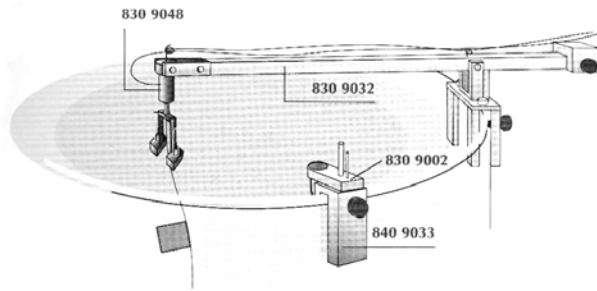


CUSTOMER NOTICE / Effective March 9, 2005

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).



**CMA/120 System for Freely Moving Animals
 (this configuration is *not* recommended)**

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

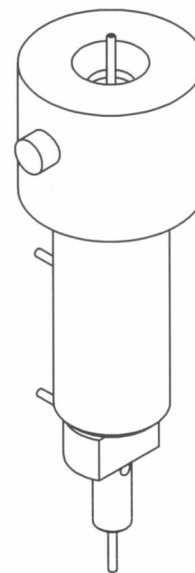
TIGHTEN SET SCREW ON BODY NOT CAP

HIGH STRESS AREA

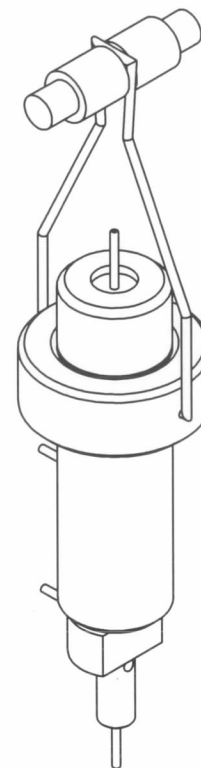
PRESENT CONFIGURATION DOES NOT SWING FROM SIDE TO SIDE. ALUM PART ATTACHED TO OUTLET OF SWIVEL RESULTS IN LONG LEVER ARM. QM SWIVELS ARE BREAKING DUE TO THESE HIGH FORCES.

0.94"

WILL NOT BREAK SWIVELS BUT WILL SIT LOWER IN TANK



ONE DEGREE OF FREEDOM



TWO DEGREES OF FREEDOM

Mat'l:	TITLE	SWIVEL SUPPORT HANGER FOR CMA ARM	PN	GIMBAL/CMA
Finish:	COMPANY		DRAWN BY	MHL
	COMMENTS	...CMA\CMAQM1.DWG	CHECKED BY	DATE
	SCALE	ECO/REV	APPROVED BY	DATE
	INSTECH		5209 MILITIA HILL RD.	
			PLYMOUTH MEETING, PA 19462	

Tolerances Unless Specified	
0.X=± .015"	Angles ±1°
0.XX=± .005"	
0.XXX=± .002"	