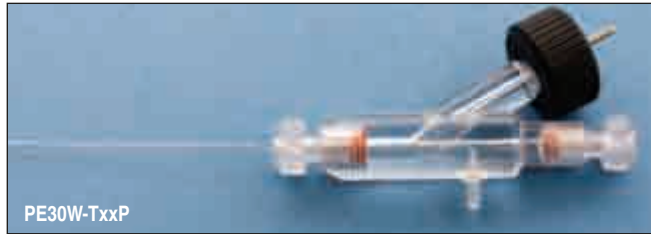
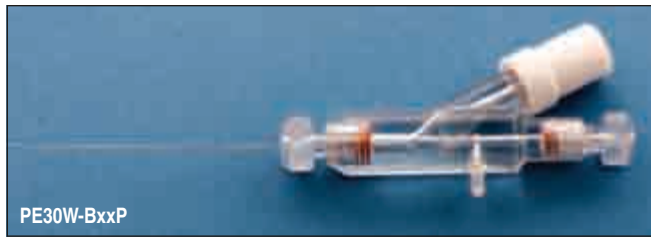


# microelectrode holders

## NEW PE30W Series

### PE30W Series Electrode Holders for Patch Perfusion



#### Specifications

Body Material: Polycarbonate

Body Style: 30

Connectors: 1 mm Pin, 1 mm Pin

Threaded and BNC

Coupling: Ag Wire

Port: 2 mm diameter

Polycarbonate

Perfusion Port: port accepts

tubing up to 1 mm diameter

Standard Glass Sizes: 1.0, 1.2,

1.5, 1.7 and 2.0 mm

#### Patch Clamp Compatibility

Connector	For use with
1 mm Pin	Warner Patch Clamp Models PC-501 & PC-505 Axon Patch Clamps prior to 2/1/95
BNC	List, Heka and Dagan Patch Clamps
1 mm Pin with threaded collar	Axon Patch Clamps and Microelectrode Amps prior to 2/1/95

#### \*References:

- 1) Nehr, E. and Eckert, R.: Fast patch-pipette internal perfusion with minimum solution flow. Grinnel, A.D., Armstrong, D. and Jackson, M.B.: Calcium and Ion Channel Modulation, Plenum Press, N.Y. Cull-Candy, S.G., Miledi, R. and Parker, I.: Single glutamate-activated channels recorded from locust muscle fibers with perfused patch clamp electrodes. *J. Physiology* 32-, 195-210.
- 2) Pusch, M. and Nehr, E. (1987) Kinetics of loading small cells with various compounds by use of patch pipettes. *Pflugers Archives (Spring Meeting of the Physiol. Ges.)*. Tang, J.M., Wang, J. and Eisenberg, R.S. (1992) Perfusing patch pipettes. *Methods in Enzymol.* 207, 176-181.

#### • Microperfusion (perfusion at the pipette tip)\*

#### For microperfusion inside the pipette

Perfusion at the electrode tip is possible with the **PE Series holders**. They include an additional port in-line with the glass bore allowing for the insertion of microbore tubing into the pipette. This port includes a threaded cap and seal for up to 1 mm diameter tubing. See the reports referenced below for information on the microperfusion technique.

#### PE30W SERIES Holders

Order #	Wire/Pellet	Body Style	Port	Connector	Glass OD (mm)	Model
W4 64-1761	Wire	Straight	Yes	1 mm Pin	1.0	PE30W-A10P
W4 64-1762					1.2	PE30W-A12P
W4 64-1763					1.5	PE30W-A15P
W4 64-1764					1.7	PE30W-A17P
W4 64-1765					2.0	PE30W-A20P
W4 64-1766				BNC	1.0	PE30W-B10P
W4 64-1767					1.2	PE30W-B12P
W4 64-1768					1.5	PE30W-B15P
W4 64-1769					1.7	PE30W-B17P
W4 64-1770					2.0	PE30W-B20P
W4 64-1771				1 mm pin	1.0	PE30W-T10P
W4 64-1772				Threaded	1.2	PE30W-T12P
W4 64-1773				Collar	1.5	PE30W-T15P
W4 64-1774					1.7	PE30W-T17
W4 64-1775					2.0	PE30W-T20P

