

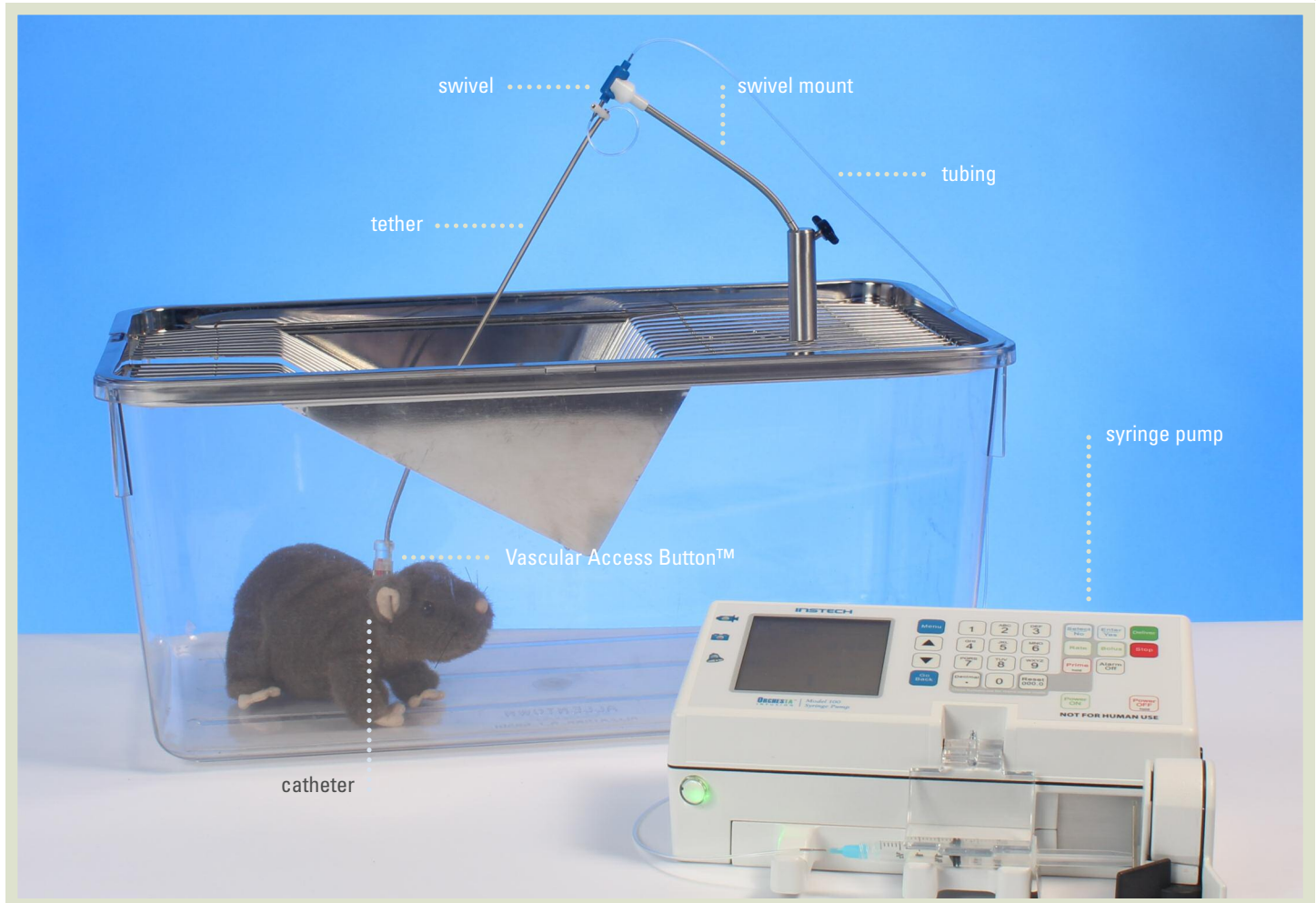
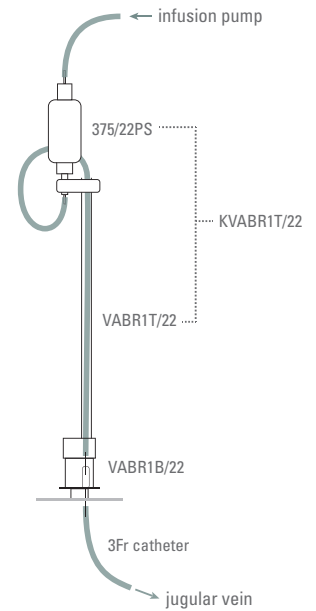
# RAT INFUSION

Continuous intravenous infusion of rats is the most common application of Instech's equipment. A basic system includes a catheter, exteriorization device, tether, swivel, swivel-to-cage mount and infusion pump.

You have several options with a rat system: reusable or disposable components, tethers that attach to a harness worn by the rat or to a button that is surgically implanted, and a range of catheters depending on the vessel or organ you need to access.

Use a Harvard Apparatus 11 Elite syringe pump for most basic experiments; for GLP studies use the advanced OrchesTA™ model 100 syringe pump.

[www.instechlabs.com/Infusion/systems/single.php](http://www.instechlabs.com/Infusion/systems/single.php)

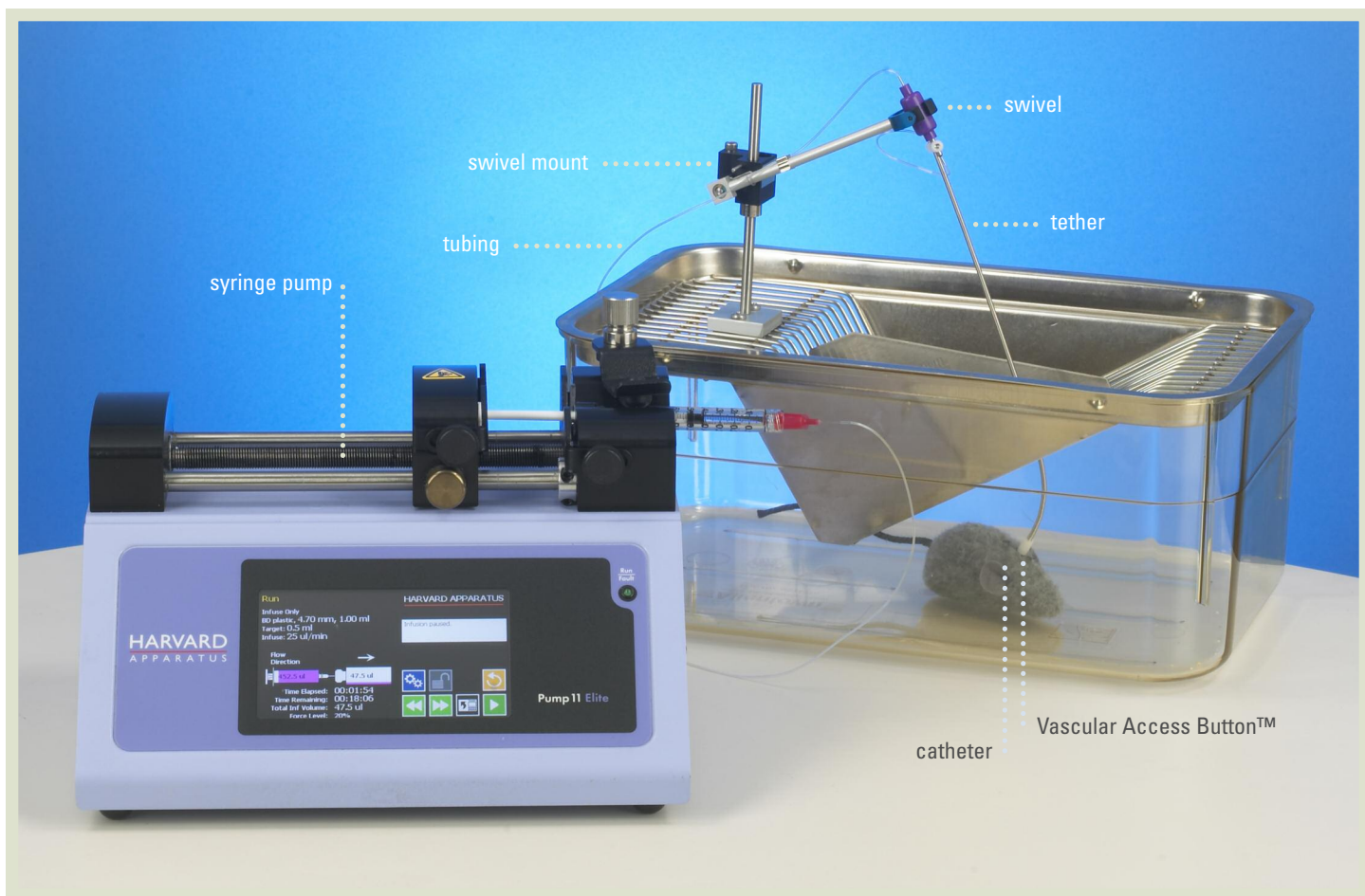


## SYSTEM COMPONENTS



	AS SHOWN	ALTERNATIVES
<b>PUMP</b>	 <p><b>OR-100-0001</b> (p54) OrchestTA syringe pump</p>	 <p><b>HA1100</b> (p56) Harvard Apparatus pump</p>
<b>SWIVEL</b>	 <p><b>375/22PS</b> (p39) Plastic swivel, 1ch, 22ga</p>	 <p><b>375/22</b> (p40) Stainless steel swivel, 1ch, 22ga</p>
<b>SWIVEL MOUNT</b>	 <p><b>CM375KRP</b> (p45) Spring balanced mount</p>	 <p><b>CM375BS</b> (p45) Counter-balanced mount</p>
<b>TETHER</b>	 <p><b>VABR1T/22</b> (p28) Vascular Access Button tether <b>VABR1B/22</b> Vascular Access Button, 1ch, 22ga</p>	 <p><b>VAH95T</b> (p31) Vascular Access Harness tether <b>VAH95AB</b> Vascular Access Harness, 1ch</p>
<b>CATHETER</b> (many other options available)	 <p><b>C30PU-RJV1303</b> (p21) Rat JVC, 3Fr</p>	 <p><b>C30PU-RFV1308</b> (p21) Rat FVC, 3Fr</p>

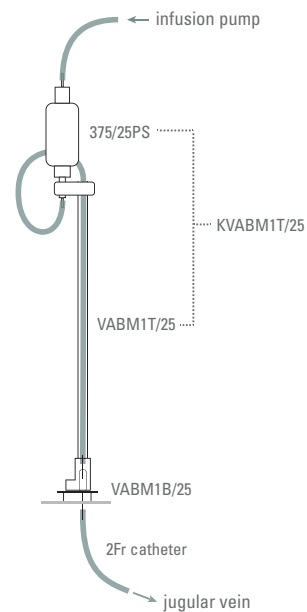
# MOUSE INFUSION



Choose your equipment carefully when setting up continuous mouse infusion studies. A typical mouse can turn a swivel with no more than 0.025oz-in of frictional torque. Instech has three models that meet this specification: a 25ga stainless steel model, a 25ga plastic model, and the 375/D/22LT dual channel model. Always use a spring counter-balanced lever arm to remove the weight of the tether from the mouse.



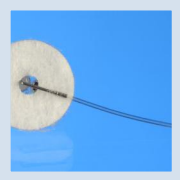
Instech's mouse catheters are designed for mouse anatomy on one end and, on the other, to connect to a Vascular Access Button™ for reliable exteriorization and simple connection to a tether, swivel and syringe pump.

[www.instechlabs.com/Infusion/systems/singlemice.php](http://www.instechlabs.com/Infusion/systems/singlemice.php)



## SYSTEM COMPONENTS



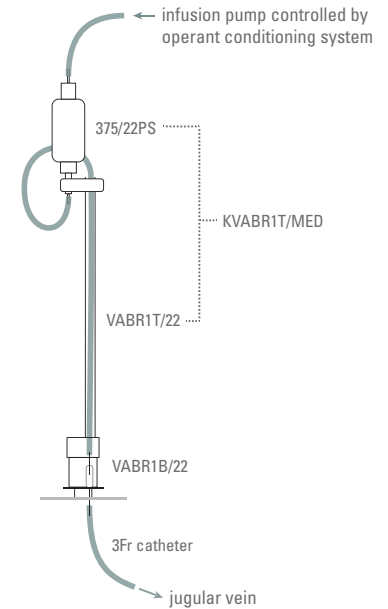
	AS SHOWN	ALTERNATIVES
<b>PUMP</b>	 <p><b>HA1100</b> (p56) Harvard Apparatus pump</p>	 <p><b>OR-100-0001</b> (p54) OrchesTA syringe pump</p>
<b>SWIVEL</b>	 <p><b>375/25PS</b> (p39) Plastic swivel, 1ch, 25ga</p>	 <p><b>375/25</b> (p40) Stainless steel swivel, 1ch, 25ga</p>
<b>SWIVEL MOUNT</b>	 <p><b>SMCLA</b> (p46) Counter-balanced lever arm</p>	
<b>TETHER</b>	 <p><b>VABM1T/25</b> (p33) Vascular Access Button tether <b>VABM1B/25</b> Vascular Access Button, 1ch, 25ga</p>	 <p><b>VABM1T/25</b> (p33) Vascular Access Button tether <b>VABM1B/22</b> Vascular Access Button, 1ch, 22ga</p>
<b>CATHETER</b> (many other options available)	 <p><b>C20PU-MJV1617</b> (p23) Mouse JVC, 2Fr</p>	 <p><b>C10PU-MFV1301</b> (p23) Mouse FVC, 1-3Fr</p>

# IV SELF ADMINISTRATION

Rat 



Operant chambers shown are courtesy of Med Associates, Inc.



Instech swivels, tethers and balance arms are used with operant behavior systems for IV self administration studies. A lever press or nose poke will trigger an IV dose from a syringe pump.

Instech's Vascular Access Buttons were originally developed for self-administration studies because of long-term patency and the simplicity of moving animals into and out of the operant chamber.

[www.instechlabs.com/Infusion/systems/selfadministration-rat.php](http://www.instechlabs.com/Infusion/systems/selfadministration-rat.php)  
[www.instechlabs.com/Infusion/systems/selfadministration-mouse.php](http://www.instechlabs.com/Infusion/systems/selfadministration-mouse.php)

## Connection Options for IV Self Administration

RAT

BUTTON



**VABR1B/22**  
 - quick connecting  
 - closed system  
 - group housing possible

HARNESS



**VAH95AB**  
 - quick connecting  
 - closed system

MOUSE

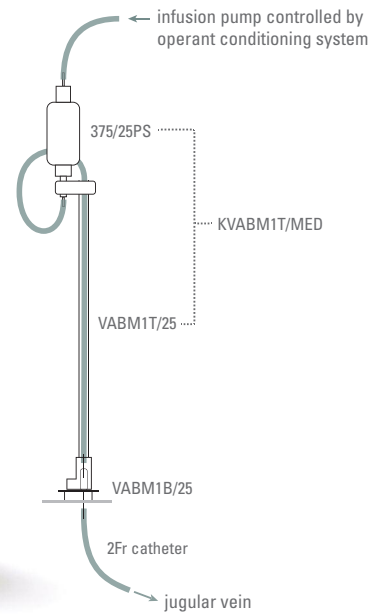
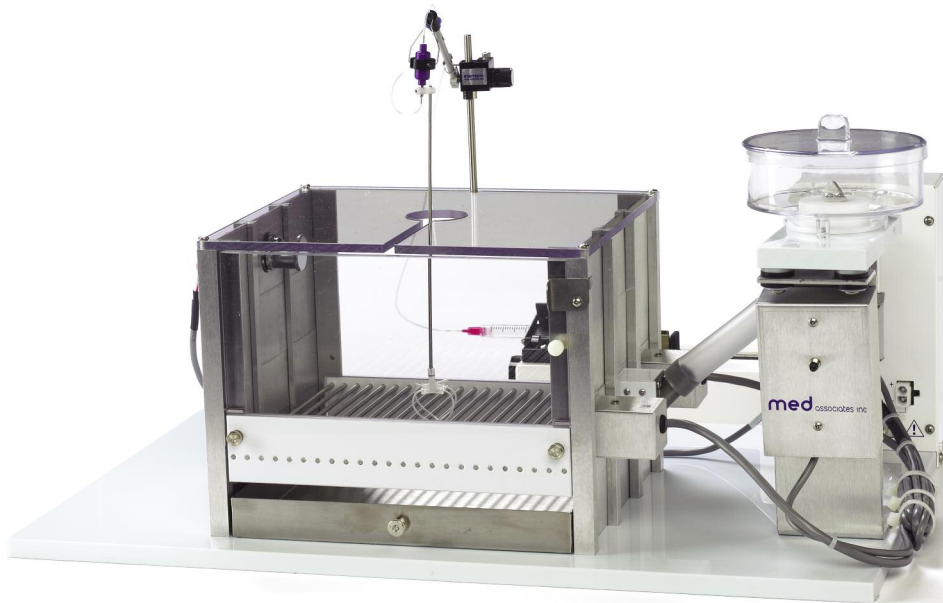


**VABM1B/25**  
 - quick connecting  
 - closed system  
 - group housing possible



# IV SELF ADMINISTRATION

 *Mouse*



## IV SELF-ADMINISTRATION SYSTEMS

MANUFACTURER	OPERANT CHAMBER*	COMPATIBLE INSTECH EQUIPMENT	
Med Associates, Inc. St. Albans VT, USA www.med-associates.com	MED-008-CT-B1 Basic rat self administration test package	MOUNT (p46)	SWIVEL & TETHER (p27, 39)
	MED-307A-CT-B1 Basic mouse self administration test package	MCLA/MED	KVABR1T/MED, VABR1B/22
TSE Systems GmbH Bad Homburg, Germany www.tse-systems.com	PhenoMaster Behavior Operant behavior home cage monitoring system - for rats - for mice	SMCLA/MED	KVABM1T/MED, VABM1B/25
		CM375BS SMCLA	375/22, VABR1T/22, VABR1B/22 375/25, VABM1B/25, VABM1T/25
Coulbourn Instruments Whitehall PA, USA www.coulbourn.com	Habitest Modular Test Cages - for rats - for mice	MCLA/COUL	KVABR1T/MED, VABR1B/22
		SMCLA/COUL	KVABM1T/MED, VABM1B/25
Panlab, S.L. Barcelona, Spain www.panlab.com	Modular Self Administration Boxes		

\* Operant chamber system information provided for reference only. Order directly from the manufacturer.