

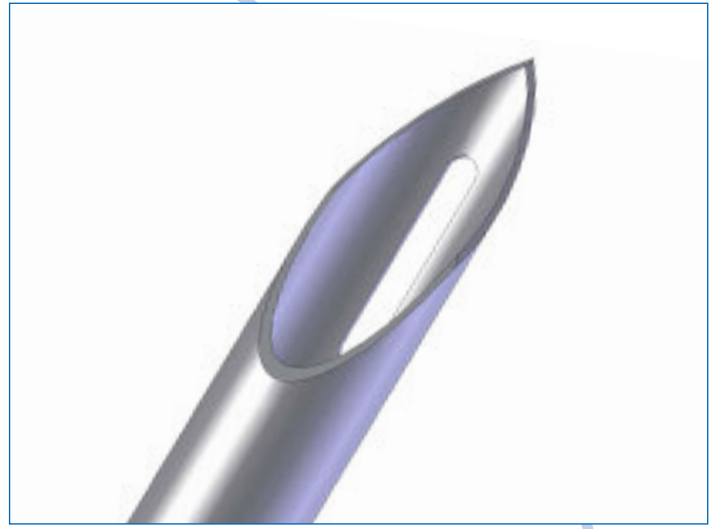
Bionic Fistula Needles

The gentle puncture



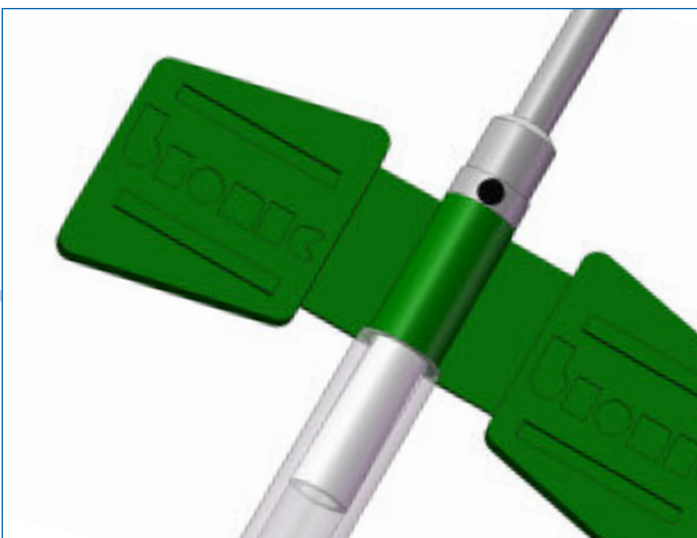


Oozing at the puncture site leads to an increased risk of infection for patients and staff. The Bionic needle design prevents these side-effects by its cylindrical hub that is tapered towards the needle. In case of oozing at the puncture side, it is possible to advance the conical hub so that it plugs the bleeding site.



Sharpness and perfection of the needle's bevel area minimize pain perception and scarring. The edges of the bevel are carefully rounded so that a smooth insertion is assured and tissue coring is prevented. The silicone coating of the Bionic Fistula Needles combines many important characteristics. It avoids an allergic reaction, blood clotting and provides the desired characteristics for puncturing and withdrawing.

Functionality

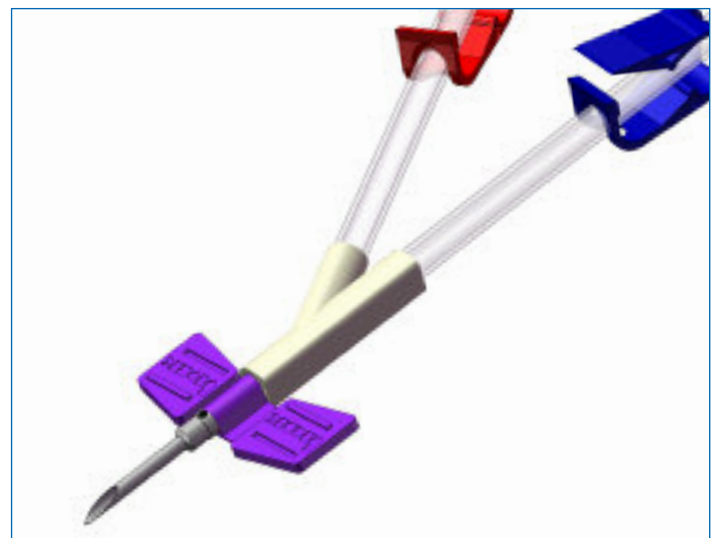
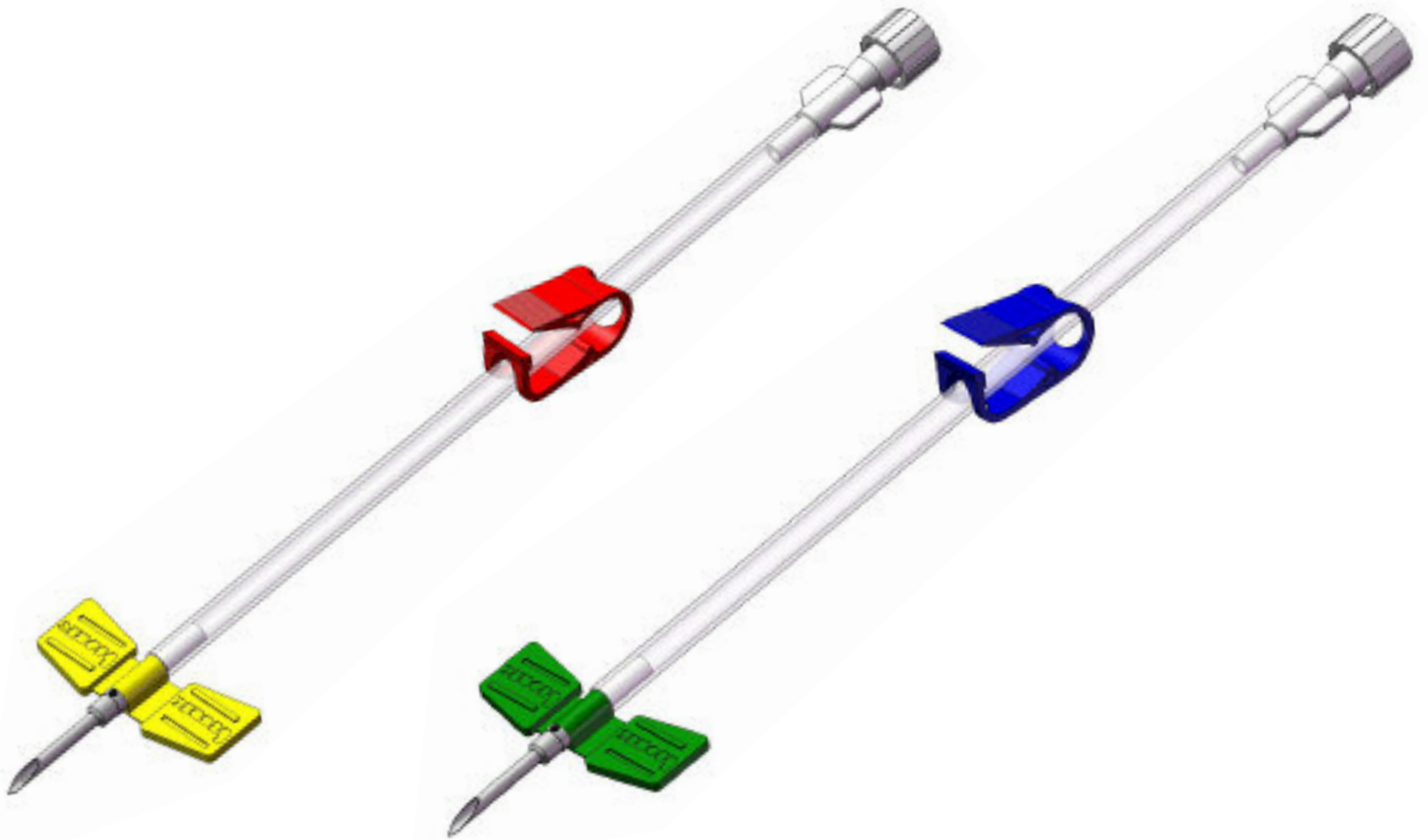


The Bionic wings have unique design advantages. Its ergonomic shape allows a good guidance of the needle. It provides a strong grip and prevents the needle from rotating during the puncturing procedure.



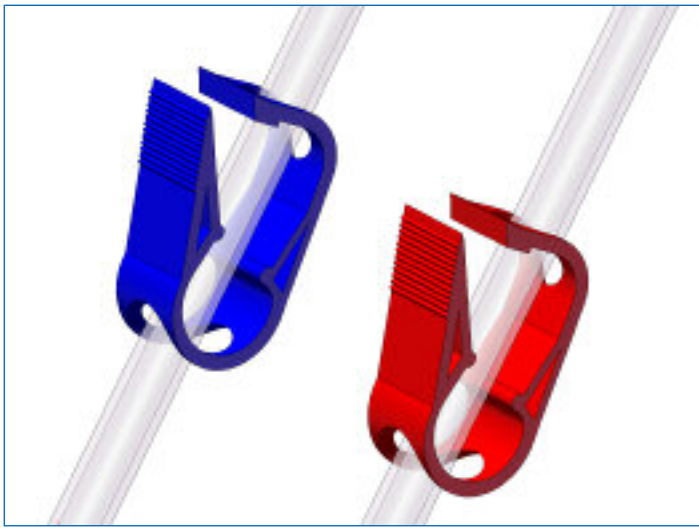
Red and black markers on the hub of the Bionic Fistula Needles show the exact position of the bevel at first glance.

Bionic Fistula Needles

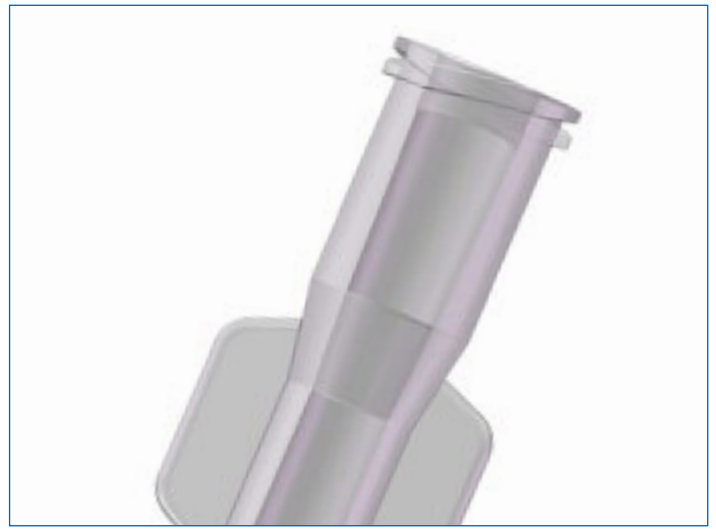


In consideration of the increased standards to prevent stick injuries, Bionic has been one of the first companies introducing a dialysis needle with integrated anti-stick device. For more information please ask for the safety needles brochure.

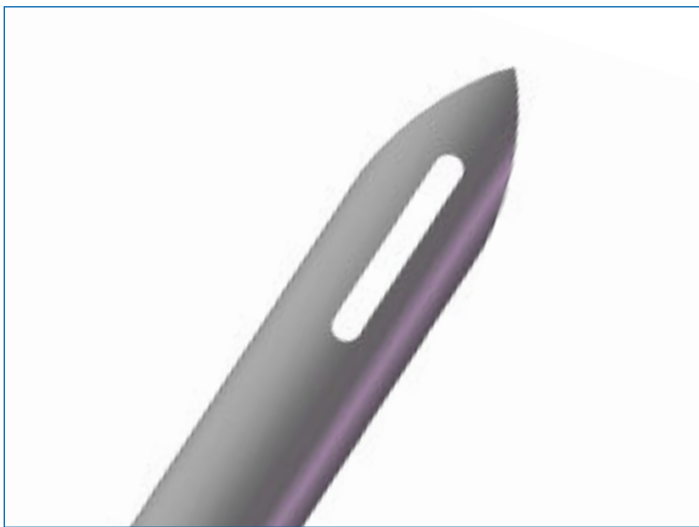
Single-Needle Dialysis can minimize puncture-related complications and preserves vascular access. Bionic-Hy-flo-needles are designed based on many years of experience assuring high blood flows and low recirculation.



The Bionic fistula needles have easy to operate light-weight clamps which are colour coded in red and blue for arterial and venous needles.

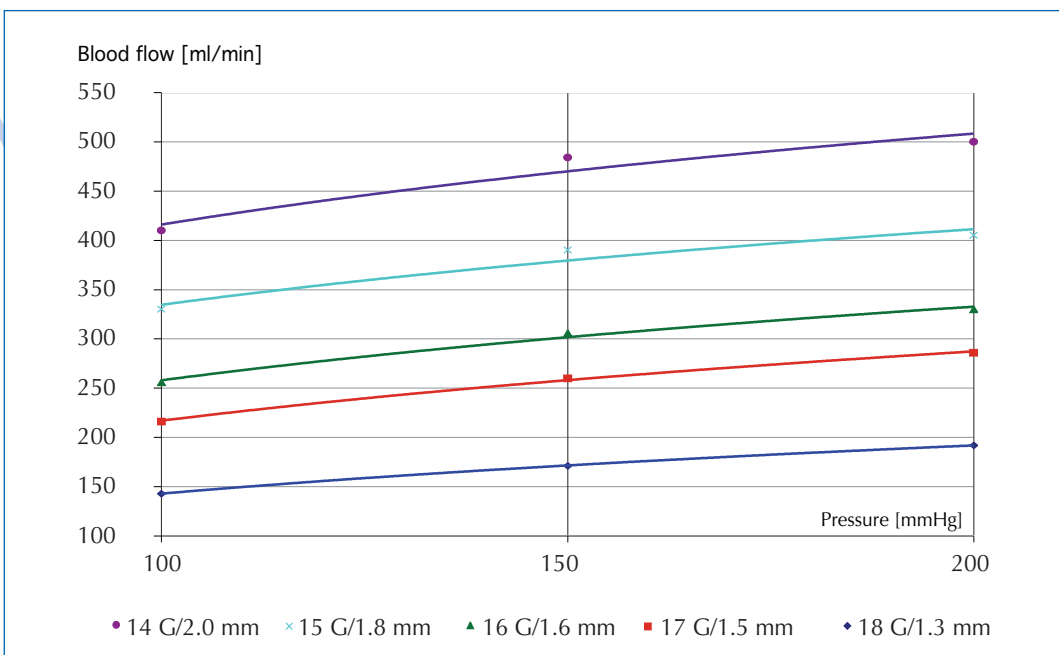


The Bionic Luer-Lock connector has a specially designed rough inner surface which prevents adapter cracks during the connection with the blood tubing system.



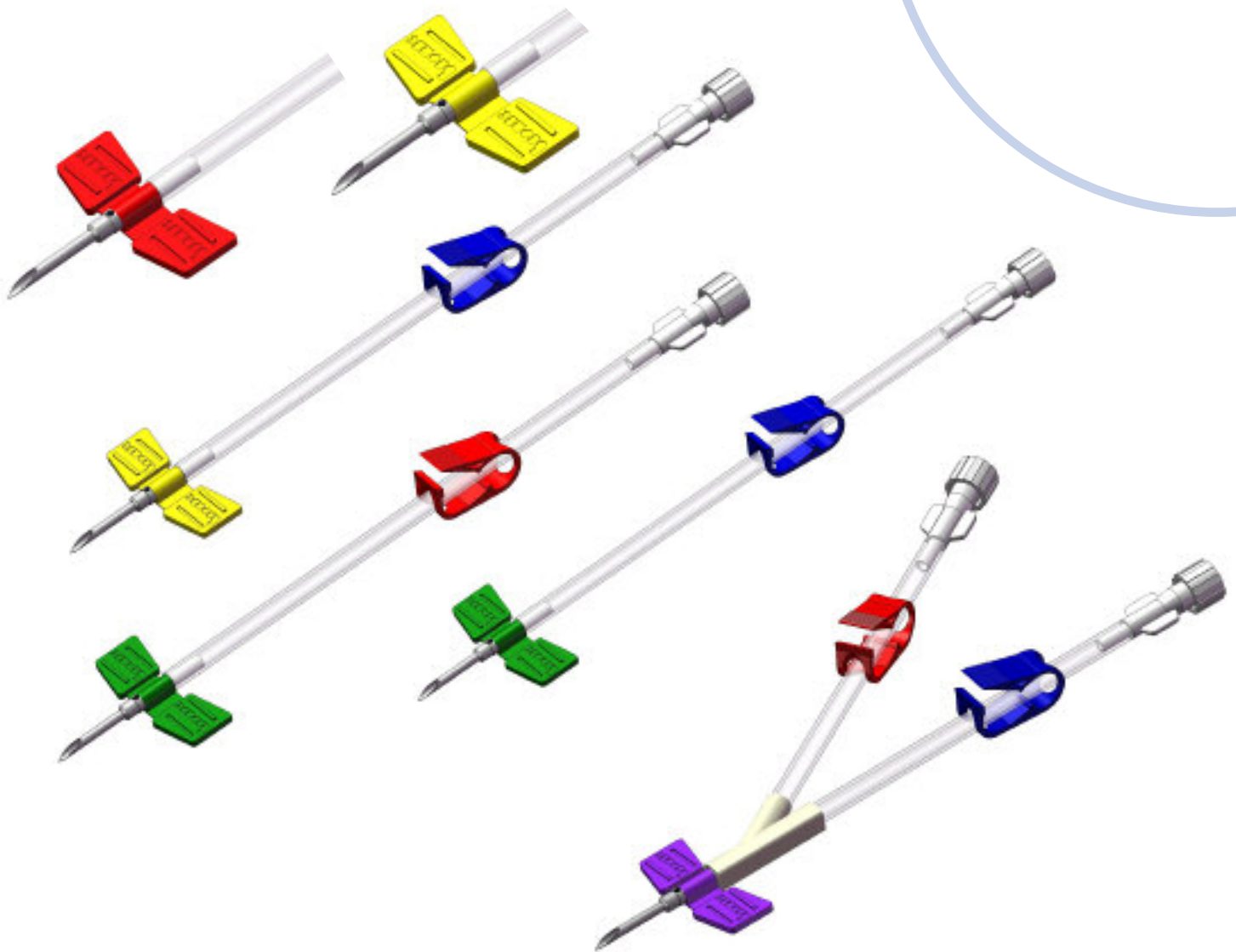
The slit-shaped back eye invented by Bionic is cut from the outer to the inner surface and afterwards rounded accurately. The specially shaped back eye prevents lesions of the vessel's inner surface and assures high blood flow without blockage of the needle.

Safety



Low flow resistance is a special feature of Bionic Fistula Needles. Extracorporeal blood flows of up to 350 ml / min are within the range of standard 15 G (1.8 mm) needles. For blood flows of 250 ml/min, 16 G (1.6 mm) needles are recommended.

Bionic Fistula Needles: Quality and reliability



The success of Bionic Fistula Needles is based on the understanding of the complex interaction between the tip bevel geometry, the professional's puncturing technique and the nature of the access vessel. Further improvements are achieved by Bionic's continuous dialog with both medical professionals and their patients. For these reasons, not only the usage of Bionic Fistula Needles has multiplied over the years but also quality has improved continuously.

Sharpness and perfection of the bevel minimize traumatization and puncturing pain. A special grinding process eliminates the well known problems of puncture-site-oozing. The edges of the bevel heel are carefully rounded to assure a smooth insertion and prevention of tissue coring.

An ultra-thin wall cannula and a streamlined inner design of Bionic Fistula Needles ensure low flow resistance. Therefore blood flow patterns in Bionic Fistula Needles are always maintained in order to prevent shear stress and damage to erythrocytes.


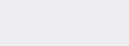

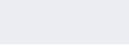
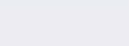

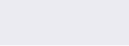


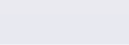

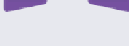
A silicone coating of the Bionic Fistula Needles provides lubrication necessary while puncturing and withdrawing of the needle. Additionally, a silicon coating in the lumen prevents the adherence of blood components.

Preserving permanent vascular blood access, the Achilles' heel of chronic dialysis, remains a critical consideration. For this reason, quality and reliability should have top priority in the selection of fistula needles. Through multiple in-process inspections at each stage of production and highly automated manufacturing Bionic assures that their fistula needles comply with the highest standards for medical devices.

Multiple variations in size and location of access vessels and different graft materials need an appropriate selection of fistula needles. The Bionic product line of over 80 different models has the right fistula needle for rare and even the most extraordinary situations.

More than 80 different types available!





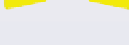

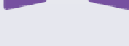
Rotating wing needles

Dimensions Gauge Ø	mm x mm Ø x length	Wing colour	Order code for tube length		
			15 cm	30 cm	50 cm
18 G	1,3 x 20 mm		-	346A 346V	-
17 G	1,5 x 15 mm		533A 533V 533AV	-	-
17 G	1,5 x 20 mm		543A 543V 543AV 543AA	546A 546V 546AV	-
17 G	1,5 x 25 mm		553A 553V 553AV	556A 556V	-
16 G	1,6 x 15 mm		633A 633V 633AV	636A 636V	-
16 G	1,6 x 20 mm		643A 643V 643AV 643AA	646A 646V 646AV	640A 640V
16 G	1,6 x 25 mm		653A 653V 653AV 653AA	656A 656V	650A 650V
15 G	1,8 x 15 mm		833A 833V 833AV	-	-
15 G	1,8 x 20 mm		843A 843V 843AV	846A 846V 846AV	840A 840V
15 G	1,8 x 25 mm		853A 853V 853AV	856A 856V	850A 850V
14 G	2,0 x 20 mm		043A 043V	-	-
14 G	2,0 x 25 mm		053A 053V	-	-

A = arterial with back eye, red clamp
 AV = set arterial and venous
 Other special sizes available on request

V = venous without back eye, blue clamp
 AA = set arterial and arterial

Hy-flo-Needles for Single-Needle Dialysis with rotating wing

Dimensions Gauge Ø	mm x mm Ø x length	Wing colour	Order code
17 G	1,5 x 20 mm		542HR
16 G	1,6 x 20 mm		642HR
16 G	1,6 x 25 mm		652HR
15 G	1,8 x 20 mm		842HR
15 G	1,8 x 25 mm		852HR
14 G	2,0 x 20 mm		042HR
14 G	2,0 x 25 mm		052HR

STERILE R

Bionic fistula needles are γ -sterilized.

