

MAQUET

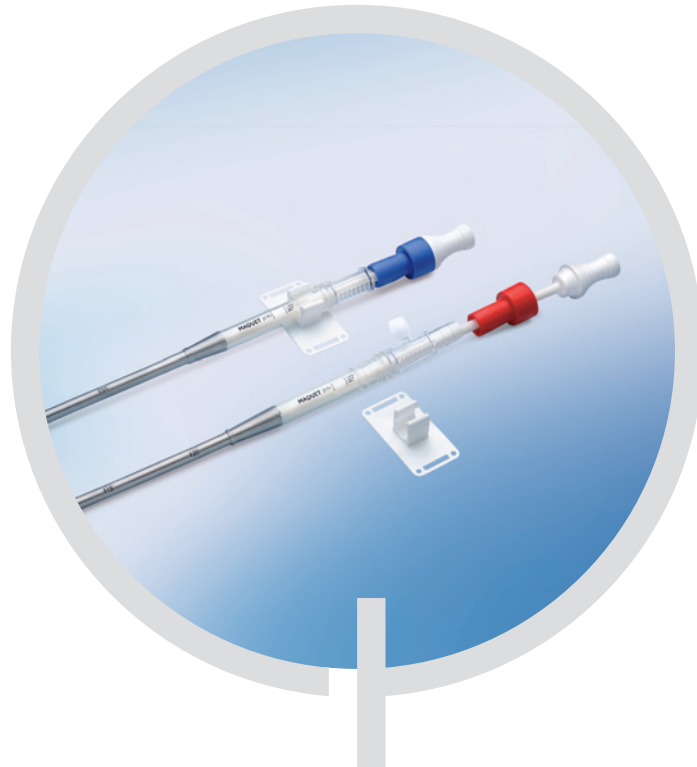
HLS CANNULAE SOLUTIONS FROM TIP TO TIP

CARDIOVASCULAR





HLS CANNULAE SETS
VESSEL ACCESS BECOMES EASIER
MAQUET – THE GOLD STANDARD



MAQUET is an international synonym for innovative and technological advances in operating rooms and intensive care units. MAQUET offers state-of-the-art quality products and services for the optimal treatment of patients and the best working conditions. MAQUET Cardiovascular has extensive experience in open and beating heart surgery, showing its commitment with continuous innovations. The product portfolio includes the entire range of perfusion systems, catheters and cannulae as well as extracorporeal life support systems.

The new HLS CANNULAE are designed for implantation during cardiac surgery, but MAQUET now also offers a complete solution for extended extracorporeal life support systems from tip to tip. The wide HLS CANNULAE range offers vessel access for the veno-venous, arterio-venous and veno-arterial cannulation. They provide easy and safe connection of peripheral vessels to an extracorporeal circuit.

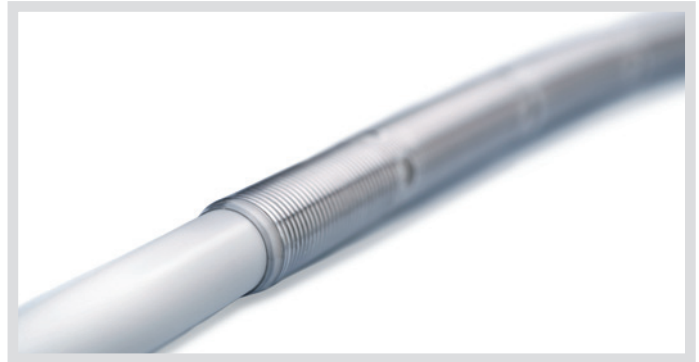
BIOLINE coated cannulae are available for applications in extended respiratory and/or circulatory support. They can be used in combination with MAQUET's PLS or HLS Systems for (up to) 30 days, but also for short-term applications in standard cardiac surgery.

MAQUET – The Gold Standard.

RELIABLE AND SAFE SMOOTH TRANSITIONS AND KINK RESISTANT CANNULA BODY

MAQUET's new HLS CANNULAE can be inserted percutaneously or with a surgical cut-down. Arterial and venous cannulae are available in a choice of sizes and insertion lengths to meet all needs for peripheral cannulation.

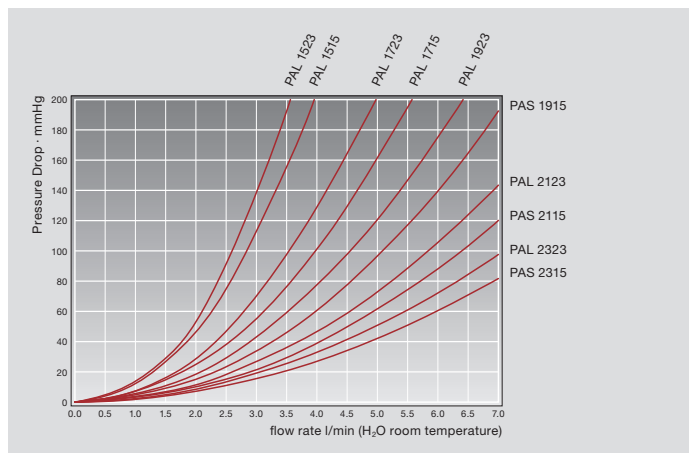
- Cannula bodies are made of biocompatible polyurethane
- Reinforced with a flat wire for lowest wall thickness and high flow rates
- Large range of sizes to match different patient requirements
- Sizes from 15 Fr. to 29 Fr.
- Different insertion lengths are available, starting with 15, 23, 38 and ending with 55 cm
- Locked introducer to keep introducer in place during insertion
- Optimized transition between introducer and cannula tip
- Unique depth marks to control the insertion depth
- Depth gauge in addition to define maximum insertion depth
- A pair of side holes on every arterial tip
- Selective hardened proximal cannula body to prevent kinking after insertion
- 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 versions are available
- Extended application time of 30 days in combination with a PLS or HLS System



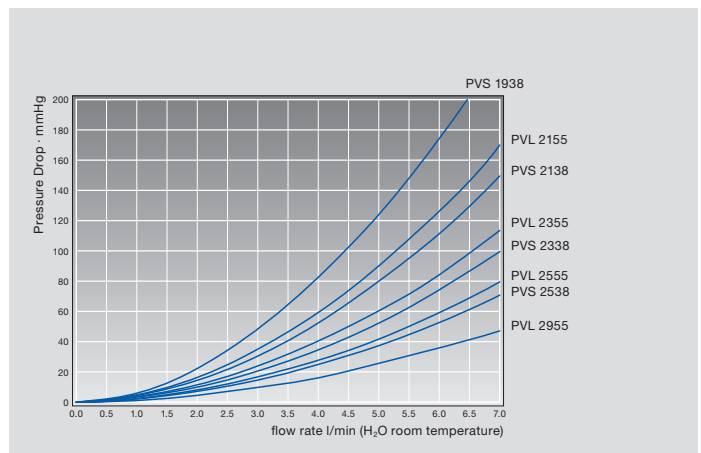
Smooth transition between introducer and cannula tip.



Depth gauge helps to define maximum insertion depth.



Flow rates vs. pressure drop for all ARTERIAL HLS CANNULAE.



Flow rates vs. pressure drop for all VENOUS HLS CANNULAE.

NEW STANDARD FOR CANNULATION

BEST CHOICE, BEST PERFORMANCE, BEST QUALITY



For percutaneous access MAQUET has developed a **PERCUTANEOUS INSERTION KIT**: Two kits with different lengths of guidewire are available to meet the needs for arterial and venous peripheral cannulation.

Appropriate components have been chosen:

- 18 gauge puncture needle
- 4 multi-step dilators:
10/12 Fr., 12/14 Fr., 14/16 Fr., 16/18 Fr.
- 0.038" x 100 cm with J tip for arterial cannulae
- 0.038" x 150 cm with J tip for venous cannulae
- Guidewire advancer
- Scalpel blade
- 20 ml syringe

Order details ARTERIAL HLS CANNULAE:

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

Order details VENOUS HLS CANNULAE:

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

Order details PERCUTANEOUS INSERTION KITS:

Art. no.	Guidewire length	
PIK 100	100 cm	For ARTERIAL HLS CANNULAE
PIK 150	150 cm	For VENOUS HLS CANNULAE

MAQUET

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GETINGE

GETINGE GROUP is a leading global provider of products and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences. We operate under the three brands of ArjoHuntleigh, GETINGE and MAQUET. ArjoHuntleigh focuses on patient mobility and wound management solutions. GETINGE provides solutions for infection control within healthcare and contamination prevention within life sciences. MAQUET specializes in solutions, therapies and products for surgical interventions and intensive care.