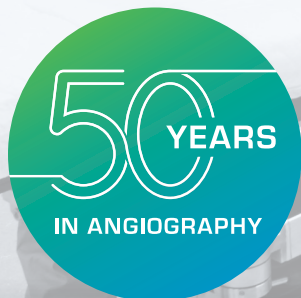




Your Partner for Cardiac Catheterisation



medrad[®] Avanta
Fluid Management Injection System

50 Years in Angiography:

Innovation in Your Interventional Suite

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. We're the experts you've valued for fifty years and the partner you can rely on.



50 Years of Innovation:

Our Customers Are at the Centre of Everything We Do

Optimise Coronary Imaging

- Dual-line tube enables real-time control of contrast media and saline
- Accurate flow rate achieved via unique hand controller

Efficient Workflow

- Calibration not required for hand controller
- Multi-patient tubing, 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

Product Training Support

- On-site 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

- Emergency technical support**
- High quality on-site service
- Quality care and exceptional value in two customised solutions**

DirectCARE™

Service Agreement Programs

Bayer's most comprehensive on-site service

SelectCARE™

Service Agreement Programs

Essential Bayer options for customised solutions

- 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

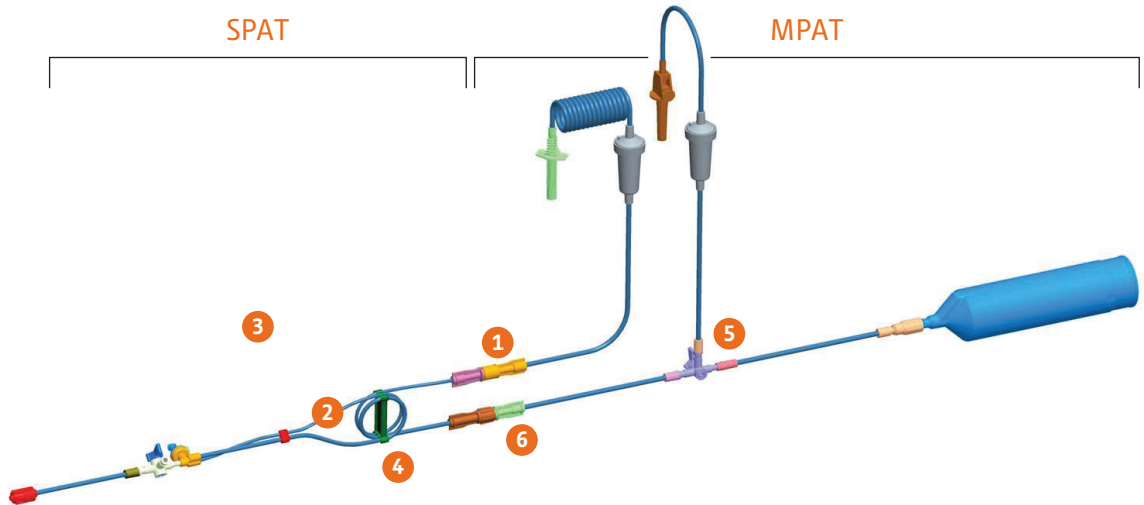


AVA SPAT L



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 Multiguards 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 optimise 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 |
|--|--------------------|
| MEDRAD® Avanta | |
| Pedestal | AVA 500 PEDL |
| Table Mount | AVA 500 TABL |
| Multi-Patient Disposables | |
| MPAT Kit | AVA 500 MPAT |
| Hand Controller | AVA 500 HC |
| Single-Patient Disposables | |
| 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 | |
|--------------------------------|--|
| Flow Rates: Contrast | 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 |
| Flow Rate: Saline | Fixed Rate: 0.75-1.50mL/sec |
| 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 |
| Fill 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 | Injection Delay |
| Rise Time | Programmable at 0.1 sec increments from 0.1 to 9.9 sec |
| Memory | Up to 40 customisable protocols stored |
| Display Screen | 26 cm (~10.5") Colour 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 synchronisation of the injection and x-ray exposure |
| Air Management | Gross Air Detection and Fluid Level Sensing |

Clear Direction. From Diagnosis to Care.

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