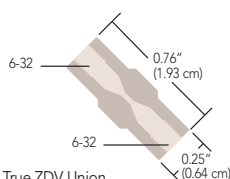
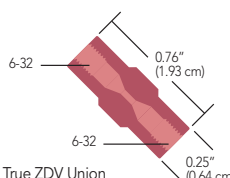


## MicroTight® Connectors for Capillary Tubing

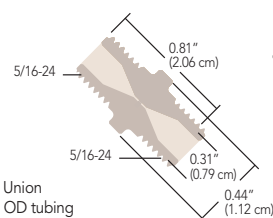
Connect two pieces of capillary tubing with these Upchurch Scientific® PEEK MicroTight Connectors. The True ZDV Unions allow two pieces of tubing to connect directly to each other — using the included gauge plug to ensure proper alignment. The standard union and elbow both feature a 0.006" (0.150 mm) thru-hole, adding only a small amount of additional flow-path volume to help ensure proper chromatographic results. For MicroTight unions designed for UHPLC applications, see page 37.



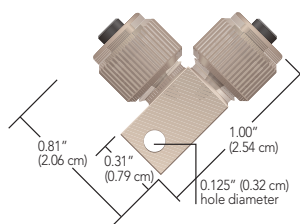
**P-720**  
MicroTight True ZDV Union  
for use with MicroTight Sleeves  
with fittings and gauge plug included



**P-771**  
MicroTight True ZDV Union  
for 1/32" OD tubing  
with fittings and gauge plug included



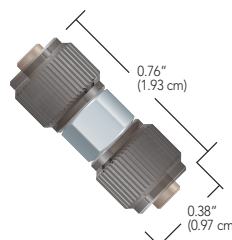
**P-772**  
MicroTight Union  
for 360 µm OD tubing  
with fittings included



**P-874**  
MicroElbow for  
MicroTight Tubing Sleeves  
with fittings included

## Conductive MicroTight Union

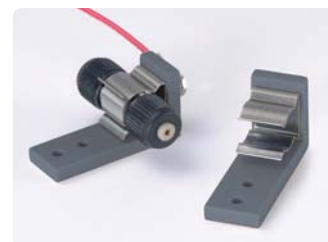
The Upchurch Scientific Conductive MicroTight Union manufactured by IDEX Health & Science provide an excellent opportunity to introduce voltage into an electrospray or capillary electrophoresis system. With an extremely low internal volume of 16 nL, this union can be placed inline with 360 µm OD capillary tubing. Mount and apply voltage to these unions using our Insulating Mounting Bracket below.



**M-572**  
Conductive MicroTight Union  
for 360 µm OD tubing  
with fittings and Capsule Union included

## Insulating Mounting Bracket

Use our Insulating Mounting Bracket to easily integrate the Conductive MicroTight Union (shown above) or our Conductive Mini MicroFilters (on page 162) into your system or lab.



Insulating Mounting Bracket, shown with lead wire and Conductive MicroTight Union, not included.

The product snaps into place. Voltage from your lead wire is conducted through the attaching stainless steel nut and screw (included), then onto the mounted product via the stainless steel clip.

The bracket's base includes two holes (#2 screw clearance) for easy mounting onto any lab surface. Dimensions are 1.25" L x 0.45" W x 0.63" H.

## APPLICATION NOTE

For an example of using a Conductive MicroTight Union in a pressure driven ion preconcentration application see: "Self-Sealed Vertical Polymeric Nanoporous Junctions for High Throughput Nanofluidic Applications."

Sun Jae Kim and Jong Yoon Han. *Analytical Chem.* 2008, 80: 3507-3511.

Part No.	Description	Threads	Includes	Thru-hole	Swept Volume	Pressure Rating
<b>MICROTIGHT UNIONS</b>						
★ P-720	PEEK True ZDV Union for MicroTight Sleeves	6-32 Coned	(2) F-125, (1) P-553	N/A	N/A	4,000 psi (276 bar)
★ P-771	PEEK True ZDV Union for 1/32" OD Tubing	6-32 Coned	(2) F-126S, (1) P-553	N/A	N/A	5,000 psi (345 bar)
★ P-772	PEEK Union for 360 µm OD Tubing	5/16-24 Coned	(2) F-152, (2) P-416BLK	0.006" (0.150 mm)	5 nL	5,000 psi (345 bar)
P-874	PEEK MicroElbow for MicroTight Sleeves	5/16-24 Coned	(2) F-172, (2) P-416	0.006" (0.150 mm)	20 nL	4,000 psi (276 bar)
<b>REPLACEMENT GAUGE PLUGS (TO ACHIEVE TRUE ZDV CONNECTIONS WITH OUR P-720 AND P-771 UNIONS)</b>						
P-553	Gauge Plug, Delrin®	6-32 Coned	N/A	N/A	N/A	N/A
<b>CONDUCTIVE MICROTIGHT UNIONS</b>						
M-572	Conductive Union for 360 µm OD Tubing, PEEK/SST	5/16-24 Coned	(2) F-152, (2) P-416BLK, (1) M-128NF	0.011" (0.279 mm)	16 nL	5,000 psi (345 bar)
<b>INSULATING MOUNTING BRACKET</b>						
M-447	Insulating Mounting Bracket	N/A	N/A	N/A	N/A	N/A