

PINPORTS™

Instech PinPorts™ provide fast, aseptic access to externalized laboratory animal catheters, tubing or cannulae for dosing or sampling. They can reduce study costs and improve compliance with the 3Rs. The system consists of a lightweight port, just 3mm in diameter, and a mating injector or connector which can access the port hundreds of times.

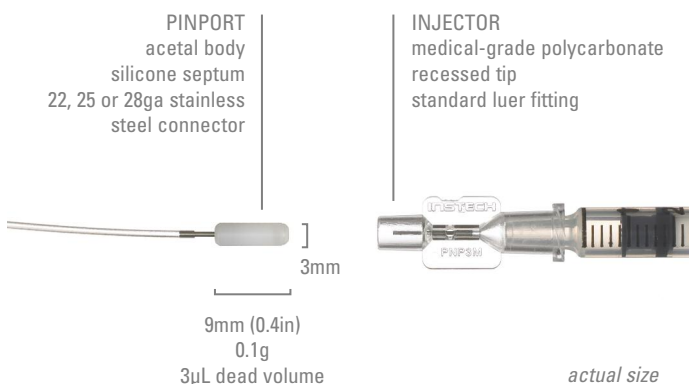
Quick. Infuse or withdraw from a catheter in a fraction of the time it takes with plugs and blunt needles.

Clean. The PinPort is a closed system that permits aseptic technique. This can reduce infection, improve patency and ultimately reduce the number of animals required for a study.

Safe. The injector is recessed and provides complete needle stick protection for personnel.

PinPort™ for Catheters and Tubing

The standard PinPort™ is a smooth 3mm-diameter port with 22ga, 25ga or 28ga couplers. It is available in white, red or blue (22ga only); use colors to distinguish vessels.

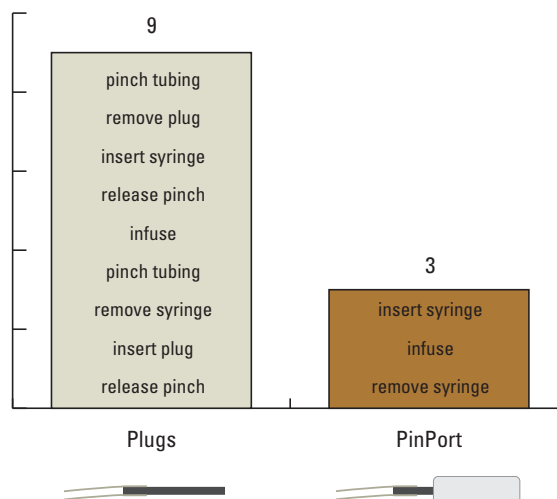


Use a PinPort in place of stainless steel plugs to terminate externalized catheters, then access the catheter through the port using a syringe with a PinPort injector.



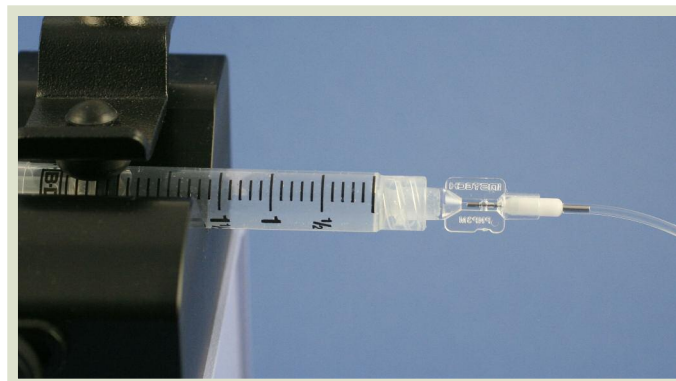
PinPort used for direct blood sampling from externalized rat catheter

NUMBER OF STEPS TO ACCESS CATHETER



Animals can be ordered from vendors with the PinPort installed at the time of catheterization. Envigo developed an effective method for anchoring the PinPort and achieved 90% of rat JVCs fully patent (for blood sampling as well as infusion) after one month, flushing only once per week.









PinPorts can also be used anywhere in an infusion set where frequent connections and disconnections occur, so long as that joint does not experience lateral forces strong enough to accidentally disengage the port during a study.










PinPort used to connect a syringe to an infusion set in an infusion toxicology study, making syringe changes simpler and cleaner

Both the ports and the injectors are available separately in boxes of 50 or 250, packaged 5 to a sterile pouch. Ports and injectors are also available as a set, packaged one set per pouch, 20 pouches per box. All parts are provided EtO sterilized.

PinPorts




Color Connector (ODxID)	250 pc box  x 50	50 pc box  x 10
 White 22ga (.028x.016in)	PNP3F22	PNP3F22-50
 Red 22ga (.028x.016in)	PNP3F22R	PNP3F22R-50
 Blue 22ga (.028x.016in)	PNP3F22B	PNP3F22B-50
 White 25ga (.020x.010in)	PNP3F25	PNP3F25-50
 Red 25ga (.020x.010in)	PNP3F25R	PNP3F25R-50
 White 28ga (.014x.007in)	PNP3F28	PNP3F28-50 NEW

PinPort and Injector Sets

Color Connector (ODxID)	20 pc box  x 20
 White 22ga (.028x.016in)	PNP3M-F22
 Red 22ga (.028x.016in)	PNP3M-F22R
 Blue 22ga (.028x.016in)	PNP3M-F22B
 White 25ga (.020x.010in)	PNP3M-F25
 Red 25ga (.020x.010in)	PNP3M-F25R
 White 28ga (.014x.007in)	PNP3M-F28 NEW

 www.instechlabs.com/Infusion/ports/pinport.php

PinPort Injectors

250 pc box  x 50	50 pc box  x 10
 PNP3M	PNP3M-50

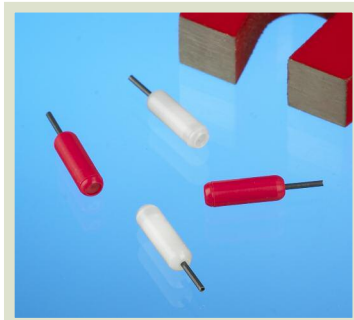
Use only PNP3M injectors to access PinPorts. Any other type of needle will damage the PinPort septum.

Compatible Catheters

Instech provides a range of rat and mouse catheters that have been extruded for a perfect fit with 22ga and 25ga PinPorts. Access smaller anatomy, such as the mouse carotid artery or rat intrathecal space, with two-piece catheters.

PinPort	Mating Tubing/Catheter
22ga	3Fr, polyurethane preferred, .024-.025in (.61-.64mm) ID ideal
25ga	2Fr, polyurethane preferred, .016-.017in (.41-.43mm) ID ideal
28ga	PE-10, .011-.012in (.28-.30mm) ID

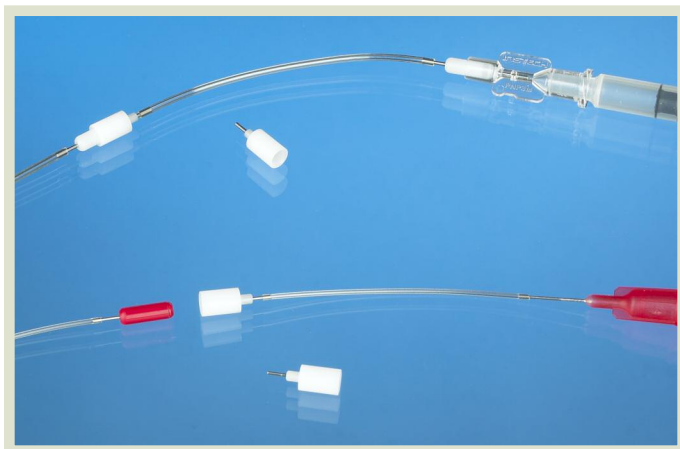
MRI-Compatible PinPorts



The inputs for these non-magnetic PinPorts and port-to-tubing connectors are made with Nitinol tubing instead of stainless steel. The injectors included with the ports do still include stainless steel tubing as it is assumed these will be used for intermittent access outside the magnetic field.

Part No.	Description	Unit
PNP3M-F22MRI	PinPort, 22ga white, non-magnetic, injector	box of 20
PNP3M-F22RMRI	PinPort, 22ga red, non-magnetic, injector	box of 20
www.instechlabs.com/Infusion/ports/mripinports.php		

PinPort™-to-Tubing Connectors



Use a PinPort connector to access a PinPort at the end of a segment of tubing. Applications include acute experiments where tethering is not necessary, or external tubing connections where the self-sealing septum in the PinPort is helpful.

The connectors are 12mm long and feature 22ga or 25ga inputs. The tube that pierces the PinPort septum is 25ga.

They are individually packaged and EtO sterilized with a minimum order quantity of 5 pieces. The connectors can be built into custom extension sets on request, including, for example, a length of tubing and a luer stub.

Part No.	Description	Unit
PNP3MC/22	Male PinPort connector, 22ga inlet, sterile	ea
PNP3MC/25	Male PinPort connector, 25ga inlet, sterile	ea
www.instechlabs.com/Infusion/ports/pinportconnectors.php		

PinPort for Rodent Middle Ear Access



This PinPort variant, useful for ototoxicity studies, is designed to be mounted on the skull for intermittent access to the middle ear of rats and guinea pigs via a short 3Fr catheter. The port is 16mm long with notches

and a groove on the portion of the port which is embedded in dental acrylic. Dead volume is approximately 5µL. Provided sterile, individually packaged with a PinPort injector.

Part No.	Description	Unit
PNP3F22/OT160	PinPort, 16mm notched, injector, sterile	ea
www.instechlabs.com/Infusion/ports/rodentmiddleear.php		

Low Volume Port for Luers



This specialty injection port is designed to convert the female luer of certain IV catheters into a PinPort, displacing the dead volume in the luer for critical applications and providing the closed-system benefits of the PinPort. It has been designed to fully displace the volume in the luer of a

Terumo SurFlash® Safety IV catheter (shown but not included). Not all luers are alike, so in others it might bottom out before sealing or it may not displace the entire volume. The SurFlash luers have a depth of about 12.5mm which is more than most.

Access the LVP3F manually with a PinPort injector, or use the LVP3F-PNP3M/25 set for continuous connection to tubing that fits 25ga.

Part No.	Description	Unit
LVP3F	Low-volume luer injection port	ea
LVP3F- PNP3M/25	LV luer inj. port w/ mating 25ga connector	ea
www.instechlabs.com/Infusion/ports/lowvolumeluerport.php		