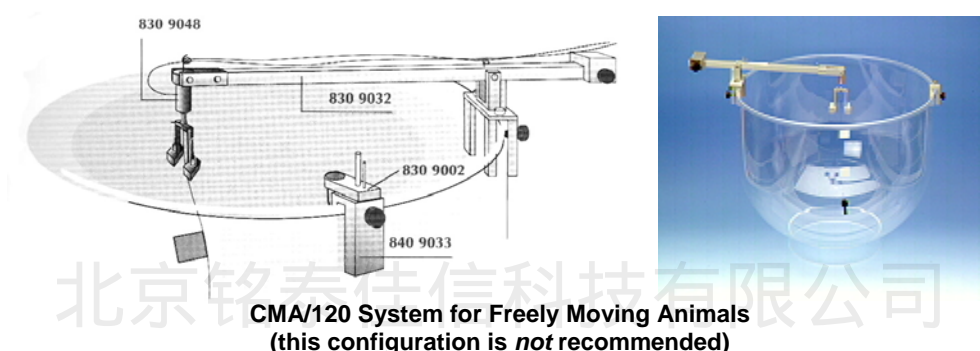


CUSTOMER NOTICE / Effective March 9, 2005


## Microdialysis Swivels Now Supplied With Gimbal For Use With CMA/120 Balance Arm

**Old System.** The CMA/120 system for microdialysis on freely moving animals typically features an Instech dual channel microdialysis swivel (CMA part no 830 9048, Instech part no 375/D/22QE) mounted in the CMA balance arm (CMA part no 830 9032).



**Problem.** The design of the CMA balance arm allows movement of the swivel in one axis only, which places stress on the swivel and may result in failures. In the case of the 375/D/22QE swivel, the most common failure mode is an unintended unscrewing of the swivel cap during operation. Instech's newer 375/D/22QM model may actually break under these stresses.

**Solution.** To solve these problems Instech has developed an extra part to suspend the swivels from the CMA arm, which allows movement in two axes.

	Part no	Description
	GIMBAL/CMA	Swivel holder for CMA/120 balance arm

Instech strongly recommends that all customers using the CMA balance arm use this gimbal. Use of swivels in the CMA arm without this gimbal will void the Instech warranty.

This extra gimbal is not required when using Instech's multi-axis [MCLA or SMCLA balance arms](#).

\* The 375/D/22QM model features low dead volumes and quartz lining on both inlet and outlet channels (as opposed to the center channel only on the 'QE' model) as well as extremely low rotational torques such that it can be used with mice. See <http://www.instechlabs.com/Infusion/swivels/375d22qm.php> for details.

NEW

OLD

REPLACE THIS CAP

WITH THIS SLOTTED PIN

SUSPEND SWIVEL  
WITH GIMBAL

TIGHTEN SET  
SCREW ON BODY  
NOT CAP

HIGH STRESS  
AREA

PRESENT CONFIGURATION  
DOES NOT SWING FROM  
SIDE TO SIDE.  
ALUM PART ATTACHED  
TO OUTLET OF SWIVEL  
RESULTS IN LONG LEVER  
ARM.  
QM SWIVELS ARE BREAKING  
DUE TO THESE HIGH FORCES.

0.94"

WILL NOT BREAK  
SWIVELS BUT WILL  
SIT LOWER IN TANK

ONE DEGREE  
OF FREEDOM

TWO DEGREES  
OF FREEDOM

北京铭泰佳信科技有限公司

Mat'l:
Finish:
Tolerances Unless Specified
0.X=±.015" Angles ±1°
0.XX=±.005"
0.XXX=±.002"

TITLE		SWIVEL SUPPORT HANGER FOR CMA ARM		PN	GIMBAL/CMA	
COMPANY				DRAWN BY MHL		DATE 3/7/05
COMMENTS ...CMA\CMAQM1.DWG				CHECKED BY		DATE
SCALE		ECO/REV		APPROVED BY		DATE
<b>INSTECH</b>				5209 MILITIA HILL RD. PLYMOUTH MEETING, PA 19462		