

INDEX

STANDARD, 2-PACK, SINGLE NEEDLE	4
CATHETER NEEDLES	6
SAFETOUCH™ AVF NEEDLE	10
SAFETOUCH TULIP™	12
AVF SAFETOUCH™ CATHETER NEEDLE, AVF SAFETOUCH™ SINGLE NEEDLE CATHETER NEEDLE	14
BIOHOLE™ NEEDLE, BIOHOLE™ SINGLE NEEDLE	18
BIOHOLE™ SAFETOUCH TULIP™	20
BIOHOLE™ CATHETER NEEDLE	22
BIOHOLE™ BUTTONHOLE DEVICE	24
BIOHOLE™ SCAB REMOVER	25
ON-OFF KIT	26
PUSHBAN [™]	27
SAFE DERM	28
SAFE FIX IV / IVN	29
D.MED NEPHR0FL0W™	30



Because Vascular Access is the gateway to quality of life, Nipro is dedicated to providing the best possible care to every vascular access.

Given that the arteriovenous fistula (AVF) is the method of choice for vascular access¹, special care should be taken to ensure its survival. Among others, the following needle specifications for the prevention of vascular access complications are suggested:¹

• First few cannulations of a new fistula should be performed with a 17 G needle^{1,2,4}. At a later stage, the needle gauge may be adapted to the patient's blood flow. Lower needle gauge can withstand higher blood flow rate.²

Recommended needle gauge	Blood flow rate	Color
17	< 300 ml/min	
16	300-350 ml/min	
15	350-450 ml/min	
14	> 450 ml/min	

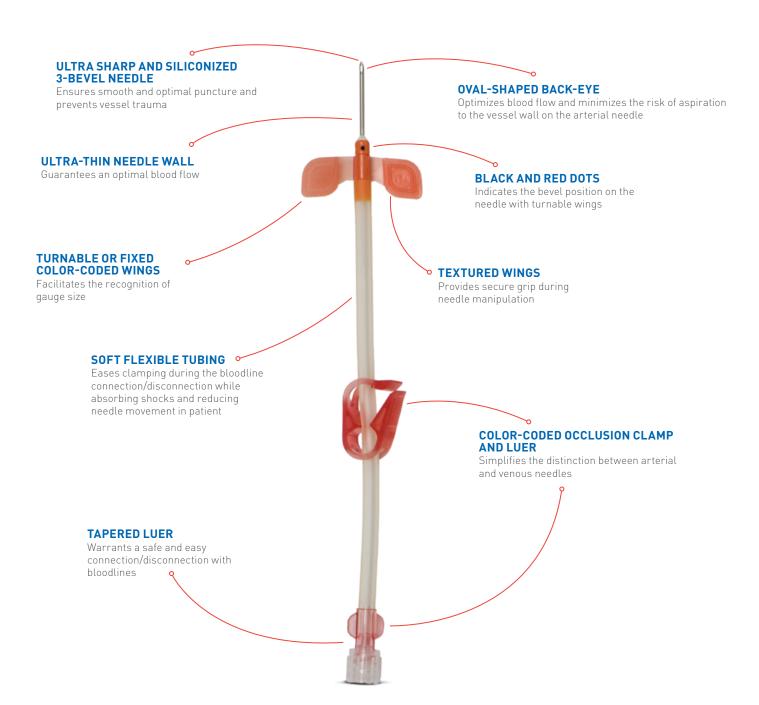
- Needle length adapted to any fistula depth.
- Turnable wings to improve the needle positioning.
- Back eye on arterial needle to optimize the blood flow and minimize the risk of aspiration to the vessel wall.²

In order to meet individual patient requirements, Nipro offers a wide range of arteriovenous fistula needles and arteriovenous catheter needles with lengths from 20 to 38 mm and gauges from 14 G to 17 G depending on the desired specifications.



STANDARD, 2-PACK, SINGLE NEEDLE

OUTSTANDING QUALITY AND PERFORMANCE FROM YEARS OF EXPERIENCE AND RIGID MANUFACTURING CONTROL



STANDARD, 2-PACK, AND SINGLE NEEDLE ADVANTAGES

- Easy to handle AVF needles
- Smooth cannulation with ultra sharp needle
- Optimal blood flow

SPECIFICATIONS

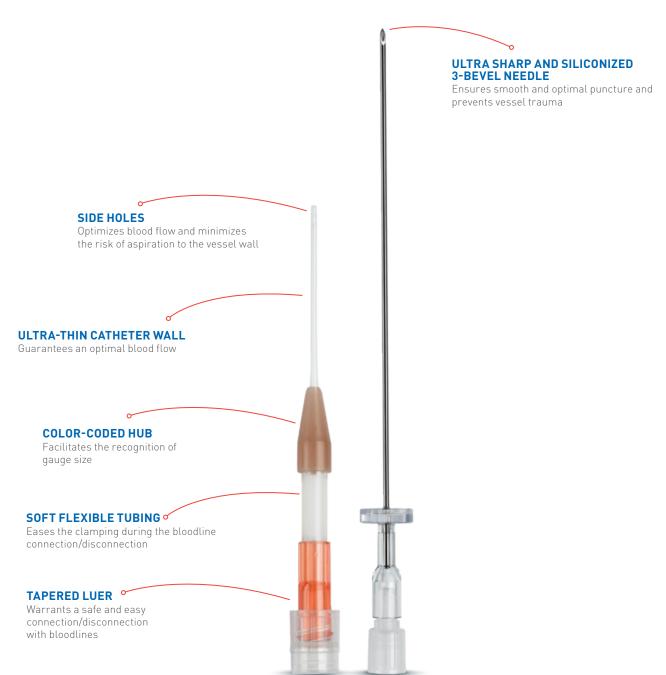
Standard	Needles	2-Pack	: Needles	Single Needles				
Arterial Needle*	Venous Needle*	1 Arterial Needle* + 1 Venous Needle*	2 Arterials Needles*	SGN*	Size (Gauge)	Needle Length (mm)	Tube Length (mm)	Color
AV-1420-HTC-15R-GT	AV-1420-TC-15B-GT	AV2P-1420-T-15-GT	AV2P-1420-HT-15-GT	SGN1420-HTC-15RB-GT	14	20	150	
AV-1425-HTC-15R-GT	AV-1425-TC-15B-GT	AV2P-1425-T-15-GT	AV2P-1425-HT-15-GT	SGN1425-HTC-15RB-GT	14	25	150	
AV-1432-HTC-15R-GT	AV-1432-TC-15B-GT	AV2P-1432-T-15-GT	AV2P-1432-HT-15-GT	SGN1432-HTC-15RB-GT	14	32	150	
AV-1420-HTC-30R-GT	AV-1420-TC-30B-GT	AV2P-1420-T-30-GT	AV2P-1420-HT-30-GT	SGN1420-HTC-30RB-GT	14	20	300	
AV-1425-HTC-30R-GT	AV-1425-TC-30B-GT	AV2P-1425-T-30-GT	AV2P-1425-HT-30-GT	SGN1425-HTC-30RB-GT	14	25	300	
AV-1432-HTC-30R-GT	AV-1432-TC-30B-GT	AV2P-1432-T-30-GT	AV2P-1432-HT-30-GT	SGN1432-HTC-30RB-GT	14	32	300	
AV-1520-HTC-15R-GT	AV-1520-TC-15B-GT	AV2P-1520-T-15-GT	AV2P-1520-HT-15-GT	SGN1520-HTC-15RB-GT	15	20	150	
AV-1525-HTC-15R-GT	AV-1525-TC-15B-GT	AV2P-1525-T-15-GT	AV2P-1525-HT-15-GT	SGN1525-HTC-15RB-GT	15	25	150	
AV-1532-HTC-15R-GT	AV-1532-TC-15B-GT	AV2P-1532-T-15-GT	AV2P-1532-HT-15-GT	SGN1532-HTC-15RB-GT	15	32	150	
AV-1520-HTC-30R-GT	AV-1520-TC-30B-GT	AV2P-1520-T-30-GT	AV2P-1520-HT-30-GT	SGN1520-HTC-30RB-GT	15	20	300	
AV-1525-HTC-30R-GT	AV-1525-TC-30B-GT	AV2P-1525-T-30-GT	AV2P-1525-HT-30-GT	SGN1525-HTC-30RB-GT	15	25	300	
AV-1532-HTC-30R-GT	AV-1532-TC-30B-GT	AV2P-1532-T-30-GT	AV2P-1532-HT-30-GT	SGN1532-HTC-30RB-GT	15	32	300	
AV-1620-HTC-15R-GT	AV-1620-TC-15B-GT	AV2P-1620-T-15-GT	AV2P-1620-HT-15-GT	SGN1620-HTC-15RB-GT	16	20	150	
AV-1625-HTC-15R-GT	AV-1625-TC-15B-GT	AV2P-1625-T-15-GT	AV2P-1625-HT-15-GT	SGN1625-HTC-15RB-GT	16	25	150	
AV-1632-HTC-15R-GT	AV-1632-TC-15B-GT	AV2P-1632-T-15-GT	AV2P-1632-HT-15-GT	SGN1632-HTC-15RB-GT	16	32	150	
AV-1620-HTC-30R-GT	AV-1620-TC-30B-GT	AV2P-1620-T-30-GT	AV2P-1620-HT-30-GT	SGN1620-HTC-30RB-GT	16	20	300	
AV-1625-HTC-30R-GT	AV-1625-TC-30B-GT	AV2P-1625-T-30-GT	AV2P-1625-HT-30-GT	SGN1625-HTC-30RB-GT	16	25	300	
AV-1632-HTC-30R-GT	AV-1632-TC-30B-GT	AV2P-1632-T-30-GT	AV2P-1632-HT-30-GT	SGN1632-HTC-30RB-GT	16	32	300	
AV-1720-HTC-15R-GT	AV-1720-TC-15B-GT	AV2P-1720-T-15-GT	AV2P-1720-HT-15-GT	SGN1720-HTC-15RB-GT	17	20	150	
AV-1725-HTC-15R-GT	AV-1725-TC-15B-GT	AV2P-1725-T-15-GT	AV2P-1725-HT-15-GT	SGN1725-HTC-15RB-GT	17	25	150	
AV-1732-HTC-15R-GT	AV-1732-TC-15B-GT	AV2P-1732-T-15-GT	AV2P-1732-HT-15-GT	SGN1732-HTC-15RB-GT	17	32	150	
AV-1720-HTC-30R-GT	AV-1720-TC-30B-GT	AV2P-1720-T-30-GT	AV2P-1720-HT-30-GT	SGN1720-HTC-30RB-GT	17	20	300	
AV-1725-HTC-30R-GT	AV-1725-TC-30B-GT	AV2P-1725-T-30-GT	AV2P-1725-HT-30-GT	SGN1725-HTC-30RB-GT	17	25	300	
AV-1732-HTC-30R-GT	AV-1732-TC-30B-GT	AV2P-1732-T-30-GT	AV2P-1732-HT-30-GT	SGN1732-HTC-30RB-GT	17	32	300	

^{*} Needles with turnable wings. Arterial and venous needles are also available with fixed wings instead of turnable wings. Please contact your local office for other specifications, order quantities, and availability.



SINGLE NEEDLE





CATHETER NEEDLE ADVANTAGES

- Plastic fistula needles may prevent vascular access complications¹
- Safe cannulation during fistula maturation¹
- Decreased risk of perforation¹
- Greater patient mobility
- Better option for patients allergic to metal

SPECIFICATIONS

AVF Catheter Needle	Size (Gauge)	Catheter Length (mm)	Color
AV-CATH-1420-GJ	14	20	
AV-CATH-1425-GJ	14	25	
AV-CATH-1432-GJ	14	32	
AV-CATH-1438-GJ	14	38	
AV-CATH-1525-GJ	15	25	
AV-CATH-1532-GJ	15	32	
AV-CATH-1538-GJ	15	38	
AV-CATH-1625-GJ	16	25	
AV-CATH-1632-GJ	16	32	
AV-CATH-1638-GJ	16	38	
AV-CATH-1725-GJ	17	25	
AV-CATH-1732-GJ	17	32	
AV-CATH-1738-GJ	17	38	

Please contact your local office for other specifications, order quantities, and availability.



THE FUNDAMENTAL PROTECTION AGAINST NEEDLESTICK INJURIES (NSI)

Every year, healthcare professionals are affected by needlestick and sharps injuries. The World Health Organization estimates that 3 of the 35 million healthcare professionals worldwide are exposed to bloodborne pathogens each year as a result of these injuries.³

Almost 50% of injuries are not reported, which leads to a significant under-estimation.⁴

Since 1 in 5 patients in dialysis centers globally are considered "at risk" for HIV and Hepatitis B and C, NSI are a major occupational hazard for both healthcare professionals and hospitals.⁵

EXTRA PRESSURE ON HEALTHCARE PROFESSIONALS

- After a NSI and before contamination is confirmed or denied:
 - Stress and decreased productivity
- For those who contract a disease as a result of their injury:
 - Lifelong consequences
 - Physical and emotional adjustment
 - Financial burdens
 - Inability to continue working in the healthcare profession in some cases

ADDITIONAL BURDENS FOR HOSPITALS

- Costs for testing viral contamination, compensation, and leave of absence
- Loss of professional knowledge and time spent training new persons

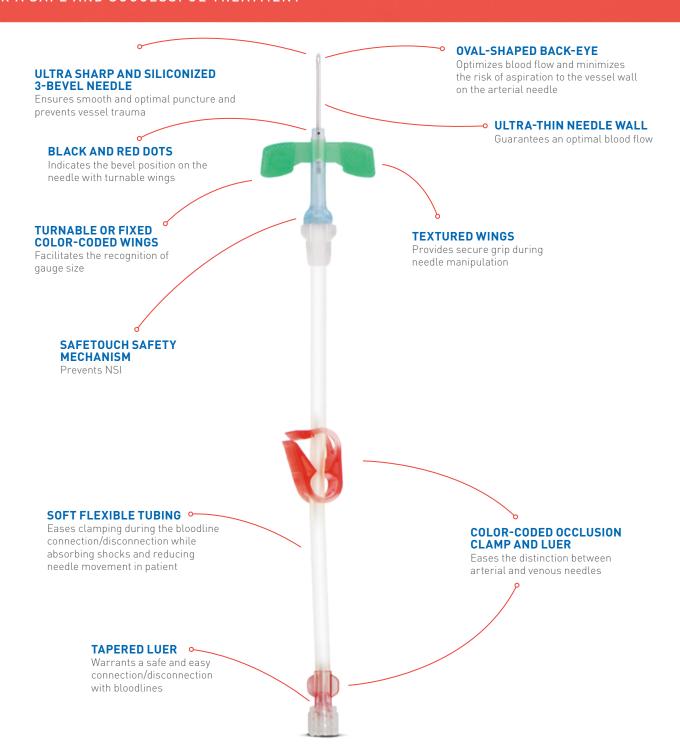
NSI may be prevented by the use of medical devices that incorporate "safety-engineered protection mechanisms" and the elimination of the unnecessary use of sharps devices. The recommendations of Clinical Guidelines for the prevention of contamination are as follow:⁶

- The safety mechanism must be an integral part of the safety device, not a separate accessory
- The activation of the safety mechanism must be convenient and allow the care giver to maintain appropriate control over the procedure
- A single-handed or automatic activation is preferable
- The activation of the safety mechanism must manifest itself by means of an audible, tactile, or visual sign to the health professional
- The safety mechanisms should not be easily reversible once activated



SAFETOUCH™ AVF NEEDLE

FOR A SAFE AND SUCCESSFUL TREATMENT



SAFETOUCH™ AVF NEEDLE FEATURES

- Reduced risk of needle stick injury
- Non-reversible mechanism
- Active safety feature using a one-handed technique
- Secured locking confirmed by an audible and tactile click
- Unique locking mechanism

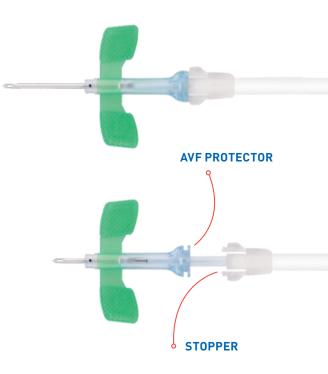
SAFETOUCH™ AVF NEEDLE SAFETY MECHANISM

- Hold down the wing protector and/or the wings with one hand
- With the other hand, release the lock by pressing in both sides of the stopper
- Slide the stopper forward until it becomes completely locked with an audible or tactile click

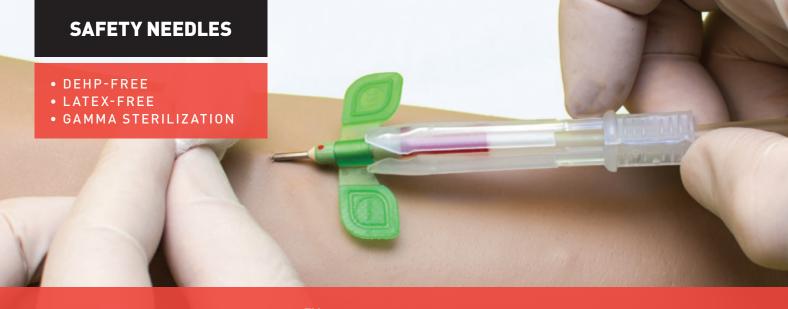
SPECIFICATIONS

Arterial Needle*	Venous Needle*	Size (Gauge)	Needle Length (mm)	Tube Length (mm)	Color
AVSF1420-HTC-15RGT	AVSF1420-TC-15B-GT	14	20	150	
AVSF1425-HTC-15RGT	AVSF1425-TC-15B-GT	14	25	150	
AVSF1432-HTC-15RGT	AVSF1432-TC-15B-GT	14	32	150	
AVSF1420-HTC-30RGT	AVSF1420-TC-30B-GT	14	20	300	
AVSF1425-HTC-30RGT	AVSF1425-TC-30B-GT	14	25	300	
AVSF1432-HTC-30RGT	AVSF1432-TC-30B-GT	14	32	300	
AVSF1520-HTC-15RGT	AVSF1520-TC-15B-GT	15	20	150	
AVSF1525-HTC-15RGT	AVSF1525-TC-15B-GT	15	25	150	
AVSF1532-HTC-15RGT	AVSF1532-TC-15B-GT	15	32	150	
AVSF1520-HTC-30RGT	AVSF1520-TC-30B-GT	15	20	300	
AVSF1525-HTC-30RGT	AVSF1525-TC-30B-GT	15	25	300	
AVSF1532-HTC-30RGT	AVSF1532-TC-30B-GT	15	32	300	
AVSF1620-HTC-15RGT	AVSF1620-TC-15B-GT	16	20	150	
AVSF1625-HTC-15RGT	AVSF1625-TC-15B-GT	16	25	150	
AVSF1632-HTC-15RGT	AVSF1632-TC-15B-GT	16	32	150	
AVSF1620-HTC-30RGT	AVSF1620-TC-30B-GT	16	20	300	
AVSF1625-HTC-30RGT	AVSF1625-TC-30B-GT	16	25	300	
AVSF1632-HTC-30RGT	AVSF1632-TC-30B-GT	16	32	300	
AVSF1720-HTC-15RGT	AVSF1720-TC-15B-GT	17	20	150	
AVSF1725-HTC-15RGT	AVSF1725-TC-15B-GT	17	25	150	
AVSF1732-HTC-15RGT	AVSF1732-TC-15B-GT	17	32	150	
AVSF1720-HTC-30RGT	AVSF1720-TC-30B-GT	17	20	300	
AVSF1725-HTC-30RGT	AVSF1725-TC-30B-GT	17	25	300	
AVSF1732-HTC-30RGT	AVSF1732-TC-30B-GT	17	32	300	

^{*} Needles with turnable wings. Arterial and venous needles are also available with fixed wings instead of turnable wings. Please contact your local office for other specifications, order quantities, and availability.

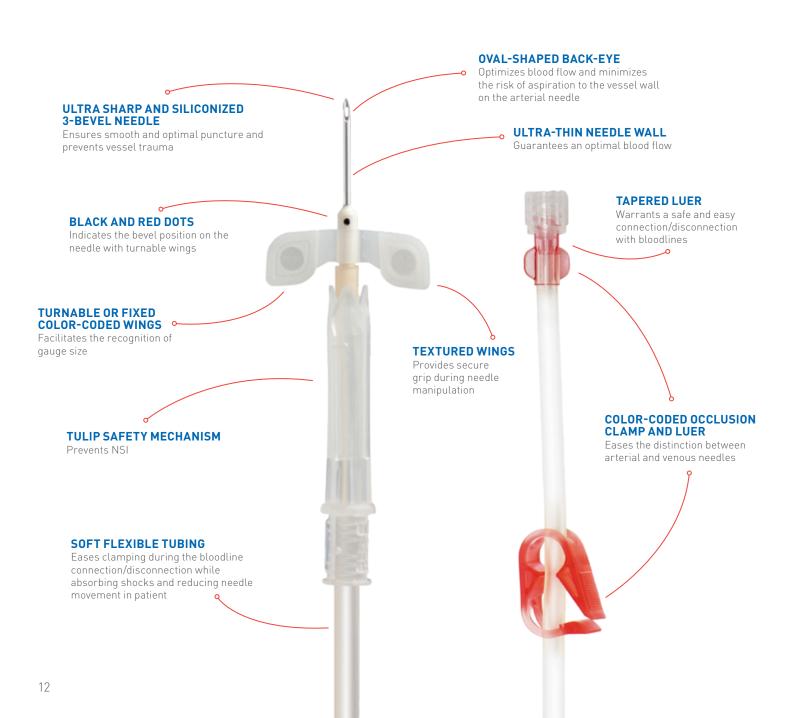






SAFETOUCH TULIP™

ERGONOMIC PROTECTION



SAFETOUCH TULIP™ FEATURES

- Reduced risk of needle stick injury
- Non-reversible mechanism
- Active safety feature using a one-handed technique
- Secured locking confirmed by a tactile click
- Unique patented locking mechanism*

SAFETOUCH TULIP™ SAFETY MECHANISM

- Hold down the wing protector and/or the wings with one hand
- With the other hand, slide the TULIP needle protector forward until two petals of the TULIP needle protector tip are positioned over the flattened wings
- Grasp the tubing at the base of the TULIP needle protector
- Pull on the tubing while pushing the TULIP needle protector forward, completely covering the needle until wings are secured in the TULIP needle protector with a tactile click

SPECIFICATIONS

Arterial Needle**	Venous Needle*	Size (Gauge)	Needle Length (mm)	Tube Length (mm)	Color
AVT-1420-HTC-30R-GT	AVT-1420-TC-30B-GT	14	20	300	
AVT-1425-HTC-30R-GT	AVT-1425-TC-30B-GT	14	25	300	
AVT-1432-HTC-30R-GT	AVT-1432-TC-30B-GT	14	32	300	
AVT-1520-HTC-30R-GT	AVT-1520-TC-30B-GT	15	20	300	
AVT-1525-HTC-30R-GT	AVT-1525-TC-30B-GT	15	25	300	
AVT-1532-HTC-30R-GT	AVT-1532-TC-30B-GT	15	32	300	
AVT-1620-HTC-30R-GT	AVT-1620-TC-30B-GT	16	20	300	
AVT-1625-HTC-30R-GT	AVT-1625-TC-30B-GT	16	25	300	
AVT-1632-HTC-30R-GT	AVT-1632-TC-30B-GT	16	32	300	
AVT-1720-HTC-30R-GT	AVT-1720-TC-30B-GT	17	20	300	
AVT-1725-HTC-30R-GT	AVT-1725-TC-30B-GT	17	25	300	
AVT-1732-HTC-30R-GT	AVT-1732-TC-30B-GT	17	32	300	

^{**} Needles with turnable wings. Arterial and venous needles are also available with fixed wings instead of turnable wings. Please contact your local office for other specifications, order quantities, and availability.

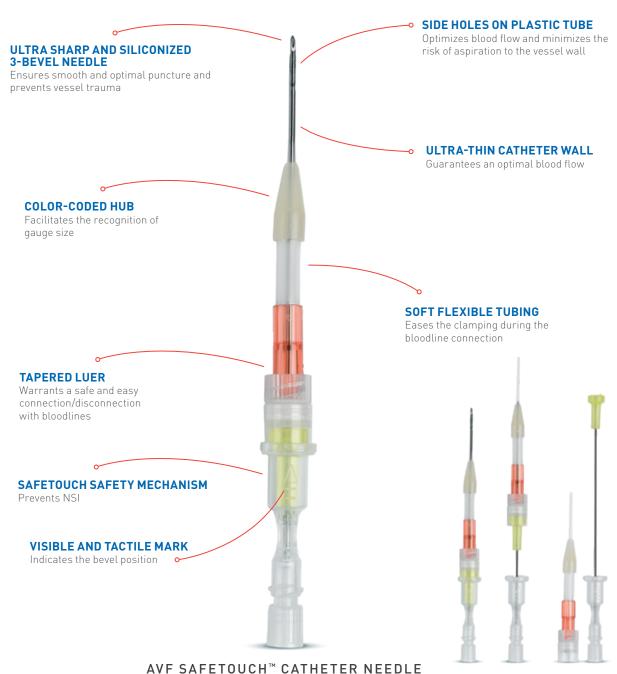


^{*} Patent active in Germany, France, United Kingdom, Italy, and Spain



AVF SAFETOUCH™ CATHETER NEEDLE, AVF SAFETOUCH™ SINGLE NEEDLE CATHETER NEEDLE

SAFE AND EASY MANIPULATION TO INCREASE PATIENT COMFORT



SAFETOUCH CATHETER NEEDLE ADVANTAGES

- Plastic fistula needles may prevent vascular access complications¹
- Reduced risk of needle stick injury
- Safe cannulation during fistula maturation¹
- Decreased risk of perforation¹
- Greater patient mobility
- Better option for patients allergic to metal

SAFETOUCH CATHETER NEEDLE, SAFETOUCH SINGLE NEEDLE CATHETER NEEDLE FEATURES

- Passive safety device
- Pre-removal activation: immediate shielding of needle upon withdrawal from catheter
- Non-reversible mechanism
- Unique patented locking mechanism

SPECIFICATIONS

AVF SAFETOUCH CATHETER NEEDLE

Catheter	Size (Gauge)	Catheter Length (mm)	Color
AV-SF-CATH -1420-GJ	14	20	
AV-SF-CATH-1425-GJ	14	25	
AV-SF-CATH-1432-GJ	14	32	
AV-SF-CATH-1438-GJ	14	38	
AV- SF-CATH-1525-GJ	15	25	
AV- SF-CATH-1532-GJ	15	32	
AV- SF-CATH-1538-GJ	15	38	
AV- SF-CATH-1625-GJ	16	25	
AV- SF-CATH-1632-GJ	16	32	
AV- SF-CATH-1638-GJ	16	38	
AV- SF-CATH-1725-GJ	17	25	
AV- SF-CATH-1732-GJ	17	32	
AV- SF-CATH-1738-GJ	17	38	

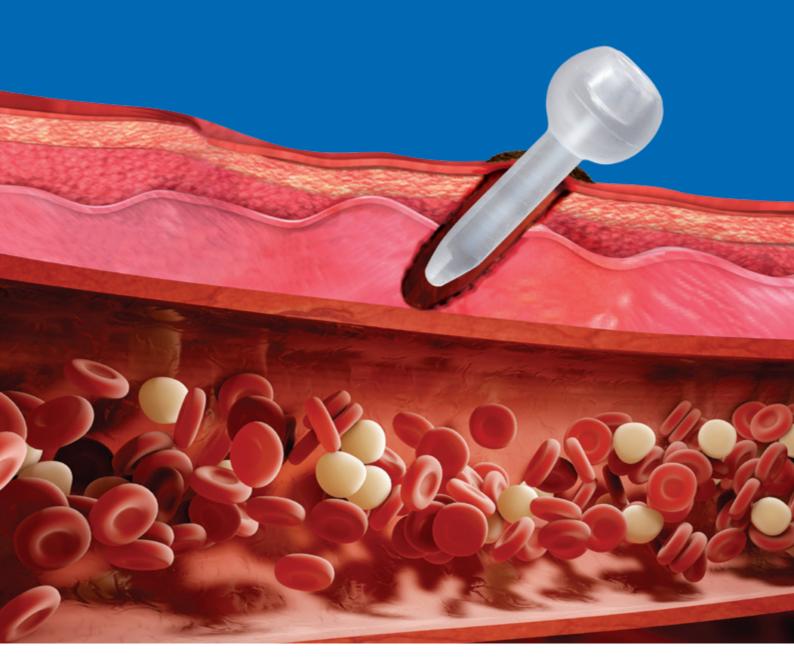
Please contact your local office for other specifications, order quantities, and availability.

AVF SAFETOUCH AVF SINGLE NEEDLE CATHETER NEEDLE

Catheter	Size (Gauge)	Catheter Length (mm)	Color
SGNSF-CATH-1425-GJ	14	25	
SGNSF-CATH-1432-GJ	14	32	
SGNSF-CATH-1525-GJ	15	25	
SGNSF-CATH-1532-GJ	15	32	
SGNSF-CATH-1625-GJ	16	25	
SGNSF-CATH-1632-GJ	16	32	

Please contact your local office for other specifications, order quantities, and availability.





BUTTONHOLE TECHNIQUE: THE ULTIMATE COMBINATION OF SAFETY AND COMFORT

Experience how the buttonhole technique can help you maximize patient comfort, provide a better experience for your medical staff, and improve your center's efficiency.

Clinical Practice Guidelines recommend different procedures for the prevention of vascular access complications, including the use of the buttonhole technique:^{2,7}

- Reduces pain
- Reduces aneurysms
- Lowers vascular access failure
- Facilitates access for self-cannulation
- Improves appearance of the fistula

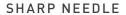
OPTIMIZED PATIENT COMFORT

- Reduces pain compared to rope-ladder technique 8-12
- Minimizes potential needling error and hematoma formation ^{11, 13, 14}
- Increases freedom for home dialysis patients, as they can self-cannulate
- Esthetical aspect: reduces aneurysma formation and only 2 puncture sites ¹¹
- Decreases bleeding time 5, 15, 16
- Diminishes tunnel track deformation
- Reduces penetration force

IMPROVED OPERATIONAL EFFICIENCY

- Extends life of the vascular access 8
- Decreases amount of needle attempts 9, 17
- Reduces workload: shorter bleeding time, prevents rebleeding, avoids hematoma and linked complications ^{5, 10, 15, 16}





For standard cannulation techniques and first cannulation(s) for the buttonhole technique



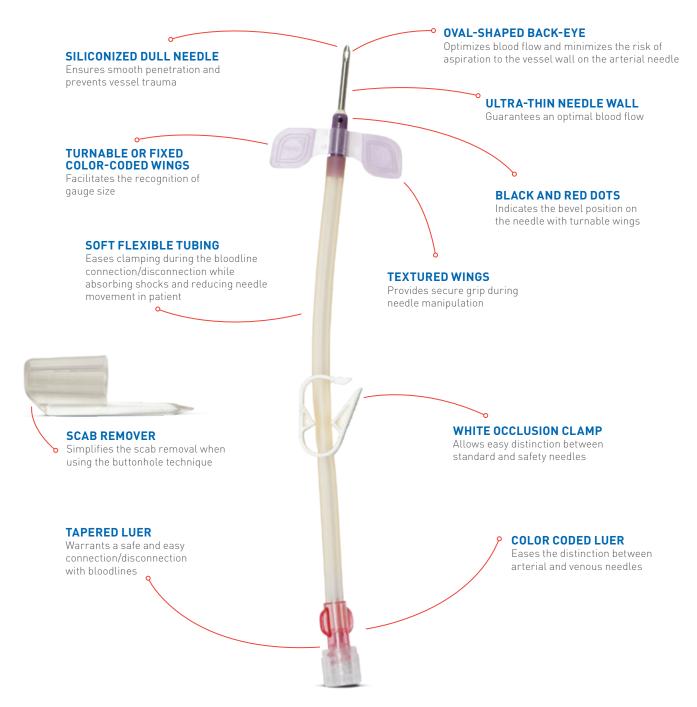
DULL NEEDLE

For the buttonhole technique



BIOHOLE™ NEEDLE, BIOHOLE™ SINGLE NEEDLE

REDUCED PAIN DURING ARTERIOVENOUS INSERTION



BIOHOLE AND BIOHOLE SINGLE NEEDLE ADVANTAGES

- Specially designed to be used with the buttonhole technique
- Easy to handle BioHole needle
- Optimal blood flow

SPECIFICATIONS

Arterial Needle*	Venous Needle*	Single Needle*	Size (Gauge)	Needle Length (mm)	Tube Length (mm)	Color
AVD1420-HTC-15R-GT	AVD1420-TC-15B-GT	SGD1420-HTC-15RBGT	14	20	150	
AVD1425-HTC-15R-GT	AVD1425-TC-15B-GT	SGD1425-HTC-15RBGT	14	25	150	
AVD1432-HTC-15R-GT	AVD1432-TC-15B-GT	SGD1432-HTC-15RBGT	14	32	150	
AVD1420-HTC-30R-GT	AVD1420-TC-30B-GT	SGD1420-HTC-30RBGT	14	20	300	
AVD1425-HTC-30R-GT	AVD1425-TC-30B-GT	SGD1425-HTC-30RB-GT	14	25	300	
AVD1432-HTC-30R-GT	AVD1432-TC-30B-GT	SGD1432-HTC-30RBGT	14	32	300	
AVD1520-HTC-15R-GT	AVD1520-TC-15B-GT	SGD1520-HTC-15RBGT	15	20	150	
AVD1525-HTC-15R-GT	AVD1525-TC-15B-GT	SGD1525-HTC-15RBGT	15	25	150	
AVD1532-HTC-15R-GT	AVD1532-TC-15B-GT	SGD1532-HTC-15RBGT	15	32	150	
AVD1520-HTC-30R-GT	AVD1520-TC-30B-GT	SGD1520-HTC-30RBGT	15	20	300	
AVD1525-HTC-30R-GT	AVD1525-TC-30B-GT	SGD1525-HTC-30RBGT	15	25	300	
AVD1532-HTC-30R-GT	AVD1532-TC-30B-GT	SGD1532-HTC-30RBGT	15	32	300	
AVD1620-HTC-15R-GT	AVD1620-TC-15B-GT	SGD1620-HTC-15RBGT	16	20	150	
AVD1625-HTC-15R-GT	AVD1625-TC-15B-GT	SGD1625-HTC-15RBGT	16	25	150	
AVD1632-HTC-15R-GT	AVD1632-TC-15B-GT	SGD1632-HTC-15RBGT	16	32	150	
AVD1620-HTC-30R-GT	AVD1620-TC-30B-GT	SGD1620-HTC-30RBGT	16	20	300	
AVD1625-HTC-30R-GT	AVD1625-TC-30B-GT	SGD1625-HTC-30RBGT	16	25	300	
AVD1632-HTC-30R-GT	AVD1632-TC-30B-GT	SGD1632-HTC-30RBGT	16	32	300	
AVD1720-HTC-15R-GT	AVD1720-TC-15B-GT	SGD1720-HTC-15RBGT	17	20	150	
AVD1725-HTC-15R-GT	AVD1725-TC-15B-GT	SGD1725-HTC-15RBGT	17	25	150	
AVD1732-HTC-15R-GT	AVD1732-TC-15B-GT	SGD1732-HTC-15RBGT	17	32	150	
AVD1720-HTC-30R-GT	AVD1720-TC-30B-GT	SGD1720-HTC-30RBGT	17	20	300	
AVD1725-HTC-30R-GT	AVD1725-TC-30B-GT	SGD1725-HTC-30RBGT	17	25	300	
AVD1732-HTC-30R-GT	AVD1732-TC-30B-GT	SGD1732-HTC-30RBGT	17	32	300	

^{*} Needles with turnable wings. Arterial and venous needles are also available with fixed wings instead of turnable wings. Please contact your local office for other specifications, order quantities, and availability.



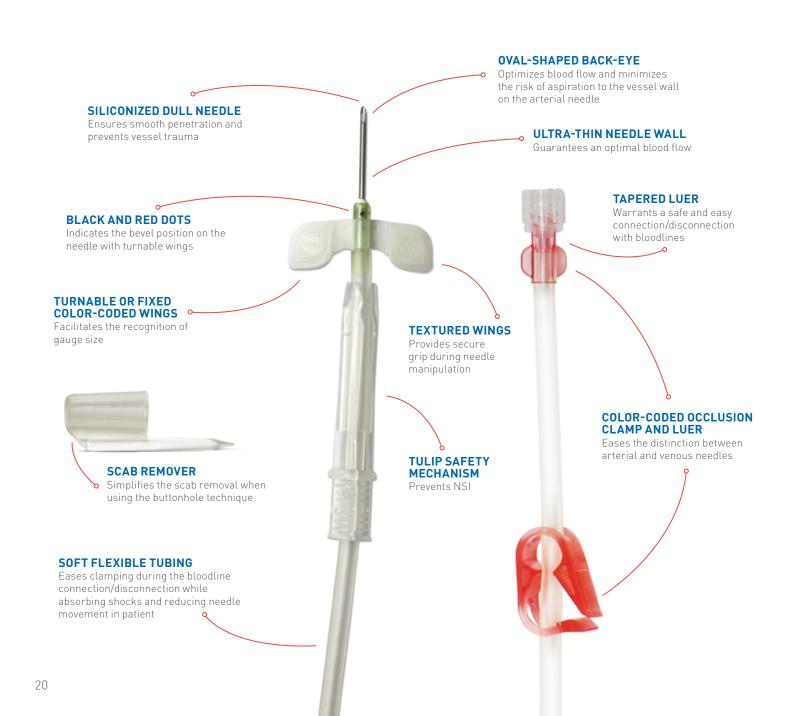






BIOHOLE™ SAFETOUCH TULIP™

REDUCED PAIN DURING ARTERIOVENOUS INSERTION WHILE ENSURING SAFETY FOR ALL



BIOHOLE™ SAFETOUCH TULIP™ NEEDLE FEATURES

- Specially designed to be used with the buttonhole technique
- Easy to handle
- Optimal blood flow
- Reduced risk of needle stick injury
- Non-reversible mechanism
- Active safety feature using a one-handed technique
- Secured locking confirmed by a tactile click*

BIOHOLE™ SAFETOUCH TULIP™ SAFETY MECHANISM

- Hold down the wing protector and/or the wings with one hand
- With the other hand, slide the TULIP needle protector forward until two petals of the TULIP needle protector tip are positioned over the flattened wings
- Grasp the tubing at the base of the TULIP needle protector
- Pull on the tubing while pushing the TULIP needle protector forward, completely covering the needle until wings are secured in the TULIP needle protector with a tactile click

SPECIFICATIONS

Arterial Needle**	Venous Needle**	Size (Gauge)	Needle Length (mm)	Tube Length (mm)	Color
AVDT1425-HTC-30RGT	AVDT1425-TC-30BGT	14	25	300	
AVDT1432-HTC-30RGT	AVDT1432-TC-30BGT	14	32	300	
AVDT1525-HTC-30RGT	AVDT1525-TC-30BGT	15	25	300	
AVDT1532-HTC-30RGT	AVDT1532-TC-30BGT	15	32	300	
AVDT1625-HTC-30RGT	AVDT1625-TC-30BGT	16	25	300	
AVDT1632-HTC-30RGT	AVDT1632-TC-30BGT	16	32	300	
AVDT1725-HTC-30RGT	AVDT1725-TC-30BGT	17	25	300	
AVDT1732-HTC-30RGT	AVDT1732-TC-30BGT	17	32	300	

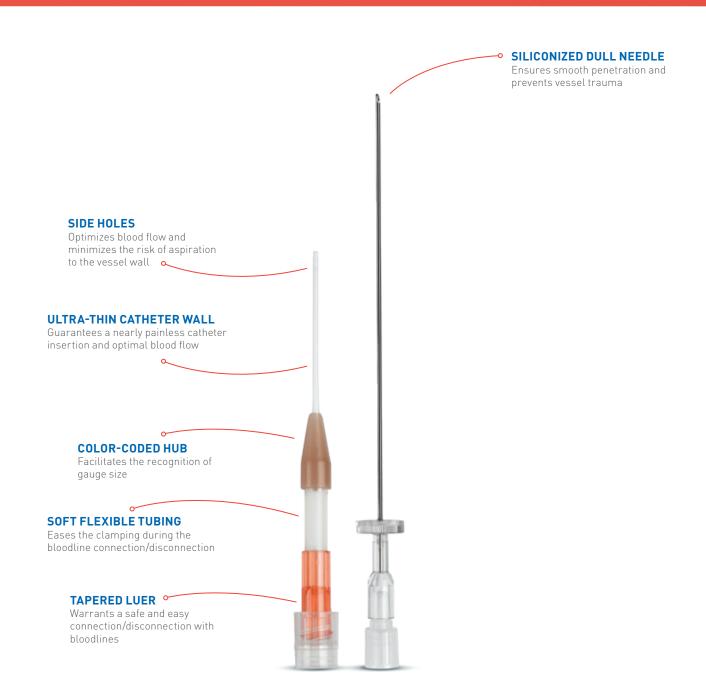
^{**} Needles with turnable wings. Arterial and venous needles are also available with fixed wings instead of turnable wings. Please contact your local office for other specifications, order quantities, and availability.





BIOHOLE™ CATHETER NEEDLE

REDUCED PAIN AND INCREASED COMFORT DURING ARTERIOVENOUS INSERTION



BIOHOLE CATHETER NEEDLE ADVANTAGES

- Plastic fistula needles may prevent vascular access complications ¹
- Safe cannulation during fistula maturation ¹
- Decreased risk of perforation ¹
- Greater patient mobility
- Better option for patients allergic to metal

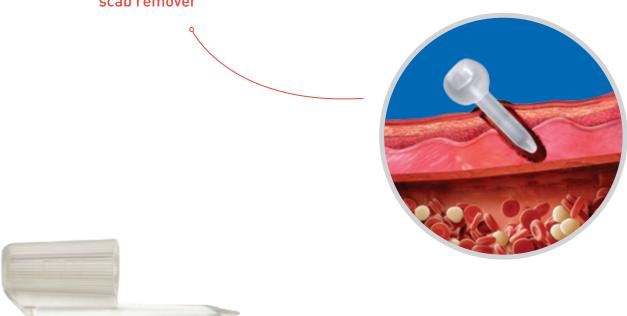
SPECIFICATIONS

Catheter Needle	Size (Gauge)	Catheter Length (mm)	Color
AV-D-CATH-1425-GJ	14	25	
AV-D-CATH-1432-GJ	14	32	
AV-D-CATH-1438-GJ	14	38	
AV-D-CATH-1525-GJ	15	25	
AV-D-CATH-1532-GJ	15	32	
AV-D-CATH-1538-GJ	15	38	
AV-D-CATH-1625-GJ	16	25	
AV-D-CATH-1632-GJ	16	32	
AV-D-CATH-1638-GJ	16	38	
AV-D-CATH-1725-GJ	17	25	
AV-D-CATH-1732-GJ	17	32	
AV-D-CATH-1738-GJ	17	38	

Please contact your local office for other specifications, order quantities, and availability.

BIOHOLE CATHETER NEEDLES

form the perfect combination with the BioHole Buttonhole Device and the individual BioHole scab remover





BIOHOLE™ BUTTONHOLE DEVICE

FASTER TUNNEL TRACK CREATION FOR THE BUTTONHOLE TECHNIQUE

The BioHole buttonhole device is effective in the creation of tunnel tracks for the buttonhole technique. The BioHole stick is inserted into the needle track toward the access vessel, along the same path as the puncture needle that was just previously removed.

BIOHOLE STICK IS COMFORTABLE FOR PATIENTS

- Reduced number of cannulations with a sharp needle leads to less tunnel deformation and fewer complications 8, 18
- Minimized pain by using the BioHole stick to establish the tunnel
- Reduced tunnel formation time from 2-3 months to 14 days 8, 18
- Extended range of BioHole stick lengths

BIOHOLE STICK PROVIDES BENEFITS TO MEDICAL STAFF

- Simplified access creation, as early as the second session
- Limited use of sharp needles
- Accelerated method to create a buttonhole tunnel track ^{8, 18}
- 3 stick lengths to better meet patient needs

SPECIFICATIONS

Article Code	Length (mm)
BIOHOLE-KIT3	3
BIOHOLE-KIT	5
BIOHOLE-KIT8	8

Please contact your local office for order quantities and availability.







BIOHOLE™ SCAB REMOVER

SAFE AND EASY TOOL TO REMOVE THE SCAB FOR THE BUTTONHOLE TECHNIQUE

The BioHole scab remover is intended to be used with the buttonhole technique to remove the scab formed at the entrance of the tunnel tracks.

BIOHOLE SCAB REMOVER FEATURES

- Excellent grip
- Included with the BioHole needles or available as a separate unit in an individual sterile package

SPECIFICATIONS

Article Code

SCAB-REMOVER-GT

Please contact your local office for order quantities and availability.





ON-OFF KIT FEATURES

- ON-OFF kits are available in various configurations, suitable for fistula and catheter treatments
- Kits facilitate the start and end of dialysis sessions for nurses
- Kits can be customized on request

SPECIFICATIONS

Article Code	ON kit	OFF kit	
00-AVF-1-EC	(4) sterile gauze (5x5 cm) (2) sterile gauze (10x10 cm) (2) microporous strips (1,25x15 cm) (2) latex exam gloves (M) (1) PE drape (38x43 cm)	(4) sterile gauze (5x5 cm) (1) latex exam glove (M) (2) Medispo bandage (30x72 mm) (1) PE drape (38x43 cm)	
00-CAT-1-EC	(4) sterile gauze (5x5 cm) (2) sterile gauze (10x10 cm) (2) latex exam glove (M) (1) PE drape (38x43 cm)	(4) sterile gauze (5x5 cm) (2) latex exam glove (M) (1) PE drape (38x43 cm) (1) sterile gauze (10x10 cm)	
00-EASY-F-ETR	(2) Nitrile Gloves (M) (4) Nonwoven swab (7,5x7,5 cm) (1) Dressing (8x10 cm) (1) Operation Drape (wrapped) (30x40 cm)	(2) Nitrite Gloves (M) (4) Nonwoven swab (wrapped) (7,5x7,5 cm) (2) Heparin cap (1) Catheter Pouch (wrapped) (7x20 cm)	
00-EASY-HD-ETR	(1) plain drape (40x50 cm) (8) plasters (2,5x15 cm) (2) alcohol swab (6 x 6 cm)	(4) non-woven swabs (7,5x7,5 cm) (2) fistula pressure bandage (38x72 cm)	
00-HD-PT	(6) non-woven swabs (7,5x7,5 cm) (8) adhesive strip (2x13 cm) (1) drape (40 x 50 cm)	(6) non-woven swab (7,5 x 7,5 cm) (2) adhesive dressing (3,1 x 7,2 cm)	
00-KIT-1-TN	(1) Hydrophilic / hydrophobic medical sheet (40 x 45 cm) (2) pairs of latex gloves (size M) (15) medical swabs (10 x 10 cm), 4-ply (1) tourniquet (8) adhesive strips (1,5 x 17,5 cm) (1) 10 ml syringe with hypodermic needle (22 G, 38 mm) (2) 5 ml NaCl vials (2) face masks	(1) Hydrophilic / hydrophobic medical sheet (40 x 45 cm) (2) pairs of latex gloves (size M) (1) face mask (10) medical swabs (10 x 10 cm), 4-ply (2) Pushban Extra Large (30 x 72 mm) (2) 10 ml syringe with hypodermic needle (22 G, 38 mm)	
OO-MG1-ETN	[1] Hydrophilic / hydrophobic medical sheet (40 x 45 cm) (2) pairs of latex gloves (size M) (2) medical swabs (10 x 10 cm), 4-ply (3) medical swabs (5 x 5 cm), 8-ply (2) adhesive strips (1,5 x 17,5 cm) (2) 2 ml syringes with hypodermic needle (23 G, 32 mm) (1) 20 ml syringe with hypodermic needle (21 G, 38 mm) (1) 5 ml syringe with hypodermic needle (22 G, 38 mm) (4) 5 ml NaCl vials or (2) 10 ml NaCl vials (2) hypodermic needles (16 G, 40 mm)	(1) pair of latex gloves (size M) (3) medical swabs 5 x 5 cm, 8-ply (2) Pushban Extra Large (30 x 72 mm) needle (23 G, 32 mm) needle (21 G, 38 mm) eedle (22 G, 38 mm) l vials	
00-HDSB-PT 00-HDSB-TR	(6) non-woven swab 4-ply (7,5x7,5 cm) (8) plaster strips (15x2,5 cm) (1) field drape (40x50 cm)	(4) swab balls (2) hemostatic pressure bandage	



PUSHBAN bandage helps stop bleeding after removing the needle from the puncture site. A high haemostatic performance is made possible by the swelling-when-wet characteristic of a cellulose sponge that act as gauze.

PUSHBAN FEATURES

- Hemostatic action due to the swelling-when-wet of the cellulose sponge when in contact with blood, causing local pressure to the puncture site
- Simple and quick hemostatic procedure

SPECIFICATIONS

Product	Size		
	Bandage	Sponge	
PB-EXL-EJ	30x72 mm	15x20 mm	
PB-L-EJ	25x72 mm	12x15 mm	

Please contact your local office for order quantities and availability.





SAFE DERM

ADHESIVE FILM DRESSING TO SECURE INTRAVENOUS APPLICATIONS

Safe Derm is a discreet, transparent film dressing that is easily applied to cover and secure IV sites

SAFE DERM FEATURES

- Transparent film dressing used to protect and secure IV applications
- Secure fixation of the IV catheter
- Extra thin transparent dressing
- High moister permeability allows the skin to breathe under the dressing
- Discreet and easy to apply
- Hypoallergenic adhesive
- Waterproof and impermeable to bacteria and contaminants

SPECIFICATIONS

Article Code	Dimensions	
NSD30-0507-EJ	50 x 70 mm	
NSD30-0607-EJ	60 x 70 mm	
NSD30-0812-EJ	80 x 120 mm	
NSD30-1015-EJ	100 x 150 mm	
NSD30-1225-EJ	120 x 250 mm	

Please contact your local office for order quantities and availability.





SAFE FIX IV / IVN

ADHESIVE FILM DRESSING TO SECURE INTRAVENOUS APPLICATIONS

Safe Fix IV or IVN is an easy to apply transparent film dressing. They are specifically designed to secure a catheter into place, made possible by the indentation and support tapes.

The dressing is applied after catheter insertion and comes in both woven (IV) and non-woven (IVN) polyester.

SAFE FIX IV / IVN FEATURES

- Secure fixation of the IV catheter
- Extra thin transparent dressing
- High moister permeability allows the skin to breathe under the dressing
- Discreet and easy to apply
- Hypoallergenic adhesive
- Waterproof and impermeable to bacteria and contaminants

SPECIFICATIONS

Article Code	Dimensions
NSF-IVN-0606-EJ	60 x 60 mm
NSF-IVN-0710-EJ	70 x 100 mm
NSF-IVN-1012-EJ	100 x 120 mm
NSF-IV-0710-EJ	70 x 100 mm

Please contact your local office for order quantities and availability.





Improved life expectancy of the vascular access

Vascular access is considered the Achilles heel of hemodialysis. Following the advice of the NKF KDOQITM, a surveillance to prevent and detect the progression of stenosis or thrombosis is recommended at least once a month ²

D.med NephroFlow permits the needed surveillance by using ultrasound dilution technology, a non-invasive access flow monitoring. Safe, quick, and accurate, the device indicates the actual blood flow, the access recirculation, and the shunt flow of patients during hemodialysis.

Thanks to innovative engineering, the annual functional inspection of D.med NephroFlow can be done easily on-site, without the need to remove the device from its operating environment. Furthermore, our tubing database is constantly updated and can be downloaded effertlessly, when needed.



LARGE AREA TOUCH SCREEN

The high-sensitivity screen optimizes usability during treatment. Intuitive interfaces guide the user through step-by-step instructions and advice for taking measurements.



QUICK MEASUREMENT MODE

The Quick mode allows the user to take measurements without entering patient data. D.med NephroFlow is ready to measure within seconds.



BUILT-IN FAST START

It takes only a few seconds to begin taking measurements once the device is switched on. No loss of time. Immediate effectiveness.



6-MONTH TREND VIEWER

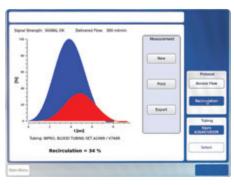
Graphical documentation of previous measurements, up to 6 months, allows for the supervision of the vascular access of the patient and encourages proactive intervention with minimal effort.

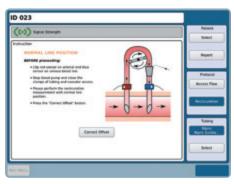


PRINT & SAVE VIA USB

In Normal mode, all data is immediately stored in the patient record. A simple USB connection allows you to export and/or print data without requiring an external PC.







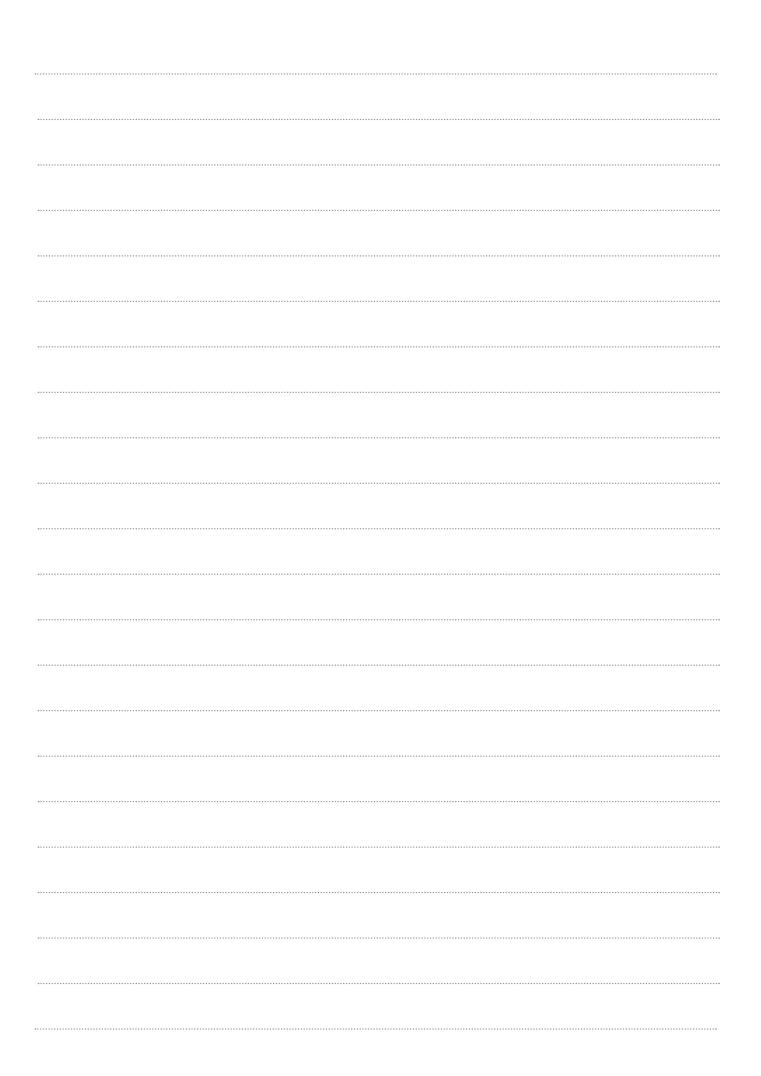
Conversion table needle gauge

Gauge (G)	Millimeter (mm)	Inch (")
14	2,108	0,083
15	1,829	0,072
16	1,651	0,065
17	1,473	0,058

Conversion table needle length

Inch (")	Millimeter (mm)
4/5	20
1	25
1 1/4	32
1 1/2	38

- 1. Needles and cannulas for arteriovenous fistula access: More options promote better Outcomes. National Kidney Foundation. 2016
- 2. NKF KDOQI Guidelines. 2006
- 3. World Health World Health Organisation (WHO) The world health report, 'Chapter 4 Selected occupational risks' http://www.who.int/whr/2002/chapter4/en/index8.html
- 4. National institute for occupational safety and health: preventing needlestick injuries in health care settings. DHHS (NIOSH) Publication No. 2000-108
- 5. Infectious complications in dialysis epidemiology and outcomes. Nature Reviews Nephrology, 8, Feb 2012
- 6. Guidance for Industry and FDA Staff: Medical Devices with Sharps Injury Prevention Features. August 2015. FDA
- 7. CANNT-VA Guidelines-2016Jan4-NP Recommendation Nr 8
- 8. Toma S. A timesaving method to create a fixed puncture route for the buttonhole technique; Nephrology dialysis and transplantation. 2003
- 9. Sukthinthai N. Buttonhole technique better than area puncture technique on hemostasis and pain associated with needle cannulation; J. Med. Assoc. Thai. 2012
- 10. Kim MK. Clinical effects of buttonhole cannulation method on hemodialysis patients, Hemodial. Int. 2013
- 11. Twardowski Z. Different sites versus constant sites of needle insertion into arteriovenous fistula for treatment by repeated dialysis. Dial Transplant. 1979
- 12. de Castro MC. Arteriovenous fistula cannulation by buttonhole technique using dull needle; J. Bras. Nefrol. 2010
- 13. Verhallen AM. Cannulating in hemodialysis: rope-ladder or buttonhole technique?; nephrology dialysis transplantation. 2007
- 14. van Loon MM. Buttonhole needling of haemodialysis arteriovenous fistulae result in less complications and interventions compared to the rope-ladder technique; Nephro Dial Transplant. 2010
- 15. Parisotto MT, et al. Cannulation technique influences arteriovenous fistula and graft survival. Kidney Int. 2014
- 16. Council Directive 2010/32/EU Prevention from sharp injuries in the hospital and healthcare sector.
- 17. Healthcare-associated infections: prevention and control in primary and community care. Clinical guideline. Last updated: February 2017
- 18. Marticorena RM. Use of the BioHole device for the creation of tunnel tracks for buttonhole cannulation of fistula for hemodialysis; Hemodial Int. 2011





Nipro Renal Care is part of Nipro Corporation Japan, a leading global healthcare company established in 1954. With over 27,000 employees worldwide, Nipro serves the Medical Device, Pharmaceutical, and Pharmaceutical Packaging industries.

Nipro Renal Care is a global market leader with over 5 decades providing renal solutions for dialysis and dialysis-related treatment. We specialize in developing dialysis machines, water treatment systems, and a comprehensive portfolio of disposable medical equipment.

In order to address the needs of patients, healthcare professionals, and procurement managers alike, Nipro Renal Care is driven by innovation and patient safety to offer the highest quality products that optimize time, effort, and costs.

BECAUSE EVERY LIFE DESERVES AFFORDABLE CARE





Nipro Medical Europe: European Headquarters, Blokhuisstraat 42, 2800 Mechelen, Belgium T: +32 (0)15 263 500 | F: +32 (0)15 263 510 | medical@nipro-group.com | www.nipro-group.com

Please contact your local representative for more information

NIPRO MEDICAL AUSTRIA GMBH:

Divischgasse 4, 1210 Wien, AUSTRIA | T: +43 1 532 23 14 | F: +43 1 532 23 14 89

NIPRO EUROPE NV - EGYPT :

Nile City Towers 22nd Floor North Tower Nile City Towers Cornich Fl Nile 11624 Ramelt Beaulac Cairo, EGYPT

NIPRO EUROPE - FRANCE :

Biopôle Clermont-Limagne, 63360 Saint Beauzire, FRANCE | T: +33 (0)473 33 41 00 | F: +33 (0)473 33 41 00

NIPRO MEDICAL GERMANY GMBH:

Kokkolastrasse 5, 40882 Ratingen, GERMANY | T: +49 (0) 2102 564 60 81 | F: +49 (0) 2102 564 60 90 NIPRO FIIROPE - ITALY -

Centro Direzionale Milanofiori, Strada 1 - Palazzo F/1, 20090 Assago (Milano), ITALY | T: +39 (0)2 57 50 00 57 | F: +39 (0)2 57 51 81 11

NIPRO D.MED AG KAZAKHSTAN:

Gogol street, 39, office 1008, 050010, Almaty, KAZAKHSTAN | +7(727) 259-01-24

NIPRO EUROPE - NETHERLANDS :

Verlengde Poolseweg 16, 4818 CL Breda, NETHERLANDS | T: +31 (0)76 524 50 99 | F: +31 (0)76 524 46 66 NIPRO D.MED NIGERIA LTD. :

5 Omowunmi Street, Oke-Afa, Isolo, Lagos, NIGERIA NIPRO EUROPE - POLAND:

UL. Panska 73, 00-834 Warszawa, POLAND | T: +48 (0)22 31 47 155 | F: +48 (0)22 31 47 152

NIPRO EUROPE NV - PORTUGAL : Avd. Da Liberdade 249. 1° Andar. 1205-143 Lisboa. PORTUGAL

NIPRO EUROPE - RUSSIA :

12 Krasnopresnenskaya Nab., Office 1407, entrance 6, 123610 Moscow, RUSSIA | T: +7 (0)495 258 1364 | T: +7 (0)495 258 1365 NIPRO SENEGAL S.U.A.R.L. :

27 Avenue Georges Pompidou, Dakar, SENEGAL

NIPRO MEDICAL D.O.O. BEOGRAD:

Bastovanska 68a, 11000 Belgrade, SERBIA | T: +381 (0)11 75 15 578

NIPRO MEDICAL SOUTH AFRICA (PTY) LTD:

Unit 2, 4B Dwyka Street, Stikland Industria, Cape Town, 7530, SOUTH AFRICA | T: + 27 21 949-2635 | F: +27 21 949-2397 226 Market Str, Fairland, Randburg, Johannesburg, 2170, SOUTH AFRICA | T: + 27 11 431 1114 / 26 | F: +27 11 431 1115

NIPRO EUROPE - SPAIN:

Poligono Los Frailes n° 93 y 94, Daganzo, 28814 Madrid, SPAIN | T: +34 (0)91 884 5531 | F: +34 (0)91 878 2840 NIPRO D.MED SCHWEIZ GMBH:

Kantonsstrasse 77, 8807 Freienbach, SWITZERLAND | T: +41 (0)55 410 40 44 | F: +41 (0)55 410 40 43 NIPRO D.MED SAGLIK HIZMETLERI TIC. LTD. STI. :

Aziziye Mah.Pilot Sok.17/ 6, Çankaya-ANKARA, TURKEY | T: +90 (0)312 442 21 12 | F: +90 (0)312 442 21 92 NIPRO MEDICAL UK LTD. :

25 Barnes Wallis Road, Segensworth East, Fareham Hampshire PO15 5TT, UNITED KINGDOM | T: +44 148 985 48 30