

SERVICE & SUPPORT

Thank you for choosing Sutter Instrument products. To guarantee the highest standards of quality and performance, every instrument is fabricated on site by highly skilled technicians. The instrument contained herein has been assembled with care and tested to assure it meets rigid quality control standards.

We hope that our instruments and products continually meet your needs. However, should a problem arise, please contact our technical support staff to discuss your concerns. If the instrument requires factory service, we will furnish shipping instructions. Items under warranty will be repaired free of any costs for parts or service. Both delivery and return shipping costs are the responsibility of the owner.

This product carries a limited warranty of 2 years for parts and labor.

Our office hours are 8:00 am to 5:00 pm Pacific Standard Time, Monday through Friday.

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XENOWORKS® DIGITAL INJECTOR (BRE) PRESSURE SETTINGS

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Application	Tip Size	Taper Length	Glass Size and Special Note	Pipette Cookbook Chapter	Compensation Pressure (hPa)	Injection Duration (seconds)	Injection Pressure (hPa)	Injection Pressure (psi)
Adherent Cell (5 - 10 µm Neurons)	0.1 - 0.3 µm	7 - 8 mm	Glass: BF100-78-10 Slightly larger tips are needed for injecting beads or quantum dots	Chapter 2	20 - 40	0.20	500 - 1000	7.5 - 15 psi
Adherent Cell (20 - 40 µm Cells)	0.3 - 0.5 µm	4 - 6 mm	Glass: BF100-78-10 or BF100-58-10	Chapter 2	20 - 40	0.20	300 - 800	4.5 - 11.5 psi
Pronuclear & Cytoplasmic Injection	0.5 - 1.5 µm	7 - 9 mm	Glass: BF100-78-10 Tip often "tapped off" (broken back) on holding pipette	Chapter 4	20 - 40	0.20	400 - 1200	4.5 - 15 psi
C.Elegans	1 - 3 µm	6 - 8 mm	Glass: BF100-78-10 or BF100-58-10 Tip beveled or trimmed to create a 1 - 3 µm opening	Chapters 2 & 3	5 - 15	0.20	100 - 200	1.5 - 3.0 psi
Drosophila Mosquito Egg	2 - 3 µm	7 - 9 mm	AF100-64-10 (Aluminosilicate glass) Tip beveled to create a 2 - 3 µm opening	Chapters 2 & 13	100 - 500	0.2 - 0.5	500 - 1000	50 - 100 psi
Zebrafish	6 - 12 µm	6 - 8 mm	Glass: BF100-78-10 Tip beveled or trimmed to create a 6 - 12 µm opening	Chapter 2	5 - 10	0.04	4500 - 5000	65 - 72.5 psi
Xenopus	3 - 7 µm	10 - 15 mm	Glass: BF100-78-10 Tip beveled or trimmed to create a 3 - 7 µm opening	Chapter 9	5 - 10	0.2 - 0.5	50 - 200	0.75 - 3.0 psi
Sea Urchin Eggs Cuttlefish SQUID	0.5 - 2.5 µm	7 - 9 mm	AF100-64-10 (Aluminosilicate glass) QF100-70-10 (Quartz glass) Tip beveled or trimmed to create a 0.5 - 2.5 µm opening	Chapters 12 & 13	10 - 20	0.2 - 0.5	200 - 400	3.0 - 5.75 psi
Small Fish Egg (100 - 500 µm)	0.5 - 2.5 µm	8 - 10 mm	AF100-64-10 (Aluminosilicate glass) QF100-70-10 (Quartz glass) Tip beveled or trimmed to create a 0.5 - 2.5 µm opening	Chapters 12 & 13	10 - 20	0.50	For smaller tips: 500 - 1000 For larger tips: 200 - 500	7.5 - 15 psi or 3.0 - 7.5 psi
Large Fish Egg (500 - 1500 µm)	0.5 - 2.5 µm	8 - 10 mm	AF100-64-10 (Aluminosilicate glass) QF100-70-10 (Quartz glass) Tip beveled or trimmed to create a 0.5 - 2.5 µm opening	Chapter 2	10 - 20	0.50	For smaller tips: 500 - 1000 For larger tips: 200 - 500	7.5 - 15 psi or 3.0 - 7.5 psi