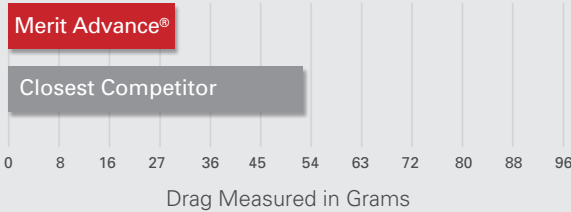
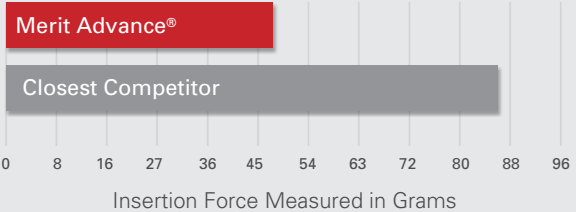


Merit's Advance® Needle was specifically designed to outperform every needle on the market by simultaneously delivering superior sharpness and tactile feel for the clinician. Additional features include Merit's proprietary coated cannula with a unique bevel grind angle and an ergonomic hub with pad printed bevel indicator. During R&D of this product Merit tested the Advance Needle against multiple competitors, here are the test results comparing the Advance Needle to the closest performing competitor needle on the market.

46%
LESS DRAG



47%
SHARPER (less force required)



Polycarbonate hub with pad printed indicator



18 Gauge Needle,
Thin Wall, 7.0cm Length
Echo Enhanced

AD18T71W-EP

Coated stainless steel cannula

Echo enhanced tip for improved visibility during imaging



Propriety bevel angle reducing insertion force

18 Gauge Merit Advance® Angiographic Needles

Hub: Polycarbonate
Cannula/Obturator: Stainless Steel



18 Gauge Needle,
Thin Wall, 5.1cm Length

AD18T51WP



18 Gauge Needle,
Thin Wall, 7.0cm Length

AD18T71WP



18 Gauge Needle,
Thin Wall, 7.0cm Length
Echo Enhanced

AD18T71W-EP



18 Gauge Needle,
Thin Wall, 7.0cm Length
*Transparent Hub

AD18T71WTP



18 Gauge Needle,
Normal Wall,
9.0cm Length

AD18N91WP



18 Gauge Needle,
Thin Wall, 5.0cm Length
with Seldinger Shield

AD18T51WSP



18 Gauge Needle,
Thin Wall, 7.0cm Length
with Courmand Shield

AD18T71WCP



18 Gauge Needle,
Thin Wall, 7.0cm Length
with Seldinger Shield

AD18T71WSP

PERCUTANEOUS
ACCESS

19 Gauge Merit Advance® Angiographic Needles

Hub: Polycarbonate
Cannula/Obturator: Stainless Steel



19 Gauge Needle,
Ultra Thin Wall,
4.0cm Length with
Courmand Shield

AD19U41WCP



19 Gauge Needle,
Ultra Thin Wall,
4.0cm Length

AD19U41WP



19 Gauge Needle,
Ultra Thin Wall,
5.1cm Length

AD19U51WP



19 Gauge Needle,
Thin Wall,
5.0cm Length with
Seldinger Shield

AD19U71WSP

20 Gauge Merit Advance® Angiographic Needles

Hub: Polycarbonate
Cannula/Obturator: Stainless Steel



19 Gauge Needle,
Ultra Thin Wall,
7.0cm Length with
Courmand Shield

AD19U71WCP



19 Gauge Needle,
Ultra Thin Wall,
7.0cm Length

AD19U71WP



20 Gauge Needle,
Thin Wall,
4.0cm Length

AD20T41WP



20 Gauge Needle,
Thin Wall,
7.0cm Length

AD20T71WP

PERCUTANEOUS
ACCESS

21 Gauge Merit Advance® Angiographic Needles

Hub: Polycarbonate
Cannula/Obturator: Stainless Steel



21 Gauge, Thin Wall,
2.5cm Length

AD21T21WP



21 Gauge, Thin Wall,
4.0cm Length

AD21T41WCP



21 Gauge, Thin Wall,
4.0cm Length

AD21T41WP



21 Gauge, Thin Wall,
7.0cm Length

AD21T71WP



21 Gauge, Thin Wall,
7.0cm Length Echo Tip

AD21T71W-EP



21 Gauge, Thin Wall,
9.0cm Length Echo Tip

AD21T91W-EP



21 Gauge Curved Needle,
9.0cm Length

AD21T91RP



21 Gauge Curved Needle,
9.0cm Length with Echo Tip
Echo Enhanced Coaxial

AD21T91REP



21 Gauge Curved Needle,
9.0cm Length with Echo Tip

AD21T91RE

PERCUTANEOUS
ACCESS

22 Gauge Merit Advance® Angiographic Needles

Hub: Polycarbonate
Cannula/Obturator: Stainless Steel



22 Gauge, Thin Wall,
6.0cm Length, One-Wall

AD22T61WP

Standard Needle



Gauge: 18G XTW
Length: 2.71"

FND-001-00

Merit Advance® Angiographic Safety Needles

Hub: Polycarbonate
Cannula/Obturator: Stainless Steel



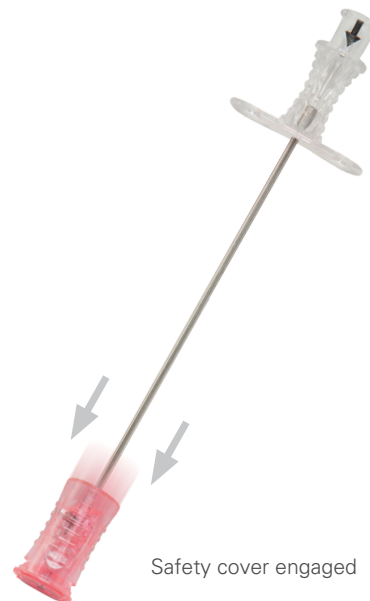
18 Gauge, 7.0cm Length,
With out Wings,
Guide wire .038"

SL18T71WP



18 Gauge, 7.0cm Length,
With Wings,
Guide wire .038"

SL18T71WSP



Safety cover engaged

ONE-WALL STYLE NEEDLE

Catalog Number	Gauge	Wall Thickness	Accepts Guide Wire	Length (cm)	Length (inches)	Finish
AD18T51WP	18	Thin	.038" (0.97mm)	5.0cm	2"	Smooth
AD18T71WP	18	Thin	.038" (0.97mm)	7.0cm	2 3/4"	Smooth
AD18T71W-EP	18	Thin	.038" (0.97mm)	7.0cm	2 3/4"	Echo
AD18T71WTP	18	Thin	.038" (0.97mm)	7.0cm	2 3/4"	Smooth
AD18N91WP	18	Normal	.038" (0.97mm)	9.0cm	3 1/2"	Smooth
AD19U41WP	19	Ultra	.035" (0.89mm)	4.0cm	1 1/2"	Smooth
AD19U51WP	19	Ultra	.035" (0.89mm)	5.0cm	2"	Smooth
AD19U71WP	19	Ultra	.035" (0.89mm)	7.0cm	2 3/4"	Smooth
AD19U71W-EP	19	Ultra	.035" (0.89mm)	7.0cm	2 3/4"	Echo
AD20T41WP	20	Thin	.025" (0.64mm)	4.0cm	1 1/2"	Smooth
AD20T41W-EP	20	Thin	.025" (0.64mm)	4.0cm	1 1/2"	Echo
AD20T71WP	20	Thin	.025" (0.64mm)	7.0cm	2 3/4"	Smooth
AD20T71W-EP	20	Thin	.025" (0.64mm)	7.0cm	2 3/4"	Echo
AD21T21WP	21	Thin	.021" (0.53mm)	2.5cm	1"	Smooth
AD21T41WP	21	Thin	.021" (0.53mm)	4.0cm	1 1/2"	Smooth
AD21T41W-EP	21	Thin	.021" (0.53mm)	4.0cm	1 1/2"	Echo
AD21T71WP	21	Thin	.021" (0.53mm)	7.0cm	2 3/4"	Smooth
AD21T71W-EP	21	Thin	.021" (0.53mm)	7.0cm	2 3/4"	Echo
AD21T91WP	21	Thin	.021" (0.53mm)	9.0cm	3 1/2"	Smooth
AD21T91W-EP	21	Thin	.021" (0.53mm)	9.0cm	3 1/2"	Echo
AD21T91RP	21	Thin	.021" (0.53mm)	9.0cm	3 1/2"	Smooth
AD21T91REP	21	Thin	.021" (0.53mm)	9.0cm	3 1/2"	Echo

ONE-WALL NEEDLE WITH SELDINGER SHIELD

AD18T51WSP	18	Thin	.038" (0.97mm)	5.0cm	2"	Smooth
AD18T71WSP	18	Thin	.038" (0.97mm)	7.0cm	2 3/4"	Smooth
AD19U71WSP	19	Ultra	.035" (0.89mm)	7.0cm	2 3/4"	Smooth

ONE-WALL NEEDLE WITH COURNAND SHIELD

AD18T71WCP	18	Thin	.038" (0.97mm)	7.0cm	2 3/4"	Smooth
AD19U41WCP	19	Ultra	.035" (0.89mm)	4.0cm	1 1/2"	Smooth
AD19U71WCP	19	Ultra	.035" (0.89mm)	7.0cm	2 3/4"	Smooth
AD21T41WCP	21	Thin	.021" (0.53mm)	4.0cm	1 1/2"	Smooth

PERCUTANEOUS ACCESS

Transeptal Needles and Sheath Introducers

Transeptal Needles



Catalog Number	Length	Curve Angle	Tip Gauge
FND-019-00	56cm	50° Curve	22
FND-019-01	71cm	50° Curve	21
FND-019-02	71cm	86° Curve	21
FND-019-03	89cm	50° Curve	21
FND-019-04	89cm	86° Curve	21
FND-019-05	98cm	50° Curve	21
FND-019-06	98cm	86° Curve	21