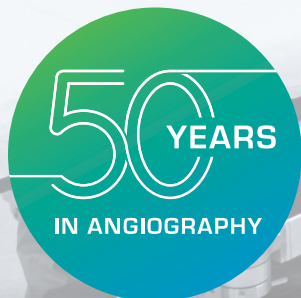




# Your Partner for Cardiac Catheterization



**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.

**99% say MEDRAD® Avanta has good overall performance**

**99% recommend MEDRAD® Avanta**

**98% will purchase MEDRAD® Avanta again**

**90% see an advantage of MEDRAD® Avanta compared to their previous injector**

**80% rate MEDRAD® Avanta excellent or very good**

1. Easy to operate, easy to set up syringes and disposables
2. Good performance, minimum down time
3. Safety - high efficiency in workflow, easy to purge air in syringe and fluid path

*\*Bayer Customer Satisfaction Survey of 125 customers in Italy, Japan, Germany and the U.S., December 2016*

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

\* Use with Single Use Hand Controller Sheath required

\*\* With purchase of applicable service agreement programs

## 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

#### PartnerCARE™

Service Agreement Programs

The Bayer complement to in-house capabilities

- Real-time monitoring and rapid resolution by remote support technology\*

#### VirtualCare™

Remote Support



# 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



AVA 500 MPAT



AVA 500 MPAT

## One-Patient Use



AVA 500 HCS



AVA 500 DCOV

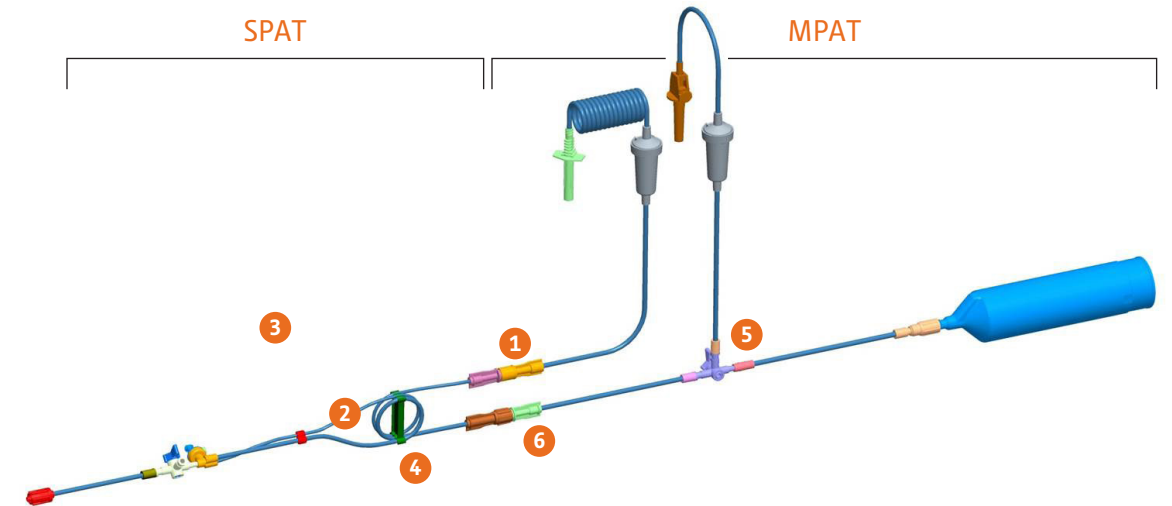


AVA SPAT L



AVA SPAT Angio

# 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 an effective 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
Non-Transducer Compatible Tubing	AVA 500 SPAT Angio
Single-Use Display Control Unit Sheath	AVA 500 DCOV
Single-Use Hand Controller Sheath	AVA 500 HCS

## Technical Specifications

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

## Clear Direction. From Diagnosis to Care.

Bayer reserves the right to modify the specifications and features described herein or to discontinue any product or service identified in this publication at any time without prior notice or obligation. Please contact your authorized Bayer representative for the most current information.

The patient data that appears in this document is actual health information but all personal identifiers have been removed or otherwise anonymized. No personally identifiable information is shown.

Bayer, the Bayer Cross, MEDRAD, and VirtualCare are trademarks owned by and/or registered to Bayer in the U.S. and/or other countries. Other trademarks and company names mentioned herein are properties of their respective owners and are used herein solely for informational purposes. No relationship or endorsement should be inferred or implied.

© 2020 Bayer. This material may not be reproduced, displayed, modified or distributed without the express prior written consent of Bayer.

Disclaimer: This brochure is circulated solely for informational purpose. The information contained herein should not be utilized to diagnose or treat a health problem or disease without referring to the product information for the product referenced.

For the use of registered medical practitioners or laboratory or hospital only.



Bayer Pharmaceuticals Private Limited,  
Bayer House, Hiranandani Estate, Thane,  
India. Pin: 400 607 or  
email - [medicalinfo.india@bayerzyduspharma.com](mailto:medicalinfo.india@bayerzyduspharma.com)

More information on  
[radiology.bayer.com](http://radiology.bayer.com)