packaging unit: 20 pcs. / carton, sterile packed

Vessel Cannula

For quick and safe integrity testing of blood vessels. The transparent and soft tip allows easy insertion.



Specifications:

Art.No.	Outer Ø	Tip	Length	Connection
GK 03	9 Fr. (3.0 mm)	straight	49 mm	LL-male
GK 03 S	9 Fr. (3.0 mm)	bevel	49 mm	LL-male

Packaging unit: 20 pcs. / carton, sterile packed

CARDIO KIT

Customized Catheter Kit

MAQUET offers a wide range of customized catheter sets to meet individual clinical and surgical needs.

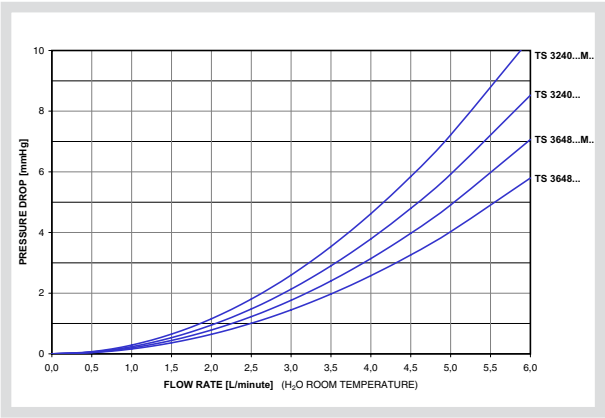
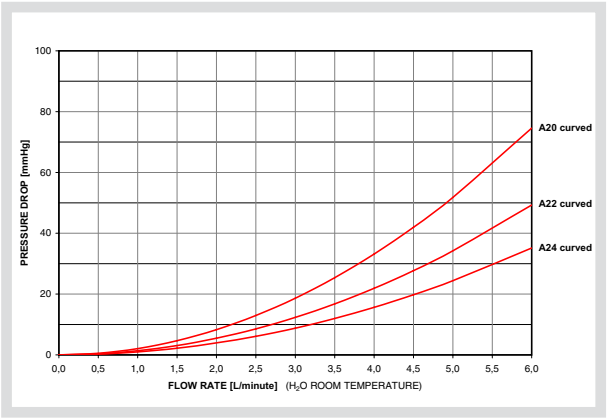
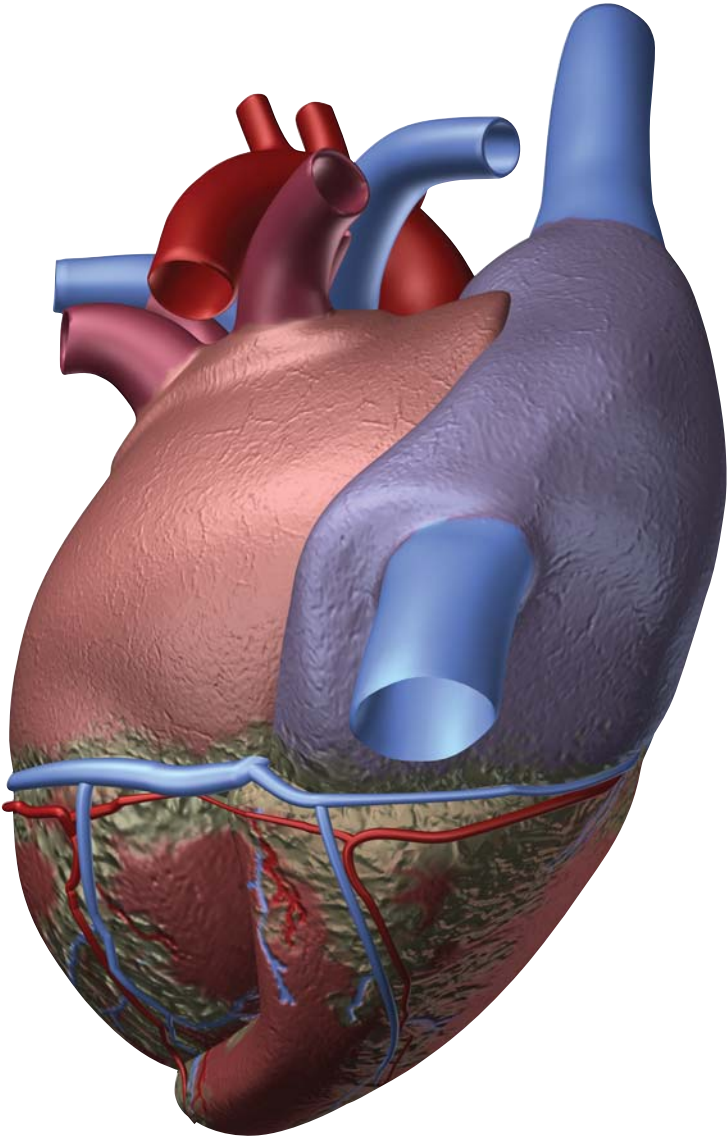
Benefits are:

- Easy handling and time saving as all individually used catheters come in one package and are immediately available in the operation room.
 - Easy ordering process and stock keeping using only one article number.
 - Better economy due to less packaging material.
-



Cardio Kit

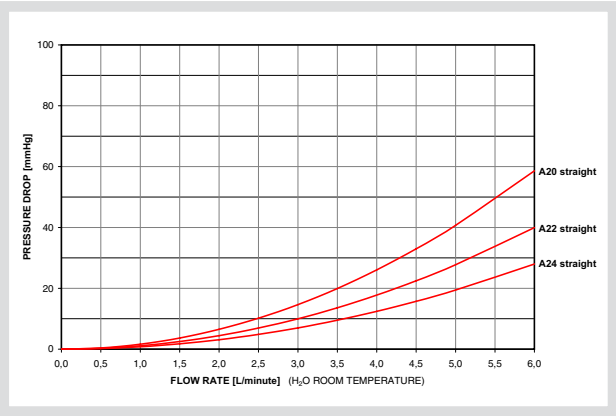
FLOW CHARTS



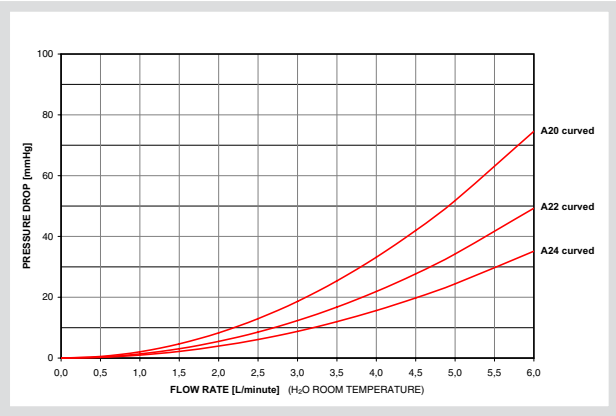
FLOW CHARTS

ARTERIAL CANNULAE

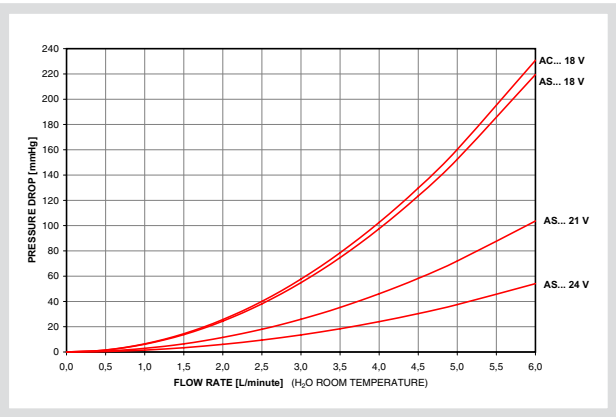
Arterial Cannulae Transminar Straight Tip



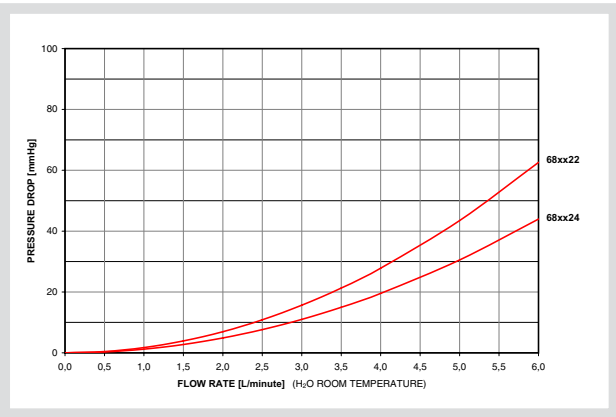
Arterial Cannulae Transminar Curved Tip



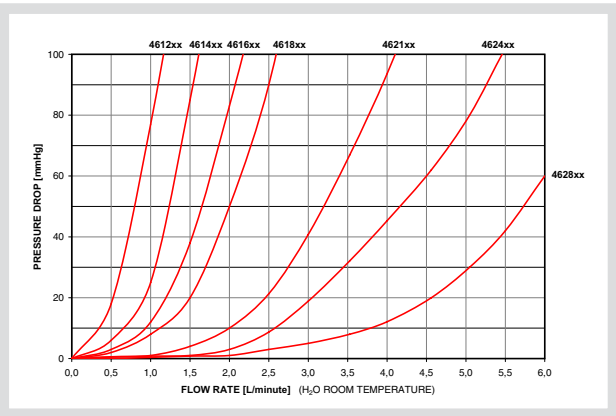
Arterial Cannulae, Straight Tip



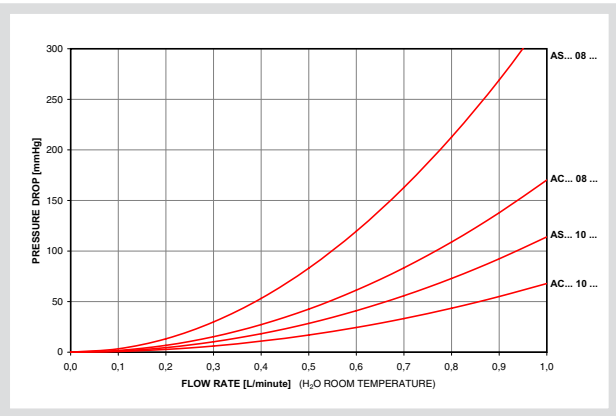
Arterial Cannulae, Curved Tip



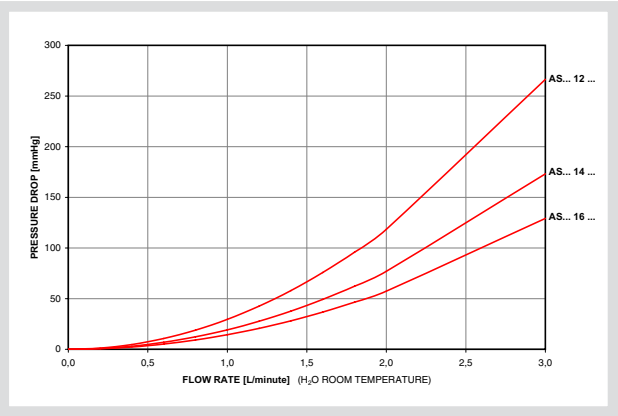
Arterial Cannulae non-reinforced, Straight Tip



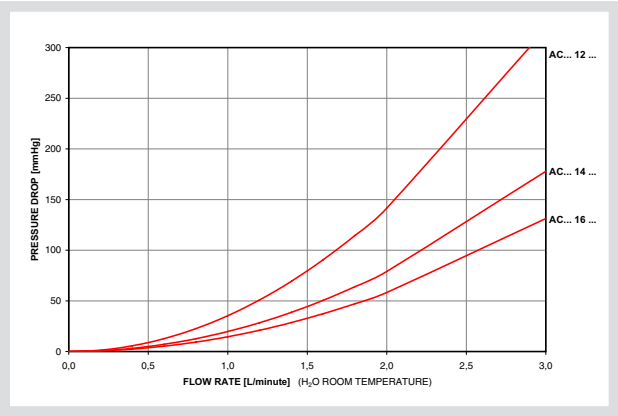
Arterial Cannulae Pediatric, Straight Tip



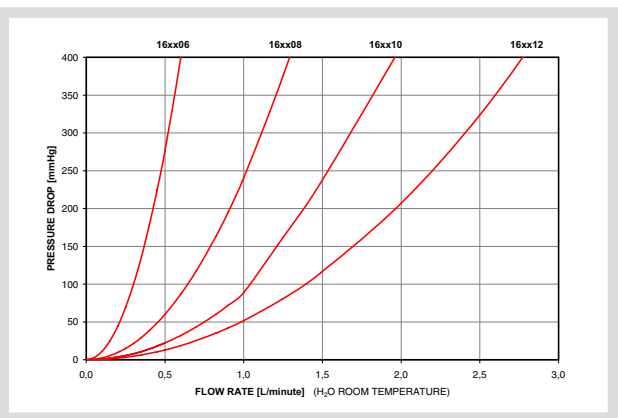
Arterial Cannulae Pediatric, Straight Tip



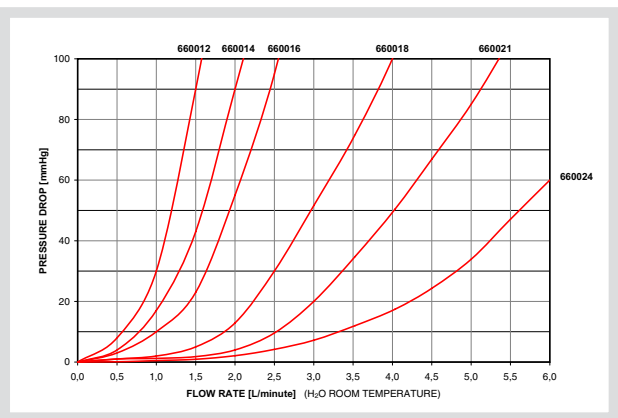
Arterial Cannulae Pediatric, Curved Tip



Arterial Cannulae Pediatric, Straight Tip



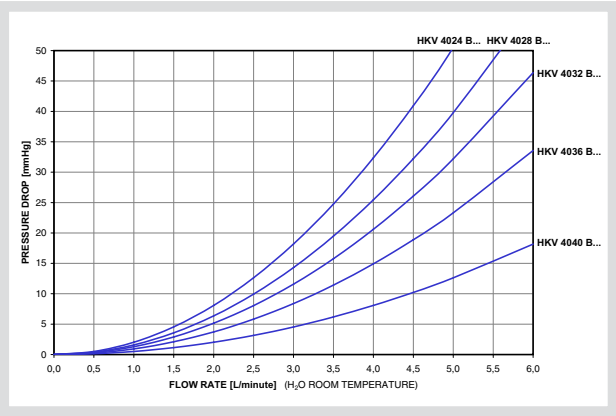
Arterial Cannulae Pediatric, Straight Tip



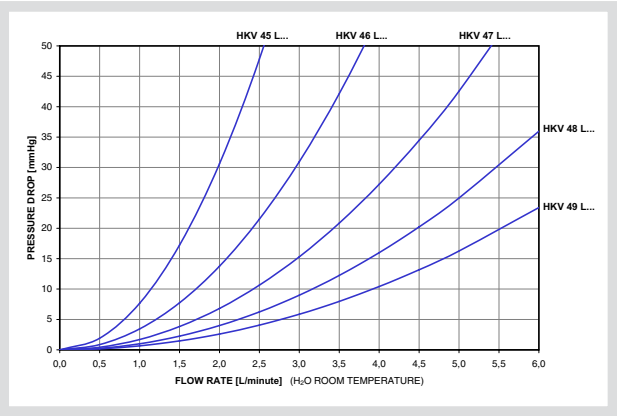
FLOW CHARTS

VENOUS RETURN CATHETERS

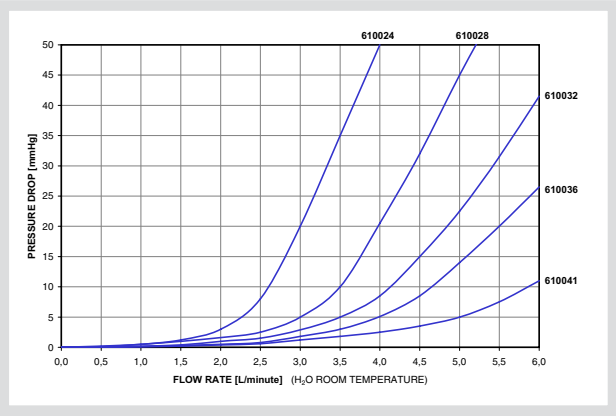
Single-Stage Adult, Bullet Tip



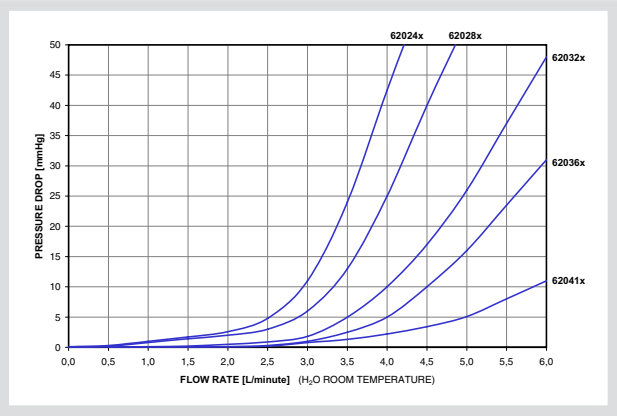
Single-Stage Adult, Lighthouse Tip



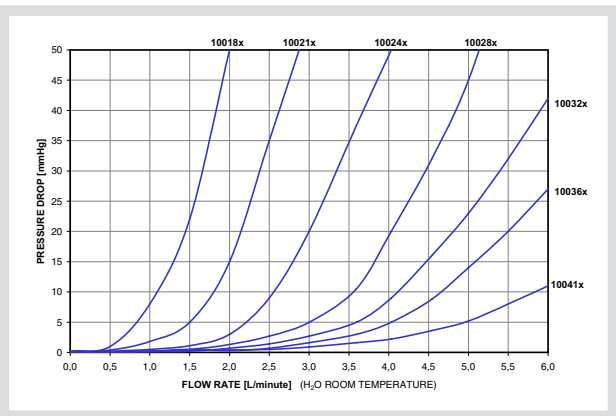
Single-Stage Full Lumen Tip Straight



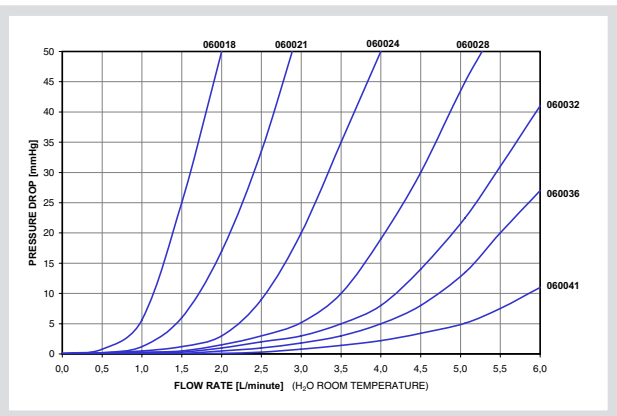
Single-Stage Full Lumen Tip Curved



Single-Stage non-reinforced, Standard Tip Curved



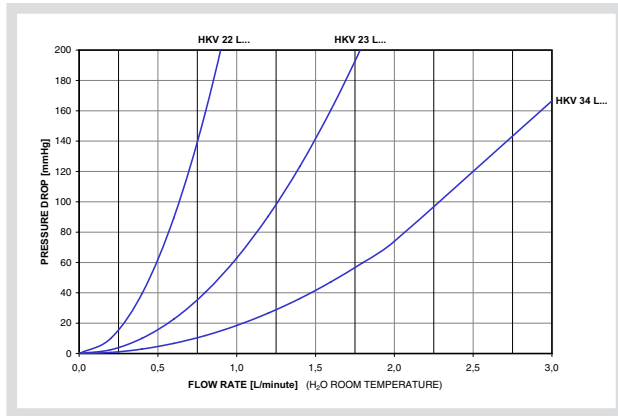
Single-Stage non-reinforced, Standard Tip Straight



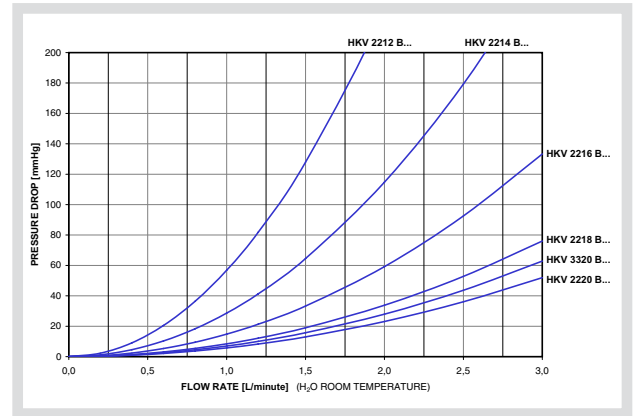
FLOW CHARTS

VENOUS RETURN CATHETERS

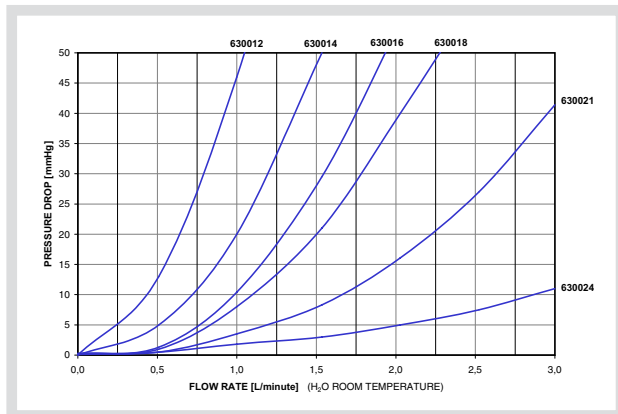
Single-Stage Pediatric, Lighthouse Tip



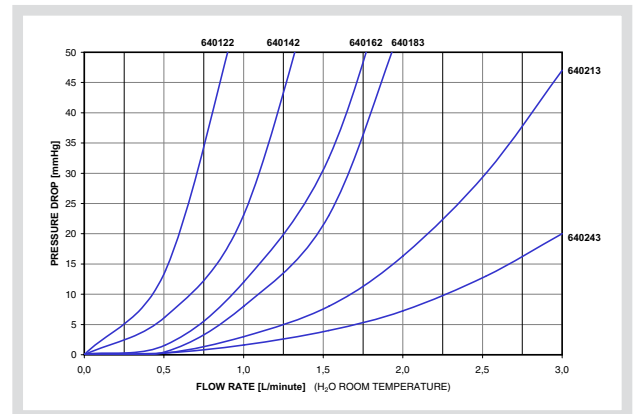
Single-Stage Pediatric, Bullet Tip



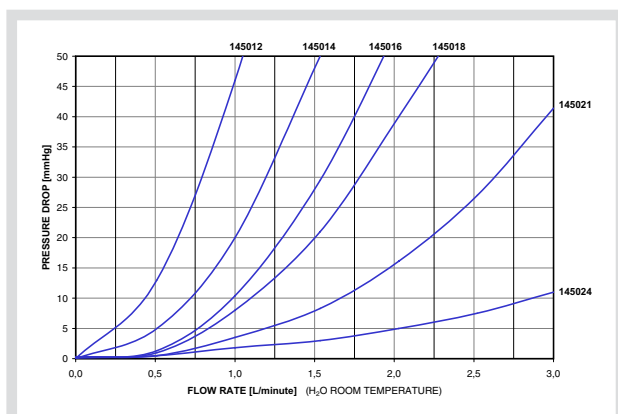
Pediatric Single-Stage reinforced Full Lumen Tip Straight



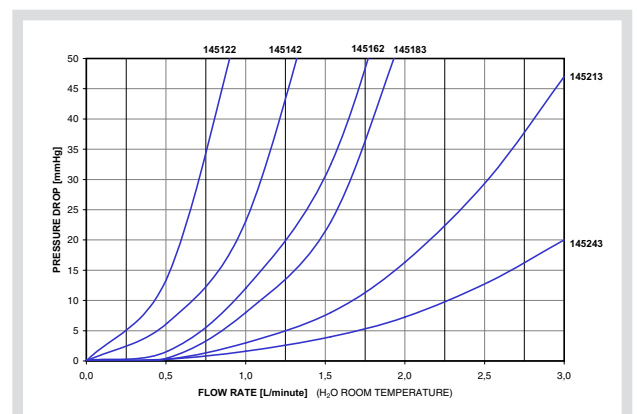
Pediatric Single-Stage reinforced Full Lumen Tip Curved



Pediatric Single-Stage non-reinforced Full Lumen Tip Straight



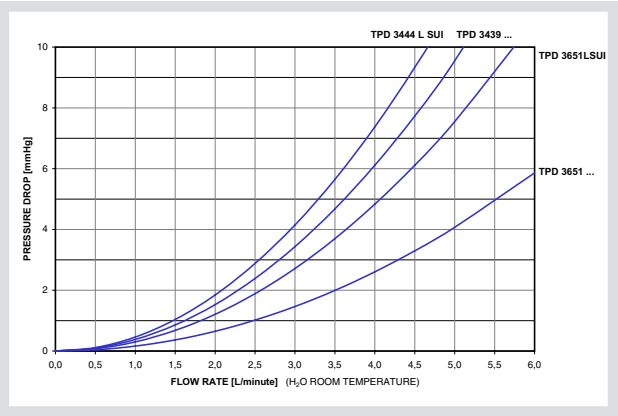
Pediatric Single-Stage non-reinforced Full Lumen Tip Curved



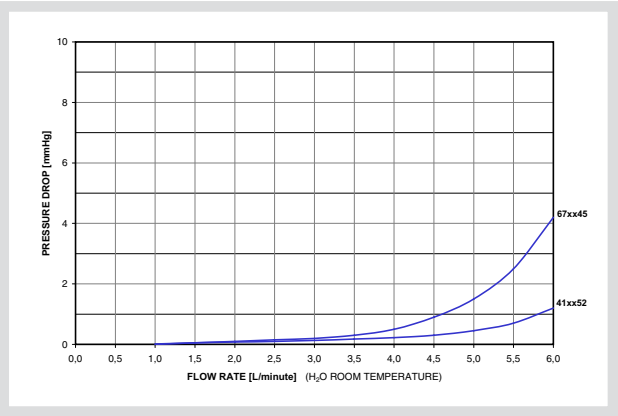
FLOW CHARTS

VENOUS RETURN CATHETERS

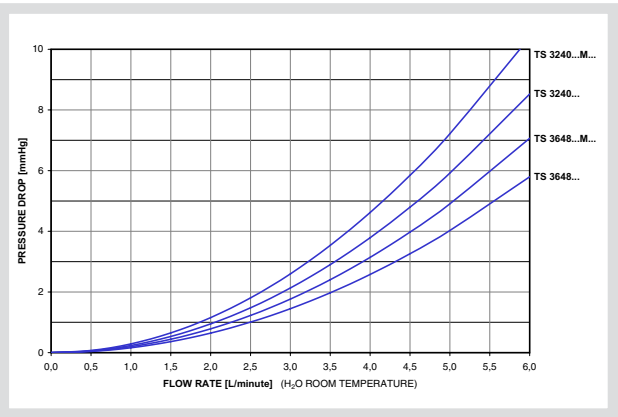
Two-Stage Catheters



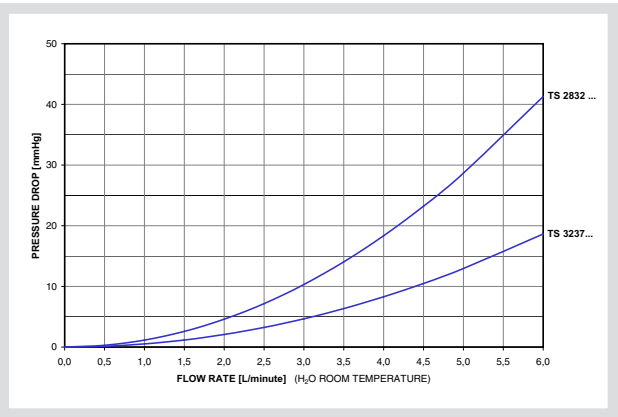
Two-Stage Catheters



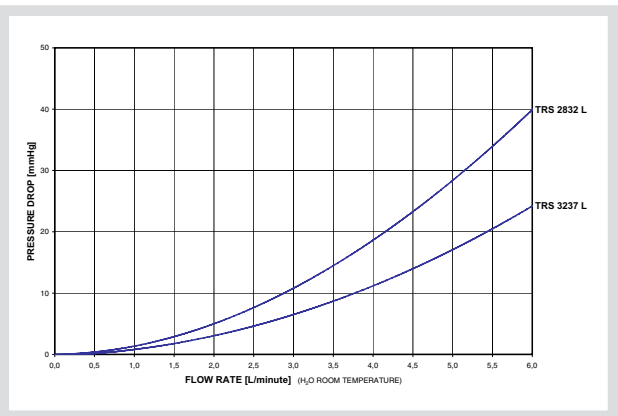
Two-Stage Catheters SLIM and ELLIPTIC



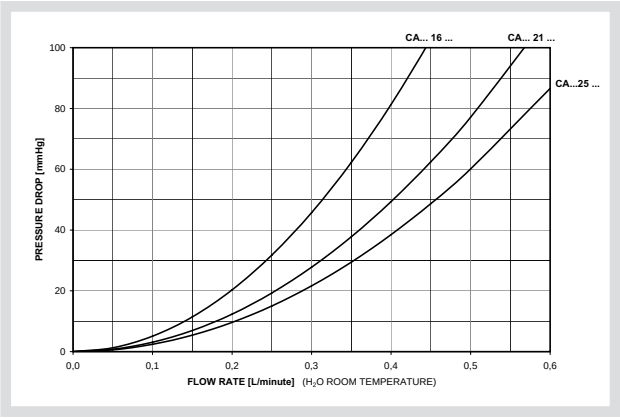
Two-Stage Catheters SLIM



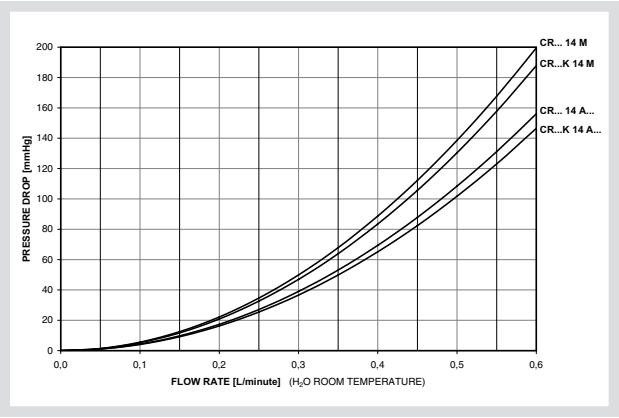
Three-Stages Catheters



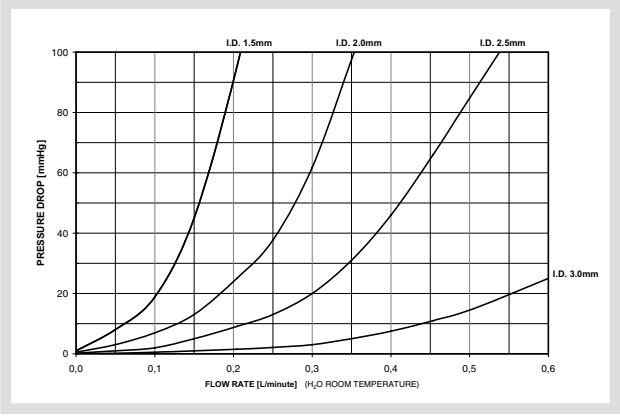
Antegrade Cardioplegia Cannulae



Retrograde Cardioplegia Cannulae



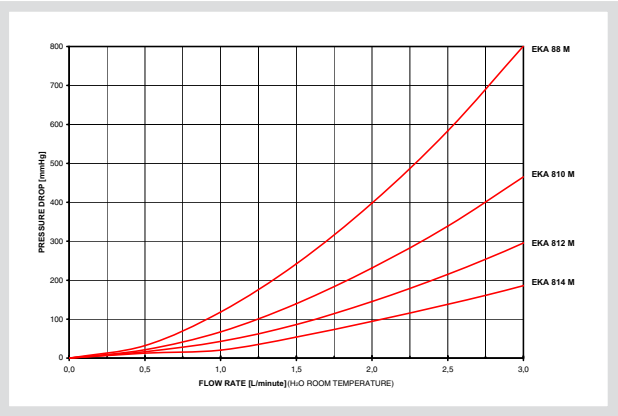
Coronary Perfusion Cannulae



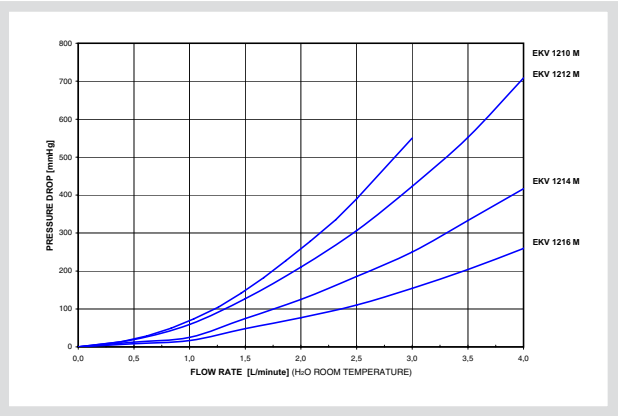
FLOW CHARTS

ECMO CANNULAE

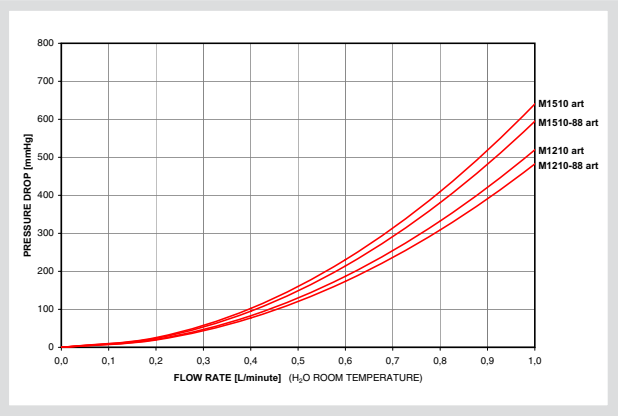
ECMO EKA Arterial Cannulae



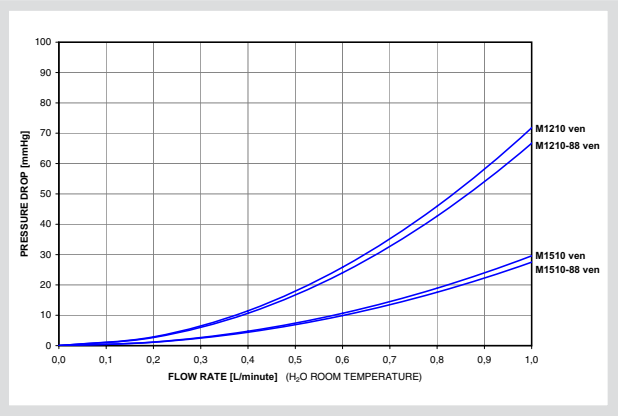
ECMO EKV Venous Cannulae



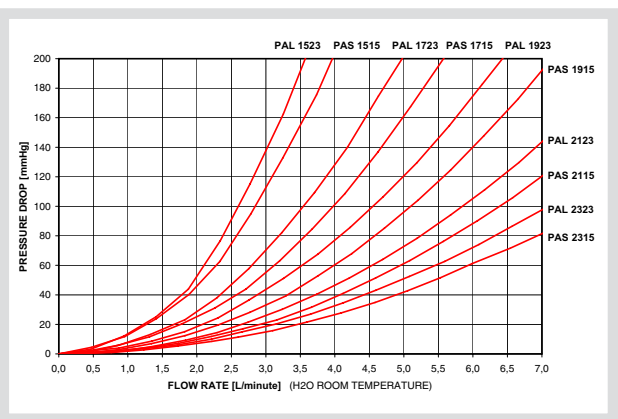
ECMO M 1210 and M 1510 Cannulae Arterial Lumen



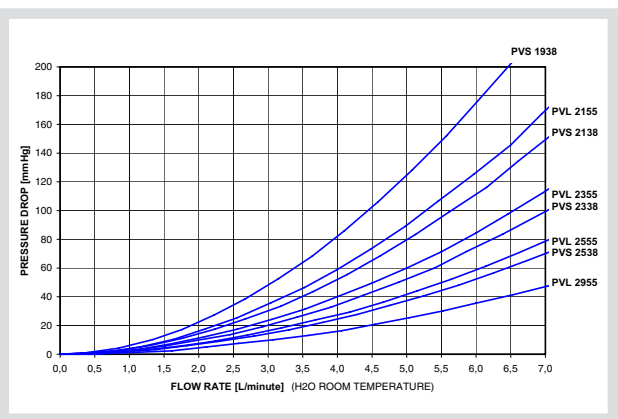
ECMO M 1210 and M 1510 Cannulae Venous Lumen



HLS Arterial Cannulae



HLS Venous Cannulae



Art.No.	Page	Art.No.	Page	Art.No.	Page	Art.No.	Page
060018	24	163608	18	230859	61	640122	29
060021	24	163610	18	235851	60	640142	29
060024	24	163612	18	235852	60	640162	29
060028	24	210800	58	235853	60	640183	29
060032	24	210801	58	235854	60	640213	29
060036	24	210802	58	235856	61	640243	29
060041	24	210803	58	235857	61	660012	17
100183	23	210804	59	235858	61	660014	17
100184	23	210805	59	235859	61	660016	17
100185	23	210806	59	411052	36	660018	17
100213	23	210807	59	411152	36	660021	17
100214	23	210810	58	412052	36	660024	17
100215	23	210811	58	412152	36	670045	36
100244	23	210812	58	461200	15	670145	36
100245	23	210813	58	461212	15	670545	36
100246	23	210814	59	461400	15	671545	36
100285	23	210815	59	461414	15	672045	36
100286	23	210816	59	461600	15	672145	36
100287	23	210817	59	461616	15	675045	36
100326	23	215800	58	461800	15	675145	36
100327	23	215801	58	461818	15	682122	11
100328	23	215802	58	462100	15	682124	11
100365	23	215803	58	462121	15	A20-0101	6
100367	23	215804	59	462400	15	A20-0105	6
100368	23	215805	59	462424	15	A20-0106	7
100369	23	215806	59	610024	22	A20-0107	7
100417	23	215807	59	610028	22	A20-2101	7
100418	23	215810	58	610032	22	A20-2105	8
100419	23	215811	58	610036	22	A20-2106	8
145012	28	215812	58	610041	22	A20-2107	8
145014	28	215813	58	620245	22	A20-5105	9
145016	28	215814	59	620246	22	A20-5106	9
145018	28	215815	59	620286	22	A20-5107	9
145021	28	215816	59	620287	22	A20-7101	10
145024	28	215817	59	620326	22	A20-7105	10
145122	28	220797	58	620327	22	A20-7106	11
145142	28	220897	59	620368	22	A20-7107	10
145162	28	225797	58	620369	22	A22-0101	6
145183	28	225897	59	620418	22	A22-0105	6
145213	28	230851	60	620419	22	A22-0106	7
145243	28	230852	60	630012	29	A22-0107	7
161406	18	230853	60	630014	29	A22-2101	7
161408	18	230854	60	630016	29	A22-2105	8
161410	18	230856	61	630018	29	A22-2106	8
161412	18	230857	61	630021	29	A22-2107	8
163606	18	230858	61	630024	29	A22-5105	9

INDEX BY ARTICLE NO.

Art.No.	Page	Art.No.	Page	Art.No.	Page	Art.No.	Page
A22-5106	9	CA 16 VP	53	EKA 814 M	77	HKV 34 P	26
A22-5107	9	CA 16 VP-V	54	EKA 88 M	77	HKV 34 P 90	27
A22-7101	10	CA 16 V-V	54	EKV 1210 M	77	HKV 4024 B	20
A22-7105	10	CA 21	52	EKV 1212 M	77	HKV 4024 B 90	21
A22-7106	11	CA 21 V	53	EKV 1214 M	77	HKV 4028 B	20
A22-7107	10	CA 21 VP	53	EKV 1216 M	77	HKV 4028 B 90	21
A24-0101	6	CA 21 VP-V	54	GK 03	80	HKV 4032 B	20
A24-0105	6	CA 21 V-V	54	GK 03 S	80	HKV 4032 B 90	21
A24-0106	7	CA 25	52	HAT 6 N	79	HKV 4034 B	20
A24-0107	7	CA 25 V	53	HK 34 SN	14	HKV 4034 B 90	21
A24-2101	7	CA 16 V-V	54	HK 35 SN	14	HKV 4036 B	20
A24-2105	8	CAS 16	50	HK 36 PB-91 V	14	HKV 4036 B 90	21
A24-2106	8	CAS 16 V	50	HK 36 SN	14	HKV 4040 B	20
A24-2107	8	CAS 16 V-V	51	HK 36 SN 1103	14	HKV 4040 B 90	21
A24-5105	9	CAS 21	50	HK 36 SS 90 V	13	HKV 43 LR	71
A24-5106	9	CAS 21 V	50	HK 37 SN	14	HKV 45 L	20
A24-5107	9	CAS 21 V-V	51	HK 45 SE	13	HKV 45 L 90	21
A24-7101	10	CAS 25	50	HK 45 SH 91 V	14	HKV 46 L	20
A24-7105	10	CAS 25 V	50	HK 46 S M 91 V	14	HKV 46 L 90	21
A24-7106	11	CAS 25 V-V	51	HK 46 SE	13	HKV 47 L	20
A24-7107	10	CR 14 A	64	HK 46 SH 91 V	14	HKV 47 L 90	21
ACR 0890 V	16	CR 14 M	67	HK 47 SE-84 V	13	HKV 48 L	20
ACR 1090 V	16	CRG 14 A	64	HK 47 SF	13	HKV 48 L 90	21
ACR 1290 V	16	CRG 14 M	67	HK 47 SH-85 V	14	HKV 49 L	20
ACR 1490 V	16	CRGK 14 A	64	HKV 22 L	25	HKV 49 L 90	21
ACR 1690 V	16	CRGK 14 M	67	HKV 22 L 90	27	HT 5	80
ACR 1890 V	16	CRS 14 A	64	HKV 22 P	26	HT 6	80
AS 08 V	16	CRS 14 M	68	HKV 22 P 90	27	HT 7-SL	80
AS 10 V	16	CRSG 14 A	65	HKV 2212 B	25	HT 8	80
AS 12 V	16	CRSG 14 A 15	66	HKV 2212 B 90	26	HT 8-SL	80
AS 14 V	16	CRSG 14 A 151	66	HKV 2214 B	25	JS 34 S	73
AS 16 V	16	CRSG 14 M	68	HKV 2214 B 90	26	JS 39 ST	74
AS 18 V	12	CRSGK 14 A	65	HKV 2216 B	25	JS 45 F	74
AS 18 V-85 B	12	CRSGK 14 M	68	HKV2216 B 90	26	JS 45 FW	74
AS 21 V	12	CRSK 14 A	65	HKV 2218 B	25	JS 49 R	73
AS 21 V-85 B	12	CRSK 14 M	68	HKV 2218 B 90	26	JS 49 RD	73
AS 24 V	12	CS 01	55	HKV 2220 B	25	KLAP 1251	76
AS 24 V-85 B	12	CS 02	55	HKV 2220 B 90	26	KLAP 1751	76
ASR 08 V	16	CS 03	55	HKV 23 L	25	LAP 1230	76
ASR 10 V	16	CS 04	55	HKV 23 L 90	27	LAP 1251	76
ASR 12 V	16	CS 06	55	HKV 23 P	26	LAP 1270	76
ASR 14 V	16	CS 07	55	HKV 23 P 90	27	LAP 1751	76
ASR 16 V	16	CS 08	55	HKV 3320 B	25	LV 08	70
ASR 18 V	16	CS 09	55	HKV 3320 B 90	26	LV 08-01	70
CA 16	52	EKA 810 M	77	HKV 34 L	25	LV 10-02	70
CA 16 V	53	EKA 812 M	77	HKV 34 L 90	27	LV 12	70

Art.No.	Page	Art.No.	Page	Art.No.	Page	Art.No.	Page
LV 12-45	70	BE-PVS 2138	47	TS 3240 L-86	40		
LV 14	70	BE-PVS 2338	47	TS 3240 L-86 M	42		
LV18	71	BE-PVS 2538	47	TS 3240 L-87 M	42		
LV 20-01	71	BE-PVL 2155	47	TS 3240 L	39		
LVF 15	72	BE-PVL 2355	47	TS 3240 L M	41		
LVF 18	72	BE-PVL 1723	47	TS 3648 B-86	38		
LVF 18 H	72	BE-PVL 1923	47	TS 3648 B-87	38		
LVF 18 LP	72	PIK 100	48	TS 3648 B	37		
LVF 18 LP-L	72	PIK 150	48	TS 3648 B M	41		
LVS 08	71	T 3439 B	32	TS 3648 L-86 M	42		
LVS 12	71	T 3651 B	32	TS 3648 L-86	40		
LVS 14	71	TP 3439 B	33	TS 3648 L-87 M	42		
LVS 18	71	TP 3439 B-86	33	TS 3648 L	39		
M 1210	78	TP 3651 B	33	TS 3648 L M	41		
M 1210-88	78	TP 3651 B-86	33	TSK 3220-91 B	79		
M 1510	78	TPD 3439 B	34				
M 1510-88	78	TPD 3439 B-86	34				
PAS 1515	46	TPD 3439 B S1	34				
PAS 1715	46	TPD 3439 B-86 S1	34				
PAS 1915	46	TPD 3439 B-87	34				
PAS 2115	46	TPD 3439 B-87 S1	34				
PAS 2315	46	TPD 3444 L-SUI	35				
PAL 1523	46	TPD 3651 B	34				
PAL 1723	46	TPD 3651 B-86	34				
PAL 1923	46	TPD 3651 B-86-KS	34				
PAL 2123	46	TPD 3651 B-87	34				
PAL 2323	46	TPD 3651 B 90	35				
BE-PAS 1515	46	TPD 3651 B-KS	34				
BE-PAS 1715	46	TPD 3651 B S1	34				
BE-PAS 1915	46	TPD 3651 L	35				
BE-PAS 2115	46	TPD 3651 L-SUI	35				
BE-PAS 2315	46	TRS 2832 L	43				
BE-PAL 1523	46	TRS 3237 L	43				
BE-PAL 1723	46	TS 2832 B	37				
BE-PAL 1923	46	TS 2832 B-84	38				
BE-PAL 2123	46	TS 2832 L	39				
BE-PAL 2323	46	TS 2832 L-84	40				
PVS 1938	47	TS 3237 B	37				
PVS 2138	47	TS 3237 B-84	38				
PVS 2338	47	TS 3237 L	39				
PVS 2538	47	TS 3237 L-84	40				
PVL 2155	47	TS 3240 B-86	38				
PVL 2355	47	TS 3240 B-87	38				
PVL 2555	47	TS 3240 B	37				
PVL 2955	47	TS 3240 B M	41				
BE-PVS 1938	47	TS 3240 L 120	40				

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