

The AVA Cath-In-Cath 2 Port SystemTM is a unique access port and access system developed exclusively for preclinical researchers. Our port system utilizes features researchers have wanted for years but have been unavailable in a single device.

Some of these features include: very low volume, low profile, superior needle/infusion set retention, the ability to restore bidirectional patency, etc.

This port system has been utilized for multiple species, vessels and applications.

The truly unique feature of these portals is the ability to pass a special kink resistant Cath-In-CathTM infusion catheter through the port and into the vessel catheter. The Cath-In-Cath catheters along with the specially designed tapered catheters or the Compati-CathTM co-extruded TPU/PE catheters provide the most secure and versatile infusion set to port connection available.

The flexible cannula does much less damage to the port site and does not require extensive wrapping like a conventional needle and port connection. The Cath-In-Cath 2 PortsTM can also utilize standard non-coring needles when desired.

Benefits of the Cath-In-Cath 2 PortTM over Conventional Access Ports

- Ultra low volume system
- Flexible Cath-In-CathTM set helps prevent disconnect
- Ability to clear obstructions with guide-wire
- Uses 19ga, 22ga, and 24ga CIC infusion sets
- Very low profile

Cath-In-Cath 2TM Ultra Low Profile Titanium Port

SIZE	MATERIALS	HEIGHT	LENGTH	WEIGHT	VOLUME	CAT. NO
Ultra Low Profile	TI, Silicone	8mm	32.5mm	4gm	25µl appx.	AULP
CATHETER	MATERIAL	ID in MM	OD in MM	LENGTH	MODIFICATIONS	CAT. NO.
3-6 French	Polyurethane	0.5mm-1.0mm	0.94mm-1.9mm	60cm	4 & 5cm from tip	AULP-36
4-6 French	Polyurethane	0.7mm-1.0mm	1.35mm-1.9mm	60cm	10 & 11 cm from tip	AULP-46
6 French	Polyurethane	1.0mm	1.9mm	76cm	15 & 20cm from tip	AULP-6

Cath-In-Cath 2TM Low Profile Titanium Port

SIZE	MATERIALS	HEIGHT	LENGTH	WEIGHT	VOLUME	CAT. NO
Low Profile	TI, Silicone	11mm	32.5mm	6gm	50µl appx.	ALAT
CATHETER	MATERIAL	ID in MM	OD in MM	LENGTH	MODIFICATIONS	CAT. NO.
3-6 French	Clear Polyurethane	0.5mm-1.0mm	0.94mm-1.9mm	60cm	5 & 5.5cm from tip	TC36
4-6 French	Clear Polyurethane	0.7mm-1.0mm	1.34mm-1.9mm	60cm	10 & 11 cm from tip	TC46
6 French	Clear Polyurethane	1.0mm	1.9mm	60cm	15 & 16cm from tip	TC6

tip:



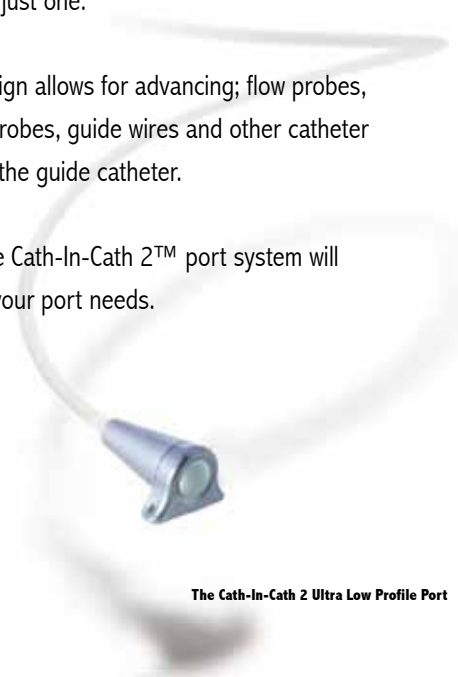
Use HexArmour[®] puncture resistant finger cots over gloves when using the 18ga introducer for increased needlestick safety.

CATH-IN-CATHTM PORT SYSTEMS

With the Cath-In-Cath 2 you have the ability to utilize several gauge sizes and materials with the internal catheters, not just one.

The linear design allows for advancing; flow probes, temperature probes, guide wires and other catheter materials into the guide catheter.

Simply put, the Cath-In-Cath 2TM port system will replace all of your port needs.



The Cath-In-Cath 2 Ultra Low Profile Port



The Cath-In-Cath 2 Low Profile Port

Cath-In-CathTM Flexible Infusion Catheter and Introducer Kit



AVA Biomedical Cath-In-Cath 2 Catheter Introducer Kits				
CATHETER SIZE	LENGTH	MATERIAL	KIT CONTENTS	CAT. NO.
24ga	40cm	Nylon	20ga Introducer Needle 18ga Needle 24ga Nylon Catheter/Stylet 20ga CIC Connector	CIC-24G
20ga	78cm	Nylon	18ga Introducer Needle 16ga Needle 20ga Nylon Catheter/Stylet 20ga CIC Connector	CIC-20G
19ga	78cm	Nylon	16ga Introducer Needle 16ga Needle 19ga Nylon Catheter/Stylet 19ga CIC Connector	CIC-19G
20, 24ga 19ga			20-24 Ga CIC Connector Only 19ga CIC Connector Only	CICC-20 CICC-19

Accessing the system is as easy as 1, 2, 3



Step 1. Palpate port, Insert introducer needle, remove stylet.

Step 2. Insert cannula to desired distance, remove stylet, remove introducer, leave cannula in place.

Step 3. Attach locking luer, confirm bloodflow and lock cannula with desired lock solution.

Photo Courtesy of D.Moddelle

CATH-IN-CATH2

HOW IT WORKS

Question: How does the system work?

Answer: For many applications just like a conventional port, However for Port Needle Dislodgement, Dead Space minimization, Compatibility, etc. simply use the Cath-In-Cath Infusion System.

Accessing port with the Cath-In-Cath2 Infusion System.

Step 1. After proper aseptic technique has been performed insert a 18 g (Pink) needle into the skin located in front of the port diaphragm with care taken not to perforate the port diaphragm. This is to allow for the non-coring needle to pass through the tissue easily.

Step 2. After removing the needle insert the two piece non-coring needle into the passage of the 18 g needle and insert into the diaphragm of the port until the needle has reached the bottom of the port. (Fig 1)

Step 3. Remove the shaft of the two piece needle. (Fig 2)

Step 4. Insert the Cath-In-Cath Catheter and stylet, passing it through the needle and into the lumen of the indwelling catheter. (You can pass the catheter all the way to the taper or use flouro to advance the correct size Cath-In-Cath Catheter all the way to the tip of the guide catheter. Note: It is not necessary to advance the catheter all the way to the tip of the guide catheter) (Fig 3)

Step 5. Remove the guide wire, trim the catheter (if needed).

Step 6. Remove the needle from the the port leaving the Cath-In-Cath system in place.

Step 7. Attach the luer lock adapter to the exposed end of the Cath-In-Cath system and flush accordingly. (Fig 4)

Step 8. Confirm patency and lock with an appropriate locking solution. The catheter is graduated for ease in noting how much length has been placed.

If needed, place the animal into a jacket with the Cath-In-Cath system coiled up into a pocket with a mini-pump or attached to a tether system. Observe the exit site daily and aseptically cleanse the area accordingly. Some facilities clean daily with appropriate solutions such as chlorhexadine with a spray of topical gentamycin to help in preventing track infections. Change dirty jackets immediately.



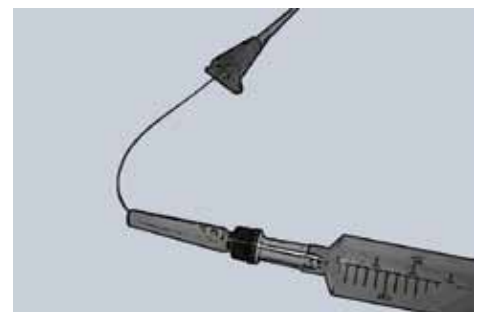
(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)