

# Using Dual Channel Stainless Steel Swivels

Guidance for part numbers: 375/D/25, 375/D/22, 375/D/20



## INTENDED USE

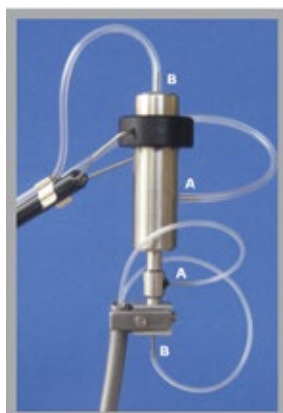
Prevents tangling of two independent fluid channels during rodent infusion and/or sampling. To be used in combination with a spring tether.

## WARNINGS

- Pull water then air through swivel after every use.
- Do not force fluid through swivel manually with a syringe.
- Do not apply side loads to inlet and outlet tubes.
- Sterilize by heat (autoclave), EtO or cold sterilant.
- If bearings get wet, disassemble and oil.

Additional warnings apply to quartz-lined 375/D/22QE and 375/D/22QM. See specific instructions for use for those models.

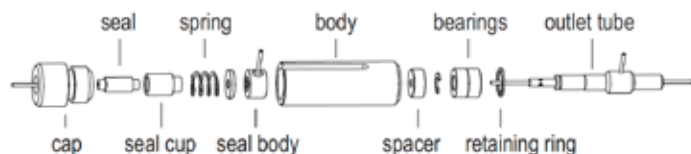
## USE



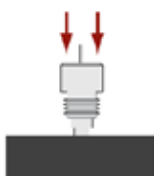
1. Sterilize fluid path prior to use.
2. Set up mount above the cage to give animal the greatest range of movement. CM375BS counter-balance recommended for most shoebox cages. Use MCLA for microdialysis; SMCLA for mice. Tighten mount to swivel body (with logo) not cap.
3. Attach spring tether to V-block of universal clamp using included 0.050" allen wrench.
4. Attach IV lines, noting connection of side channels (A) and center channels (B). See Guide to Tubing Fit for compatible tubing choices.
5. Clean after every use to prevent build up of salt crystals or particulate that can clog swivel. Use a syringe to suck water back through the swivel to dissolve salts. Avoid forcing fluids through a swivel with a syringe or pump as the pressures this generates can damage the seal. Next, dry the insides by using the syringe to pull air through the swivel.

## TROUBLESHOOTING AND REPAIR

In general, you should not attempt to repair a dual channel swivel yourself unless you have ordered special tools and repair parts from Instech.



**Center channel leaks.** This is the one repair that can be made without special tools. Disassemble swivel. Place the Teflon seal and seal cup combination in the cap and press down on a flat surface to reshape the seal against the interior of the cap. Flip seal over and repeat. Lubricate bearings with a light machine oil such as 3-in-One® and blow dry prior to reassembly. If it continues to leak, return for



factory service or order replacement seals.

**Side channel leaks.** Side channels may leak if the seal becomes damaged due to excessive pulling, pushing or cocking when attaching or removing tubing, or due to excessive pressures (for example, if fluid is forced through it with a syringe). Return for factory repair or order a kit to repair yourself.

**Swivel does not turn freely.** Most frequently due to rusted bearings as a result of a leak or spillage of fluids. Return for factory repair or order a kit to repair yourself.

**Swivel clogged.** A swivel can become plugged if it is not cleaned and dried after use or if it is dropped and cores out flooring. Return for factory repair or order a kit to repair yourself. Some side channel clogs are not repairable.

*Tube bent.* Try to straighten with needle nose pliers. If the tube breaks, return to factory for repair.

*Rust appears in infusate.* Prolonged exposure to saline solutions, particularly in the side channel of a dual channel swivel, will result in small amounts of iron oxide being formed. To remove it, flush the side channel with 3 Normal HCl until the acid runs clear. Rinse with water. Re-passivate by filling the side channel with 5 Normal nitric acid; let stand for about 30 min. Rinse out all traces of acid before next use. To prevent rust in the future, clean after every use as described above and do not store with saline solution in the lines.

For do-it-yourself repair kits, see:

<https://www.instechlabs.com/products/swivels-mounts/swivels/swivel-repair>

For factory repair, request an RA number at:

<https://www.instechlabs.com/contact/returns>

## SPECIFICATIONS

See specification sheets online at <https://www.instechlabs.com/products/swivels-mounts/swivels/stainless-steel-two-channel>



# INSTECH

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