



# Your Partner for Cardiac Catheterization



Clear Direction. > From Diagnosis to Care.

**MEDRAD®** Avanta  
Fluid Management Injection System

# 50 Years in Angiography Innovation in Your Interventional Suite

Bayer is a pioneering leader in the field of angiography and an innovator our customers rely on.

From the inception of the Heilman-Wholey injector in 1967 – to today's advancements in power injection and imaging, Bayer has consistently listened to your needs and delivered solutions that have changed healthcare.

Our uncompromising experience and expertise continue to raise the bar in innovation and performance. We're the experts you've valued for fifty years and the partner you can rely on.

# MEDRAD® Avanta Gets High Marks in Customer Satisfaction

Cardiologists, radiologists and clinicians around the globe point to our solutions as their trusted partner in ease of use, safety, and high-quality performance. Our customers endorse MEDRAD® Avanta with an overwhelming willingness to recommend and to buy it again.



Easy to operate, easy to set up syringes and disposable, easy post procedure handling.



Good performance, minimum down time, good clinical application service.



Safety and high efficiency in relation to workflow.



say MEDRAD® Avanta has good overall performance



recommend MEDRAD® Avanta



would purchase MEDRAD® Avanta again



see an advantage of MEDRAD® Avanta compared to their previous injector



rate MEDRAD® Avanta excellent or very good

# 50 Years of Innovation: Our Customers Are at the Center of Everything We Do

## Optimize Coronary Imaging

- › Dual-line tube enables real-time control of contrast media and saline
- › Accurate flow rate achieved via unique hand controller
- › Valve delivers precise contrast media volume as well as bolus sharpness for better diagnosis

## Efficient Workflow

- › Calibration not required for hand controller
- › Multi-patient tube, contrast syringe and hand controller can be used for 5 consecutive patients\*
- › No need to change the whole fluid path: only dual-line single-patient tube

## Clinical Application Service

- › On-site clinical training to perform procedures with confidence from day one

# Your Partner for Peace of Mind

## Device Service

- › 24/7/365 emergency technical support
- › High quality on-site service
- › Quality care and exceptional value in three customized solutions\*\*

**DirectCARE™**  
Service Agreement Programs

Bayer's most comprehensive on-site service

**SelectCARE™**  
Service Agreement Programs

Essential Bayer options for customized solutions

\* Use with Single Use Hand Controller Sheath required \*\* With purchase of applicable service agreement programs



# MEDRAD® Avanta Sterile Disposables

The MEDRAD® Avanta provides precise fluid control necessary for complex coronary imaging. Design and post-sales support offer comfort and confidence. The disposable products are designed and engineered with quality and efficiency in mind.

## Five-Patient Use



AVA 500 HC  
\*Use with Single Use Hand  
Controller Sheath



AVA 500 MPAT (part 1 of 2)



AVA 500 MPAT (part 2 of 2)

## One-Patient Use

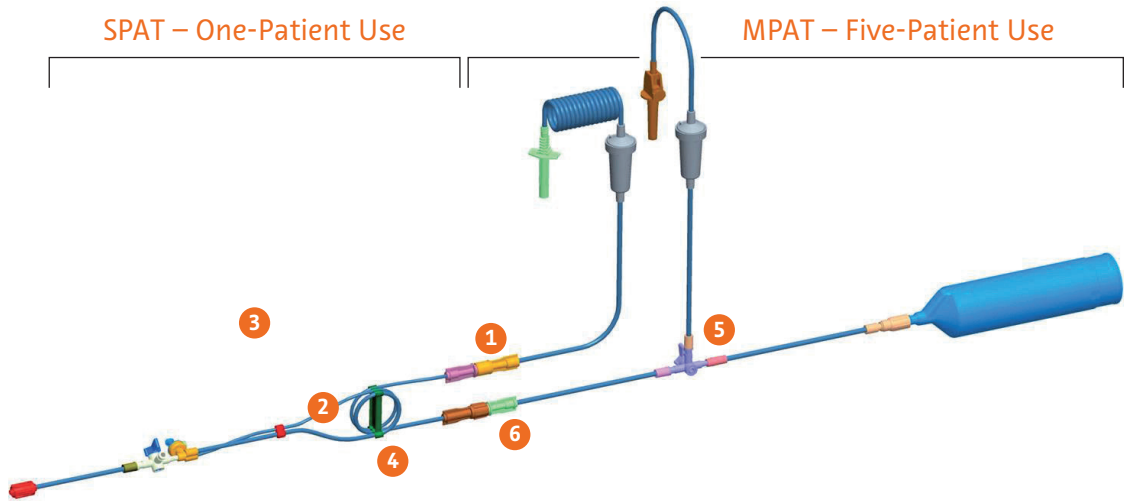


AVA 500 SPAT L



AVA 500 HCS

# SPAT and MPAT Overview



- 1 Checkvalve on MPAT saline side prohibits backflow from the SPAT to the MPAT.
- 2 Separate tubing for saline and contrast is located close to patient.
- 3 Tubing length on SPAT provides a means of preventing contamination from the SPAT to the MPAT.
- 4 Gravity loops prevent contrast from displacing saline at bottom of Avanta tubing and pushing it into the MPAT.
- 5 Automated stopcock on contrast side prohibits backflow.
- 6 Multiguard Luers on SPAT & MPAT:
  - > Recessed luer prevents inadvertent human touch on its surfaces.
  - > Extra set of dust caps in MPAT and SPAT packages provided to discourage environmental contamination.

System design prohibits creation of negative pressure in syringe when stopcock is open.

# MEDRAD® Avanta Offers Two Configurations that Meet the Needs of Your Cardiac Cath Lab

Each suite is unique. With MEDRAD® Avanta, you can choose the best option to optimize your workflow.

The pedestal option offers mobility of the injector. A large handle helps you to push the injector. With the table mount option, the injector moves with the table which offers integrated workflow.



MEDRAD® Avanta Free Standing Pedestal





MEDRAD® Avanta Table Mount

# MEDRAD® Avanta

## Ordering Information

Product	Catalog Number
<b>MEDRAD® Avanta</b>	
Pedestal	AVA 500 PEDL
Table Mount	AVA 500 TABL
<b>Multi-Patient Disposables</b>	
MPAT Kit	AVA 500 MPAT
Hand Controller	AVA 500 HC
<b>Single-Patient Disposables</b>	
Transducer Compatible Tubing	AVA 500 SPAT L
Single Use Hand Controller Sheath	AVA 500 HCS

# Technical Specifications

Technical Specifications	
Flow Rates: Contrast	Fixed Flow: User defined from 1–45 mL/s in increments of 1 mL/s
	Variable Flow: User controlled variable range from 1 to 10 mL/s in 0.1 mL/s increments
Flow Rate: Saline	Fixed Rate: 0.75-1.50mL/s
Volume	User controlled variable range 1–150 mL in increments of 1 mL
Pressure Limits	User defined from 300 PSI to 1200 PSI in increments of 1 PSI
Fixed Rate	Manual Fill Speed 1–20 mL/s in 1 mL/s increments; Auto Fill Speed 1–10 mL/s in 1 mL/s increments
Syringe Heat Maintainer	37°C ±3° (≥1 hr)
Injection Delay	0.0-99.9 seconds in 0.1 s increments
Rise Time	Programmable at 0.1 s increments from 0.0 to 9.9 s
Memory	Up to 40 customizable protocols stored
Display Screen	26 cm (~10.5") Color Touch Screen
Mounting Options	Pedestal or Table Mount
Power Requirements	Nominal 100–120 VAC, 50 or 60 Hz, 12.75 A; 200–240 VAC, 50 or 60 Hz, 5.3A
ISI Capable	Provides for synchronization of the injection and x-ray exposure
Air Management	Gross Air Detection and Fluid Level Sensing

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