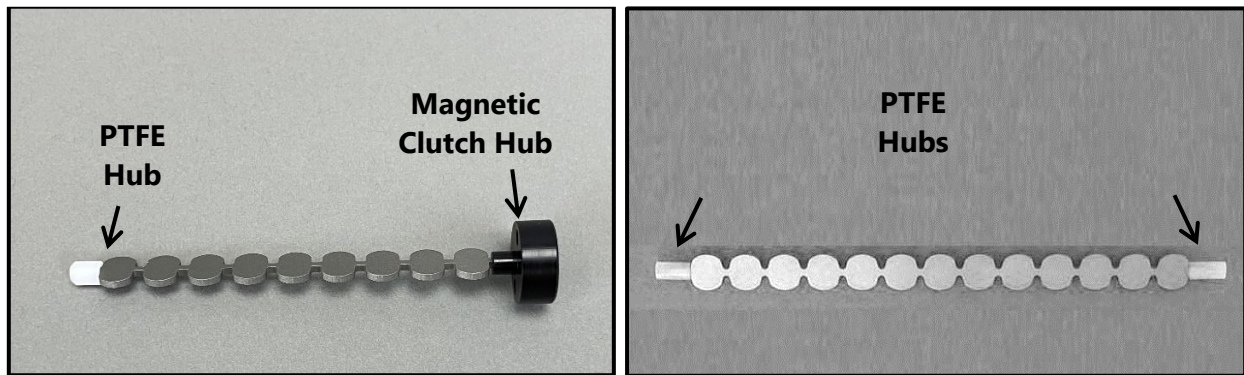


**Magnetic Clutch or Tumble Style Bubble Paddle Hubs:
Replacement or Adjustment**

Replacement Bubble Paddles or parts of the Bubble Paddle are available from V&P Scientific.



On left: Magnetic Clutch Style with one Magnetic Clutch Hub and one PTFE Hub

On right: Tumble Style with 2 PTFE hubs

Replacement of Glass Bearing of Magnetic Clutch Hub- entire Magnetic Clutch Hub is also available.

- 1) Remove Magnetic Clutch Bubble Paddle from Reservoir.
- 2) Remove Bubble Paddle from Clutch Hub by pulling straight out. Do not twist or angle.
- 3) Remove worn glass ball from Clutch Hub by pressing a thin diameter metal probe into axle part of Clutch Hub. A drill press is helpful in this step.
- 4) Press replacement glass ball into hole from other flat side.

Adjustment of PTFE Hub for individual reservoir (Magnetic Clutch and Tumble styles)

- 1) Remove small PTFE hub from end of Paddle.
- 2) Using a razor blade trim the hub so that the Bubble Paddle rotates freely in Reservoir but does not move laterally more than 1.5mm.
- 3) Trim in small slices so that too much is not removed (replacement PTFE Hubs are available).