

# STERILE INFUSION THERAPY DEVICES

www.assetmedical.com

FlowArt® NeutrArt®

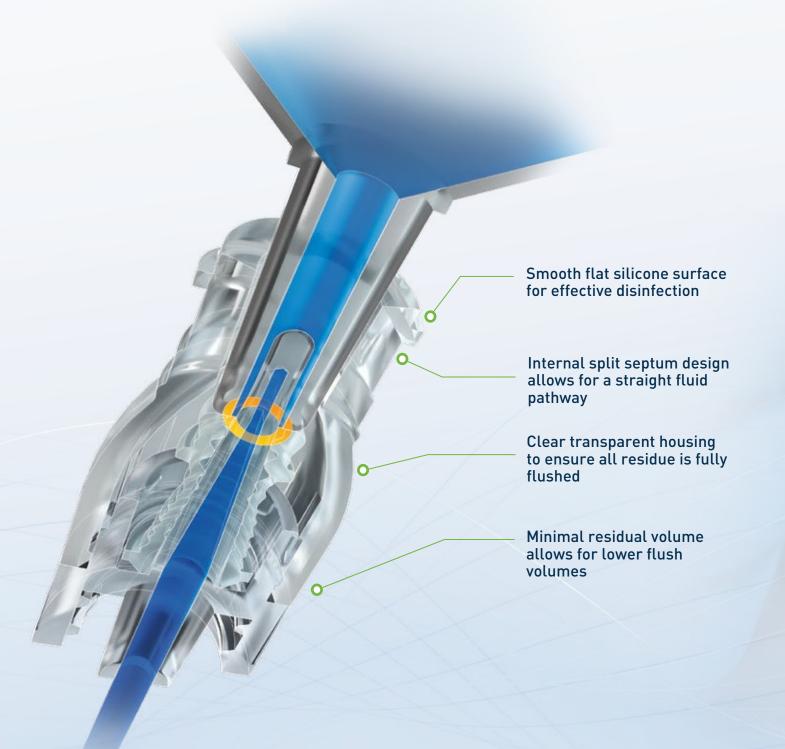




#### **Description**

NeutrArt® is a single-use, disposable connector intended for use with a vascular access device for administration of fluids during IV therapy. Designed with a transparent housing for flush visualization and a flat swabable valve surface to enhance infection prevention.

The product is a needle-free connector with an integrated silicone seal that protects the patient and healthcare staff from needlestick accidents during intravenous therapy by minimizing needle usage.



#### **Features**



7-day antimicrobial ingress study available



Compatible with TPN solutions, blood and oncology drugs



Allows multiple accesses & suitable for high-flow rate infusion



Minimal volume required for flushing



Clear housing for visualization of fluid path

Materials

Metal-free, Latex-free PVC-free

Valve Body

Copolyester

Swabable Septum

Silicone





## **Expert Opinion**

The design of the needle-free connectors helps prevent biofilm formation and fibrin adhesion, which are the preconditions for catheter-related bloodstream infections risk. These devices are used to connect catheters, administration sets, and/or syringes to deliver IV therapy.

Macklin, Denise, May 2010

Catheter Management, Seminars in Oncology Nursing, Vol 26, No 2 (May), 2010: pp 113-120.

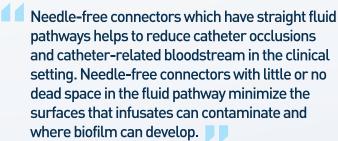
#### **Clear Transparent Housing**

Flushing needle-free connectors is critically important because it is the method by which blood or other contaminating infusates is removed from the needle-free connectors. Therefore, the ability to visualize the internal surfaces of the needle-free connector helps the clinician determine if flushing of the needle-free connector is complete.

Jarvis, William R., July 29, 2010

Choosing the Best Design for Intravenous Needleless Connectors to Prevent Bloodstream Infections, Infection Control Today.

#### Minimal Residual Volume



Macklin, Denise, May 2010

Catheter Management, Seminars in Oncology Nursing, Vol 26, No 2 (May), 2010: pp 113-120.

#### **Product Specifications**

Product Code and Description	Priming Volume	Displacement	Flow Rate	Flushing Volume	Length
	(mL)	(mL)	(mL/min)	(mL)	(cm)
A1010N NeutrArt® Neutral Needle-Free Valve	0.04	<0.01 (neutral)	160 @1m water pressure	0.02	2.5

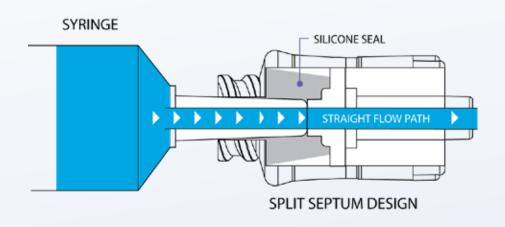
#### **Packaging Specifications**

Container Type	Height(cm)	Width(cm)	Length(cm)	Weigth(kg)	
Unit Pack (1 Unit)	10	8	5	0.027	
Shelf Pack (100 Units)	23	20	16	0.8	
Case Pack (1000 Units)	25	43	84	10	

# **Split Septum Needle-Free Valves**



A sterile, closed connection for increased safety and improved patient outcomes.



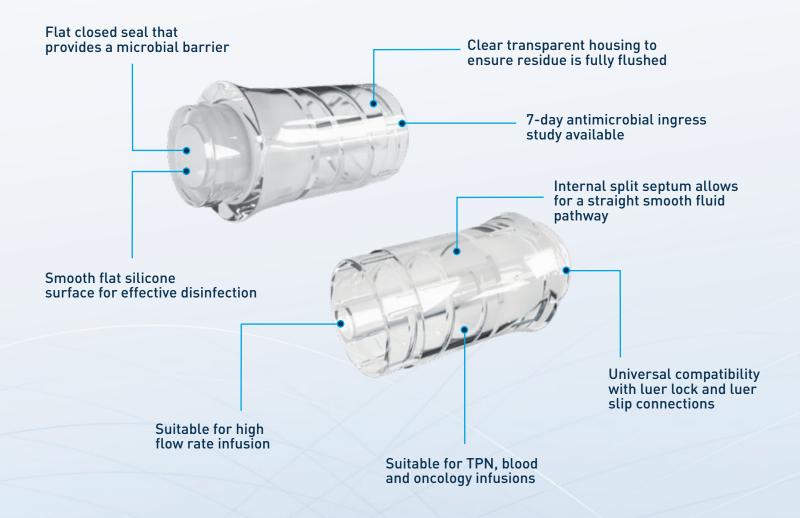
Size	2.5 cm x 1.27 cm	Flow Rate	Up to 312 mL/min
Weight	1.64 grams	Conforms to	ISO 80369-7





## **Total IV Device Clarity**

FlowArt® is a needle-free valve that has a fully transparent clear housing with an integrated silicone seal and internal fluid pathway, that protects the patient and nursing staff from exposures.



# Meeting the latest international IV recommendations

- Transparent, needless connector that is opaque, for enhanced visualisation during flushing so that all blood and infusates are cleared
- Fully transparent and clear housing with an integrated, flat silicone seal and split septum
- Internal smooth pathway, providing a microbial barrier
- Multiple access 600 over 7 days

- Suitable for pressure infusers
- Compatible with CT scan use at 400 PSI
- Compatible with TPN, lipids, blood and oncology
- Compatible with all emergency glass syringes and excellent connectivity with luer slip and luer lock syringes
- Comforms to ISO 80369-7

# **Expert Opinion**

...Observe if the internal mechanisms are simple or complex...

Jarvis, 2013, infectioncontroltoday.com https://www.infectioncontroltoday.com/hivaids/h

https://www.infectioncontroltoday.com/hivaids/hiv-cure-research-team-refutes-major-recent-results-how-identify-hiv-persistence

...Taking these features into consideration, a recent survey of expert clinicians found that a smooth external surface, no gap around septum seal and clear housing were among the most important features of needleless connectors...

Jarvis, 2013, infectioncontroltoday.com https://www.infectioncontroltoday.com/hivaids/h iv-cure-research-team-refutes-major-recent-re sults-how-identify-hiv-persistence The ability to visualise the internal surfaces of the needleless connector helps the clinician determine if flushing of the needleless connector is complete. A transparent needleless connector is preferable to one that is opaque.

Jarvis, 2010

Straight fluid pathways have been shown to reduce catheter occlusions and CR-BSI in the clinical setting.

...opaque or coloured external housing makes it hard to see any residual blood or particulate matter... clear external housing makes such visualisation possible.

Seminars in Oncology Nursing; Denise Macklin, BSN, RNC https://www.sciencedirect.com/science/article/pii/S0749208110000082

When needleless system are used, a split septum valve may be preferred over some mechanical valves due to increased risk of infection with mechanical valves.

CDC Recommendations (Guidelines for the Prevention of Intravascular Catheter-Related Infections (2011) https://www.cdc.gov/infectioncontrol/guidelines/bsi/background/prevention-strategies.html

NeutrArt® Neutral Needle-Free Valve	Product Code	Product Image	Product Description	Units per box	Priming Volume (ml)	Length (cm)	Flow Rate (ml/min)	
AU1010N NeutrArt® Needle-free Valve Neutral with Extension Line 100 0.19 10 70 A2010N NeutrArt® Double Lumen Needle-free Valve Neutral 100 0.42 10 70 A3010N NeutrArt® Triple Lumen Needle-free Valve Neutral 100 0.57 10 70  FlowArt® Needle-free Valve  A1010 FlowArt® Needle-Free Valve Port 250 0.085 2.5 312  AU1010 FlowArt® Needle-Free Valve Neutral with Extension Line 100 0.15 8 135  A2010 FlowArt® Double Lumen Needle-Free Valve Port 100 0.35 8.5 100  A2010 FlowArt® Double Lumen Needle-Free Valve Port 100 0.35 8.5 100  A2010 FlowArt® Double Lumen Needle-Free Valve Port 100 0.40 8.5 110  A2010 FlowArt® Double Lumen Needle-Free Valve Port 100 0.40 8.5 110  A2010 FlowArt® Double Lumen Needle-Free Valve Port 100 0.40 8.5 110  A2010 FlowArt® Triple Lumen Needle-Free Valve Port, with 100 0.45 9.5 90  A3010 FlowArt® Triple Lumen Needle-Free Valve Port, with 100 0.45 9.5 95  A3010 FlowArt® Triple Lumen Needle-Free Valve Port, with 100 0.75 9.5 95  A3010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ASS010 FlowArt® Needle-Free Connector with Three Way 100 0.080 10.5 - 0.000  ASS010 FlowArt® Needle-Free Valve For Bag Access Valve 100 0.080 10.5 - 0.000  ASS010 FlowArt® Valve For Bag Access Valve 100 0.080 10.5 - 0.000  ASS010 FlowArt® Valve For Bag Access Valve 100 0.080 10.5 - 0.000  ASS010 FlowArt® Valve For Bag Access Valve 100 0.080 10.5 - 0.000  ASS010 FlowArt® Valve For Vial Access, 31 mm 200 0.06 3 - 0.000  ASS010 FlowArt® Valve For Vial Access, 20 mm 100 0.080 10.5 - 0.000  ASS010 FlowArt® Valve For Vial Access, 32 mm 100 0.06 3 - 0.000  ASS010 FlowArt® Valve For Vial Access, 31 mm 100 0.000 11 5.5 - 0.000  ASS010 FlowArt® Valve For Vial	NeutrArt® Neutral Needle-free Valve							
A2010N Neutrant* Double Lumen Needle-free Valve Neutral 100 0.42 10 70 A3010N NeutrArt* Double Lumen Needle-free Valve Neutral 100 0.57 10 70 FlowArt* Needle-free Valve A1010 FlowArt* Needle-Free Valve Port 250 0.085 25 312 AU1010 FlowArt* Needle-Free Valve Neutral with Extension Line 100 0.15 8 135 A2010 FlowArt* Double Lumen Needle-Free Valve Port 100 0.35 85 100 A2010V FlowArt* Double Lumen Valve with Y Connector 50 0.70 135 325 A3010 FlowArt* Double Lumen Needle-Free Valve Port 100 0.40 85 110 A2010CV FlowArt* Double Lumen Needle-Free Valve Port 100 0.40 85 110 A2010CV FlowArt* Double Lumen Needle-Free Valve Port 100 0.45 95 90 A3010CV FlowArt* Double Lumen Needle-Free Valve Port, with 100 0.45 95 90 A3010CV FlowArt* Needle-Free Connector with Three Way 100 0.085 25 312 ATU3010 FlowArt* Needle-Free Connector with Three Way 100 0.085 25 312 ATU3010 FlowArt* Needle-Free Connector with Three Way 100 0.085 25 312 ATU3010 FlowArt* Needle-Free Connector with Three Way 100 0.085 25 100 FlowArt* Needle-Free Connector with Three Way 100 0.085 105 100 FlowArt* Valve For Bag Access 100 0.45 9 - ASM5010 FlowArt* Valve For Bag Access with Check Valve 100 0.80 10.5 - ASM5010 FlowArt* Valve For Bag Access Vented 100 0.80 10.5 - ASM5010 FlowArt* Valve For Bag Access Vented 50 0.47 9 - ASM5010 FlowArt* Valve For Bag Access Vented 50 0.47 9 - AV4020 FlowArt* Valve For Bag Access, 13 mm 200 0.06 3 - AV4020 FlowArt* Valve For Valve Access, 13 mm 200 0.06 3 - AV4020 FlowArt* Valve For Valve For Valve Set with 0.2 Micron Filter 50 3.0 18 FlowArt* Valve For V	A1010N		NeutrArt® Neutral Needle-free Valve	250	0.04	2.5	160	
Neutrant* Double Lumen Needle-free Valve Neutral   100   0.57   10   70   70   70   70   70   70   7	AU1010N		NeutrArt® Needle-free Valve Neutral with Extension Line	100	0.19	10	70	
FlowArt* Needle-Free Valve Port   250   0.085   25   312	A2010N	modern Acids	NeutrArt® Double Lumen Needle-free Valve Neutral	100	0.42	10	70	
A1010 FlowArt* Needle Free Valve Port 250 0.085 2.5 312  AU1010 FlowArt* Needle-Free Valve Neutral with Extension Line 100 0.15 8 135  A2010 FlowArt* Double Lumen Needle-Free Valve Port 100 0.35 8.5 100  A2010Y FlowArt* Double Lumen Needle-Free Valve Port 100 0.35 8.5 100  A2010Y FlowArt* Double Lumen Needle-Free Valve Port 100 0.40 8.5 110  A2010CV FlowArt* Triple Lumen Needle-Free Valve Port 100 0.40 8.5 110  A2010CV FlowArt* Triple Lumen Needle-Free Valve Port, with 100 0.45 9.5 90  A3010CV FlowArt* Triple Lumen Needle-Free Valve Port, with 100 0.75 9.5 95  A3010 FlowArt* Triple Lumen Needle-Free Valve Port, with 100 0.75 9.5 95  A3010 FlowArt* Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt* Needle-Free Connector with Three Way 50 0.50 16.5 100  FlowArt* Bag and Vial Adapters  ASS010 FlowArt* Valve For Bag Access 100 0.45 9 -  ASS010 FlowArt* Valve For Bag Access, with Check Valve 100 0.80 10.5 -  ASM5010 FlowArt* Walve For Bag Access Vented 100 0.11 5.5 -  ASV5010 FlowArt* Valve For Bag Access Vented 50 0.47 9 -  AV4013 FlowArt* Valve For Bag Access Vented 50 0.47 9 -  AV4020 FlowArt* Valve For Vial Access, 13 mm 200 0.06 3 -  AV4020 FlowArt* Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valve For Vial Access, 20 mm 100 0.50 12 FlowArt* Valv	A3010N	<del></del>	NeutrArt® Triple Lumen Needle-free Valve Neutral	100	0.57	10	70	
AU1010   FlowArt® Needle-Free Valve Neutral with Extension Line   100   0.15   8   135   A2010   FlowArt® Double Lumen Needle-Free Valve Port   100   0.35   8.5   100   A2010Y   FlowArt® Double Lumen Needle-Free Valve Port   100   0.40   8.5   110   A2010CV   FlowArt® Triple Lumen Needle-Free Valve Port   100   0.40   8.5   110   A2010CV   FlowArt® Double Lumen Needle-Free Valve Port, with   100   0.45   9.5   90   A3010CV   FlowArt® Triple Lumen Needle-Free Valve Port, with   100   0.75   9.5   95   AT3010   FlowArt® Triple Lumen Needle-Free Valve Port, with   100   0.75   9.5   95   AT3010   FlowArt® Needle-Free Connector with Three Way   100   0.085   2.5   312   ATU3010   FlowArt® Needle-Free Connector with Three Way   50   0.50   16.5   100    FlowArt® Bag and Vial Adapters  ASS010   FlowArt® Valve For Bag Access   100   0.45   9   -	FlowArt® I	Needle-free Valv	e					
A2010   FlowArt* Double Lumen Needle-Free Valve Port   100   0.35   8.5   100   A2010Y   FlowArt* Double Lumen Valve with Y Connector   50   0.70   13.5   32.5   A3010   FlowArt* Triple Lumen Needle-Free Valve Port   100   0.40   8.5   110   A2010CV   FlowArt* Double Lumen Needle-Free Valve Port, with   100   0.45   9.5   90   A3010CV   FlowArt* Triple Lumen Needle-Free Valve Port, with   100   0.75   9.5   95   A73010   FlowArt* Needle-Free Connector with Three Way   100   0.085   2.5   312   ATU3010   FlowArt* Needle-Free Connector with Three Way   50   0.50   16.5   100    FlowArt* Bag and Vial Adapters  ASS010   FlowArt* Valve For Bag Access, with Check Valve   100   0.45   9   -	A1010		FlowArt® Needle Free Valve Port	250	0.085	2.5	312	
A2010Y FlowArt® Double Lumen Valve with Y Connector 50 0.70 13.5 325  A3010 FlowArt® Triple Lumen Needle-Free Valve Port 100 0.40 8.5 110  A2010CV FlowArt® Double Lumen Needle-Free Valve Port, with 100 0.45 9.5 90  A3010CV FlowArt® Triple Lumen Needle-Free Valve Port, with 100 0.75 9.5 95  A3010CV FlowArt® Triple Lumen Needle-Free Valve Port, with 100 0.75 9.5 95  A73010 FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312  ATU3010 FlowArt® Needle-Free Connector with Three Way 50 0.50 16.5 100  FlowArt® Read and Vial Adapters  AS5010 FlowArt® Valve For Bag Access 100 0.45 9 -  AS5011 FlowArt® Valve For Bag Access, with Check Valve 100 0.80 10.5 -  ASM5010 FlowArt® Mini Spike with Needleless Valve 100 0.11 5.5 -  ASV5010 FlowArt® Valve For Bag Access Vented 50 0.47 9 -  AV4013 FlowArt® Valve For Bag Access Vented 50 0.47 9 -  AV4013 FlowArt® Valve For Vial Access, 13 mm 200 0.06 3 -  AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt® I V Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18 \$\frac{V. L 200}{V. L 240}\$  AF6012B FlowArt® Needle-Free Valve Set with 12 Micron Baby 100 0.50 12 \$\frac{V. L 35}{V. L 240}\$  AF6112 FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185  AF6202 FlowArt® Single Set with 1.2 Micron Filter 50 2.40 14 185	AU1010		FlowArt® Needle-Free Valve Neutral with Extension Line	100	0.15	8	135	
A3010	A2010	**************************************	FlowArt® Double Lumen Needle-Free Valve Port	100	0.35	8.5	100	
A2010CV   FlowArt® Double Lumen Needle-Free Valve Port, with 100 0.45 9.5 9.0   A3010CV   FlowArt® Triple Lumen Needle-Free Valve Port, with 100 0.75 9.5 9.5 9.5   AT3010   FlowArt® Needle-Free Connector with Three Way 100 0.085 2.5 312   ATU3010   FlowArt® Needle-Free Connector with Three Way 50 0.50 16.5 100   FlowArt® Bag and Vial Adapters    ASS010   FlowArt® Valve For Bag Access 100 0.45 9 -   ASS011   FlowArt® Valve For Bag Access, with Check Valve 100 0.80 10.5 -   ASM5010   FlowArt® Mini Spike with Needleless Valve 100 0.11 5.5 -   ASV5010   FlowArt® Valve For Bag Access Vented 50 0.47 9 -   AV4013   FlowArt® Valve For Val Access, 13 mm 200 0.06 3 -   AV4020   FlowArt® Valve For Val Access, 20 mm 100 0.08 3 -   FlowArt® Valve For Val Access, 20 mm 100 0.08 18   F. L S00   AF6002   FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18   F. L S00   AF6012B   FlowArt® Needle-Free Valve Set with 12 Micron Baby 100 0.50 12   F. L S00   AF6102   FlowArt® Single Set with 0.2 Micron Filter 50 2.40 14 50   AF6102   FlowArt® Single Set with 1.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185   AF6202   FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 14 185   AF6202	A2010Y		FlowArt® Double Lumen Valve with Y Connector	50	0.70	13.5	325	
A3010CV   FlowArt* Triple Lumen Needle-Free Valve Port, with   100   0.75   9.5   95    AT3010   FlowArt* Needle-Free Connector with Three Way   100   0.085   2.5   312    ATU3010   FlowArt* Needle-Free Connector with Three Way   50   0.50   16.5   100    FlowArt* Needle-Free Connector with Three Way   50   0.50   16.5   100    FlowArt* Bag and Vial Adapters  AS5010   FlowArt* Valve For Bag Access   100   0.45   9   -	A3010		FlowArt® Triple Lumen Needle-Free Valve Port	100	0.40	8.5	110	
ATJO10   FlowArt® Needle-Free Connector with Three Way   100   0.085   2.5   312    ATJO10   FlowArt® Needle-Free Connector with Three Way   50   0.50   16.5   100    FlowArt® Bag and Vial Adapters   100   0.45   9   -	A2010CV	modern Artific	FlowArt® Double Lumen Needle-Free Valve Port, with Check Valve	100	0.45	9.5	90	
AT3010 Stopcock Needle-Free Connector With Three Way 50 0.85 25 312  ATU3010 FlowArt® Needle-Free Connector With Three Way 50 0.50 16.5 100  FlowArt® Bag and Vial Adapters  AS5010 FlowArt® Valve For Bag Access 100 0.45 9 -  AS5011 FlowArt® Valve For Bag Access, with Check Valve 100 0.80 10.5 -  ASM5010 FlowArt® Mini Spike with Needleless Valve 100 0.11 5.5 -  ASV5010 FlowArt® Valve For Bag Access Vented 50 0.47 9 -  AV4013 FlowArt® Valve For Vial Access, 13 mm 200 0.06 3 -  AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt® IV Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18 F. V. L. 280  AF6012B FlowArt® Needle-Free Valve Set with 1.2 Micron Baby 100 0.50 12 F. L. 355  AF6102 FlowArt® Single Set with 0.2 Micron Filter 50 2.40 14 50  AF6112 FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185	A3010CV		FlowArt® Triple Lumen Needle-Free Valve Port, with Check Valve	100	0.75	9.5	95	
FlowArt® Bag and Vial Adapters         Stopcock         100         0.45         9         -           AS5010         FlowArt® Valve For Bag Access         100         0.45         9         -           AS5011         FlowArt® Valve For Bag Access, with Check Valve         100         0.80         10.5         -           ASM5010         FlowArt® Mini Spike with Needleless Valve         100         0.11         5.5         -           ASV5010         FlowArt® Valve For Bag Access Vented         50         0.47         9         -           AV4013         FlowArt® Valve For Vial Access, 13 mm         200         0.06         3         -           AV4020         FlowArt® Valve For Vial Access, 20 mm         100         0.08         3         -           FlowArt® V Filters         FlowArt® Needle-Free Valve Set with 0.2 Micron Filter         50         3.0         18         \$\frac{F, L 50}{V. L 240}\$           AF6012B         FlowArt® Needle-Free Valve Set with 1.2 Micron Baby         100         0.50         12         \$\frac{F, L 35}{V. L 95}\$           AF6112         FlowArt® Single Set with 0.2 Micron Filter         50         2.40         14         50           AF6202         FlowArt® Dual Port Set with 0.2 Micron Filter         50         180         2	AT3010	ED T ==	FlowArt® Needle-Free Connector with Three Way Stopcock	100	0.085	2.5	312	
AS5010 FlowArt® Valve For Bag Access 100 0.45 9 AS5011 FlowArt® Valve For Bag Access, with Check Valve 100 0.80 10.5 ASM5010 FlowArt® Mini Spike with Needleless Valve 100 0.11 5.5 ASV5010 FlowArt® Valve For Bag Access Vented 50 0.47 9 AV4013 FlowArt® Valve For Vial Access, 13 mm 200 0.06 3 AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 FlowArt® IV Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18	ATU3010		FlowArt® Needle-Free Connector with Three Way Stopcock	50	0.50	16.5	100	
AS5011 FlowArt® Valve For Bag Access, with Check Valve 100 0.80 10.5 - ASM5010 FlowArt® Mini Spike with Needleless Valve 100 0.11 5.5 - ASV5010 FlowArt® Valve For Bag Access Vented 50 0.47 9 - AV4013 FlowArt® Valve For Vial Access, 13 mm 200 0.06 3 - AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 - FlowArt® IV Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18 F. L 50 AF6012B FlowArt® Needle-Free Valve Set with 1.2 Micron Baby 100 0.50 12 F. L 35 FlowArt® Single Set with 0.2 Micron Filter 50 2.40 14 50  AF6112 FlowArt® Single Set with 1.2 Micron Filter 50 2.40 14 185  AF6202 FlowArt® Dual Port Set with 0.2 Micron Filter 50 2.40 14 185	FlowArt® I	Bag and Vial Ada	pters					
ASM5010 FlowArt® Mini Spike with Needleless Valve 100 0.11 5.5 -  ASV5010 FlowArt® Valve For Bag Access Vented 50 0.47 9 -  AV4013 FlowArt® Valve For Vial Access, 13 mm 200 0.06 3 -  AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt® IV Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18 F. L. 50 V. L. 240  AF6012B FlowArt® Needle-Free Valve Set with 1.2 Micron Baby 100 0.50 12 F. L. 35 V. L. 95  AF6102 FlowArt® Single Set with 0.2 Micron Filter 50 2.40 14 50  AF6112 FlowArt® Single Set with 1.2 Micron Filter 50 2.40 14 185  AF6202 FlowArt® Dual Port Set with 0.2 Micron Filter 50 1.80 20 24.5	AS5010		FlowArt® Valve For Bag Access	100	0.45	9	-	
ASV5010 FlowArt® Valve For Bag Access Vented 50 0.47 9 -  AV4013 FlowArt® Valve For Vial Access, 13 mm 200 0.06 3 -  AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt® IV Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18 F. L 50 V. L 240 Filter 50 50 50 50 50 50 50 50 50 50 50 50 50	AS5011		FlowArt® Valve For Bag Access, with Check Valve	100	0.80	10.5	-	
AV4013	ASM5010		FlowArt® Mini Spike with Needleless Valve	100	0.11	5.5	-	
AV4020 FlowArt® Valve For Vial Access, 20 mm 100 0.08 3 -  FlowArt® IV Filters  AF6002 FlowArt® Needle-Free Valve Set with 0.2 Micron Filter 50 3.0 18 F. L. 50 V. L. 240  AF6012B FlowArt® Needle-Free Valve Set with 1.2 Micron Baby 100 0.50 12 F. L. 35 V. L. 95  AF6102 FlowArt® Single Set with 0.2 Micron Filter 50 2.40 14 50  AF6112 FlowArt® Single Set with 1.2 Micron Filter 50 2.40 14 185  AF6202 FlowArt® Dual Port Set with 0.2 Micron Filter 50 1.80 20 24.5	ASV5010		FlowArt® Valve For Bag Access Vented	50	0.47	9	-	
FlowArt® IV Filters         AF6002       FlowArt® Needle-Free Valve Set with 0.2 Micron Filter       50       3.0       18       F. L. 50 V. L. 240         AF6012B       FlowArt® Needle-Free Valve Set with 1.2 Micron Baby Filter       100       0.50       12       F. L. 35 V. L. 95         AF6102       FlowArt® Single Set with 0.2 Micron Filter       50       2.40       14       50         AF6112       FlowArt® Single Set with 1.2 Micron Filter       50       2.40       14       185         AF6202       FlowArt® Dual Port Set with 0.2 Micron Filter       50       180       20       24.5	AV4013	440	FlowArt® Valve For Vial Access, 13 mm	200	0.06	3	-	
AF6002       FlowArt® Needle-Free Valve Set with 0.2 Micron Filter       50       3.0       18       F. L. 50 V. L. 240         AF6012B       FlowArt® Needle-Free Valve Set with 1.2 Micron Baby Filter       100       0.50       12       F. L. 35 V. L. 35 V. L. 95         AF6102       FlowArt® Single Set with 0.2 Micron Filter       50       2.40       14       50         AF6112       FlowArt® Single Set with 1.2 Micron Filter       50       2.40       14       185         AF6202       FlowArt® Dual Port Set with 0.2 Micron Filter       50       1.80       20       24.5	AV4020	6	FlowArt® Valve For Vial Access, 20 mm	100	0.08	3	-	
AF6012B       FlowArt® Needle-Free Valve Set with 1.2 Micron Baby       100       0.50       12       F. L. 35         AF6102       FlowArt® Single Set with 0.2 Micron Filter       50       2.40       14       50         AF6112       FlowArt® Single Set with 1.2 Micron Filter       50       2.40       14       185         AF6202       FlowArt® Dual Port Set with 0.2 Micron Filter       50       1.80       20       24.5	FlowArt® I	V Filters						
AF6102       FlowArt® Single Set with 0.2 Micron Filter       50       2.40       14       50         AF6112       FlowArt® Single Set with 1.2 Micron Filter       50       2.40       14       185         AF6202       FlowArt® Dual Port Set with 0.2 Micron Filter       50       1.80       20       24.5	AF6002		FlowArt® Needle-Free Valve Set with 0.2 Micron Filter	50	3.0	18	F. L. 50 V. L. 240	
AF6112 FlowArt® Single Set with 1.2 Micron Filter 50 2.40 14 185  AF6202 FlowArt® Dual Port Set with 0.2 Micron Filter 50 1.80 20 24.5	AF6012B	mon /	FlowArt® Needle-Free Valve Set with 1.2 Micron Baby Filter	100	0.50	12	F. L. 35 V. L. 95	
AF6202 FlowArt® Dual Port Set with 0.2 Micron Filter 50 1.80 20 24.5	AF6102		FlowArt® Single Set with 0.2 Micron Filter	50	2.40	14	50	
	AF6112		FlowArt® Single Set with 1.2 Micron Filter	50	2.40	14	185	
AF6212 FlowArt® Dual Port Set with 1.2 Micron Filter 50 2.50 20 90	AF6202		FlowArt® Dual Port Set with 0.2 Micron Filter	50	1.80	20	24.5	
	AF6212		FlowArt® Dual Port Set with 1.2 Micron Filter	50	2.50	20	90	

