

Congratulations on your purchase of an Instech animal infusion swivel. We think you will find it to be the finest dual channel swivel available anywhere. This manual describes simple operating and maintenance procedures that will help keep your swivel in peak condition through hundreds of uses.

If you are accustomed to using our single channel swivels you will need to treat the duals with a bit more care because the seals, particularly on the side channel, are more delicate.

1.

USE

This precision swivel was designed to provide unlimited rotation for animals undergoing tethered IV infusion. Fluids passing through the center or side channels touch only Teflon and stainless steel. Unique self-adjusting seals help prevent leaks over the life of the swivel.

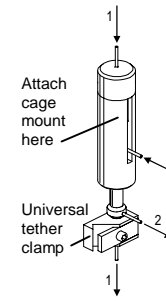
Swivels should be firmly affixed outside the cage in a position that will give the tethered animal the greatest range of movement. If your cage is not equipped with a swivel mount, call Instech for information on our range of mounts.

2.

The universal clamp provided with the swivel is compatible with spring tethers from 0.08" to 0.2" OD. Use the 0.050" Allen wrench to attach the clamp to the bottom of the swivel and to tighten the V-block mount around the tether.

Attach cannulae to the bottom side and center channels and loop them around and down through the top of the spring.

3.



CLEANING AFTER EVERY USE

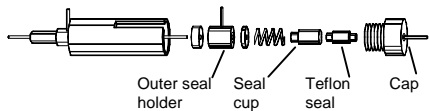
Swivels should be cleaned after each use so that salt crystals do not form and damage the seals.

- Pull back on a syringe to suck water, alcohol, or sterilizing solutions back through both channels of the swivel. *Never force fluids through a dual channel swivel with a syringe or pump, as the pressure this generates will damage the seals.*
- Next, dry the insides by using the syringe to pull air through the swivel.
- You can autoclave these swivels, if desired.

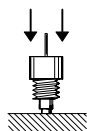
4.

TROUBLESHOOTING

Assuming you clean your swivel after each use, you will rarely need to disassemble it. In general, you should not attempt to repair a damaged dual channel swivel yourself unless you have ordered special tools and parts from Instech.



5.



An exception is a leaking center channel seal, which is relatively easy to fix. Unscrew the cap and remove only the white Teflon seal and seal cup, leaving the outer seal holder in place. Place the seal and seal cup combination into the cap and press it onto a flat surface as shown. This will force the seal against the interior of the cup and slightly reduce the diameter of the hole in the seal. Repeat this procedure for the other end of the seal. Test the seal for a snug fit by slipping it over the outlet tube. Refer to the diagram to reassemble the swivel.

6.

FOR MORE INFORMATION

If you have any questions about your swivel please don't hesitate to contact us. You can also visit our web site for information on our products, answers to technical questions, and tips from other users.

To complete your animal infusion system, ask for information on other Instech products:

- Single channel swivels
- Precision peristaltic and syringe pumps
- Surgical button and head block tethers
- Cage mounts and other accessories.

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INSTECH

INSTRUCTION MANUAL
375 Series Dual Channel Swivels

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