



THE
ARTHUR
G. RUSSELL
CO., INC.

UNI^{GRIP}[®] BRASS FITTINGS FOR PLASTIC TUBING

UniGrip Fittings for plastic tubing have a number of advantages over other plastic tube fittings.

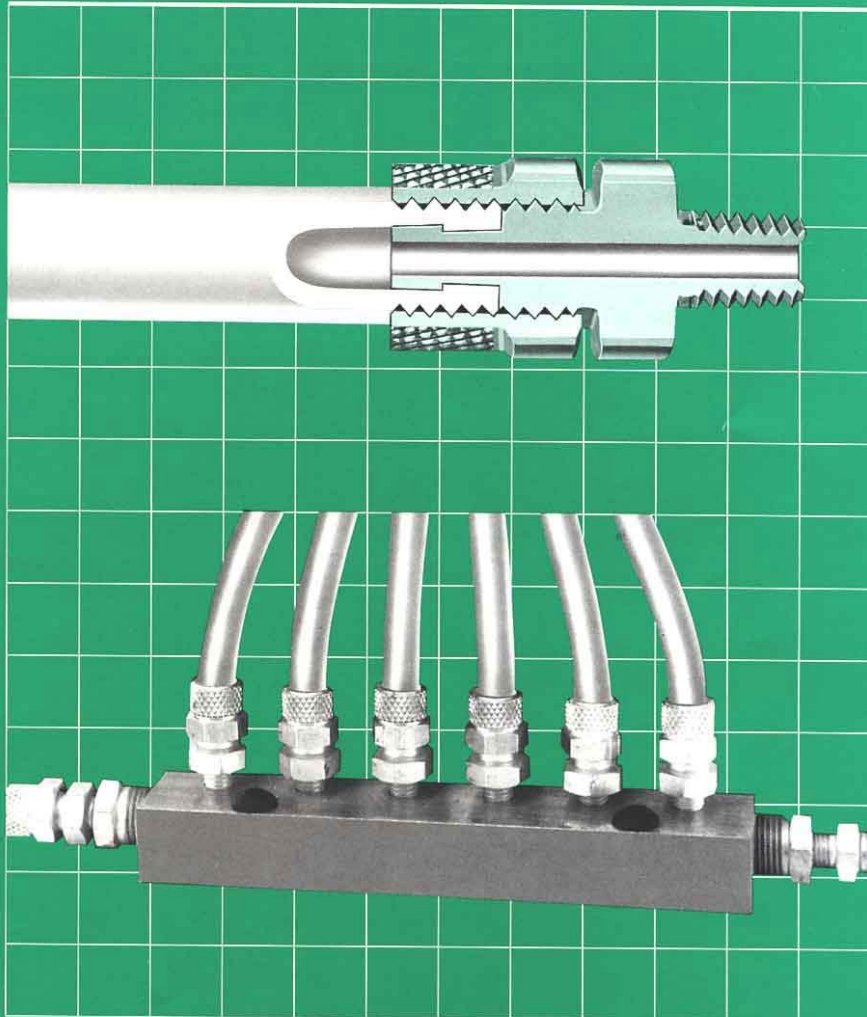
One important advantage is that they are easier to assemble and disconnect. The tube is easily pushed onto the taper and the nut need only be finger-tight to create an air-tight seal on soft tubing. The tube is easily removed from the tapered body without cutting the tube. It can, therefore, be disconnected and reconnected as many times as desired without shortening or damaging the tube.

UniGrip Fittings have a simple, two-piece construction requiring no gasket or compression sleeve. The fitting does not create undue tension on the tubing.

UniGrip Fittings are usable with any soft tubing with $\frac{1}{4}$ " O.D., $\frac{1}{8}$ " I.D.

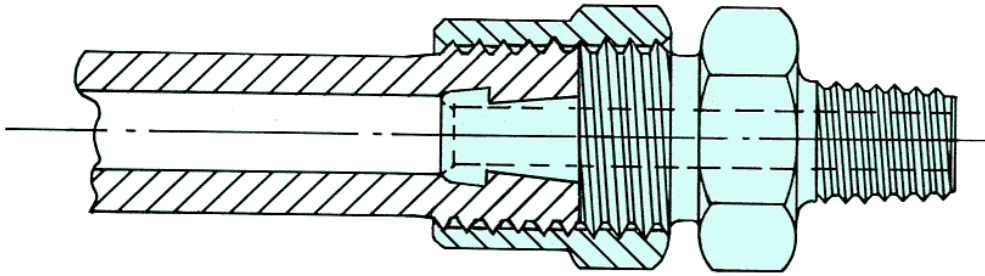
The #10-32 tapered male thread allows 360° orientation of tee and cross type fittings and is designed for use with standard straight #10-32 female threads. The tapered thread is stronger since there is no undercut at the base of the thread.

UniGrip Fittings for plastic tubing can be used interchangeably with most other fittings on new or existing equipment.



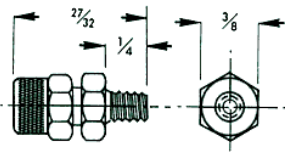
UNIGRIP®

BRASS FITTINGS FOR PLASTIC TUBING

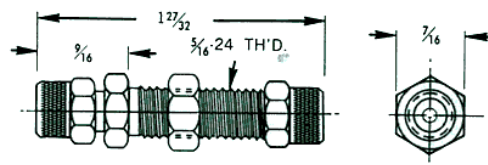


Legend for numbering system of UNIGRIP Fittings

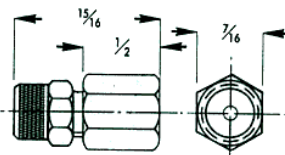
Name	Male	Female
Tubing End	No. 1	
#10-32	No. 3	No. 2
1/8" NPT	No. 5	No. 4
1/16" NPT	No. 7	No. 6



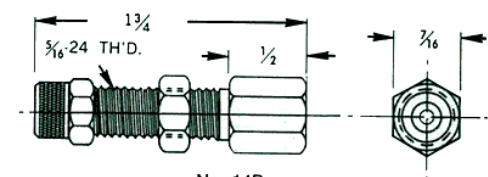
No. 13
Tubing to #10-32 male thread.



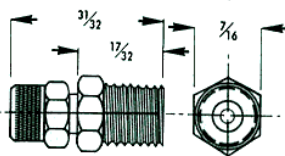
No. 11B
Bulkhead Fitting. Tubing to tubing.



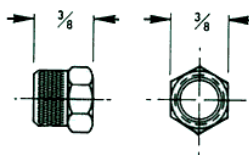
No. 14
Tubing to 1/8" NPT (female).



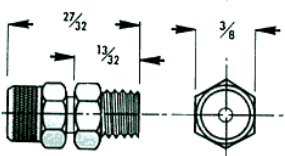
No. 14B
Bulkhead Fitting. Tubing to 1/8" NPT (female).



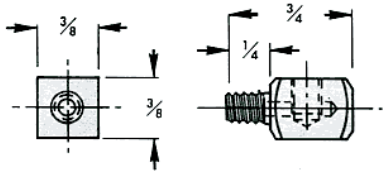
No. 15
Tubing to 1/8" NPT (male).



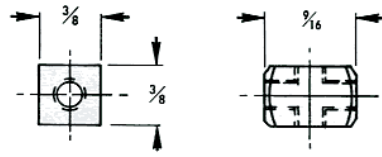
No. N1
Tubing clamp nut.
5/16"-24 thread.



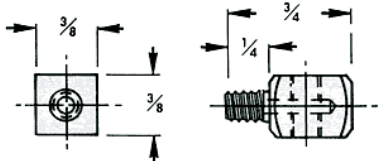
No. 17
Tubing to 1/16" NPT (male).



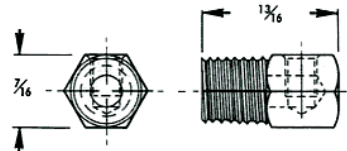
No. 32-1 Elbow — #10-32 male thread to one #10-32 female thread.



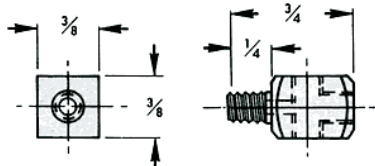
No. 02-4 Cross Coupling — Four #10-32 female threads.



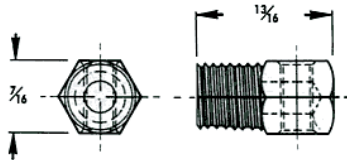
No. 32-2 Tee — #10-32 male thread to two #10-32 female threads.



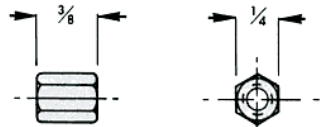
No. 52-1 Elbow — 1/8" NPT (male) to one #10-32 female thread.



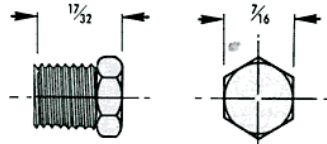
No. 32-3 Cross — #10-32 male thread to three #10-32 female threads.



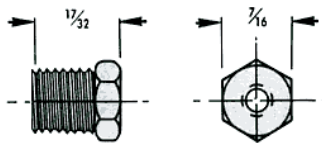
No. 52-2 Tee — 1/8" NPT (male) to two #10-32 female threads.



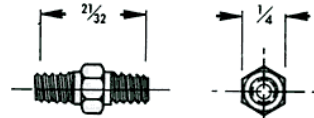
No. 22 Hex Coupling — #10-32 female thread to #10-32 female thread.



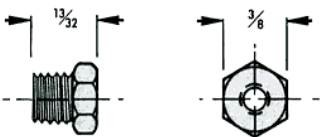
No. 50 Hex Plug — 1/8" NPT (male).



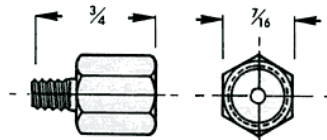
No. 25 Reducer Bushing — 1/8" NPT (male) to #10-32 female thread.



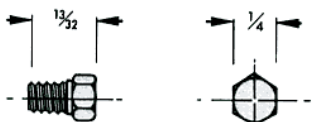
No. 33 Hex Nipple — #10-32 male thread to #10-32 male thread.



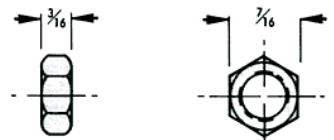
No. 27 Reducer Bushing — 1/16" NPT (male) to #10-32 female thread.



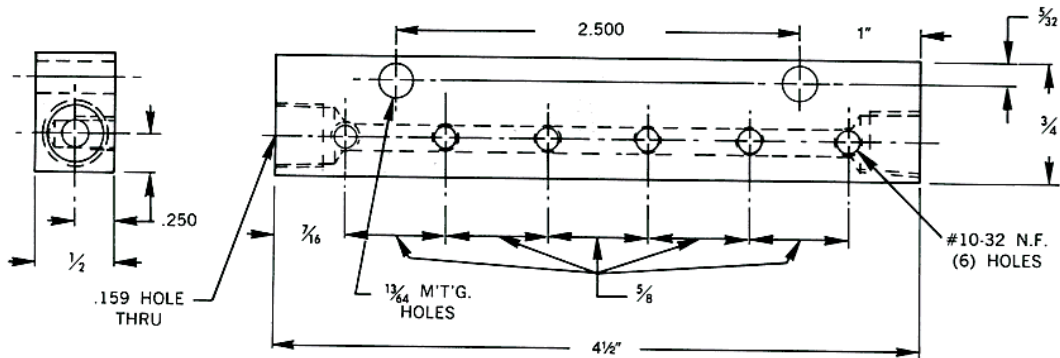
No. 34 Adapter — #10-32 male thread to 1/8" NPT (female).



No. 30 Hex Plug — #10-32 male thread.



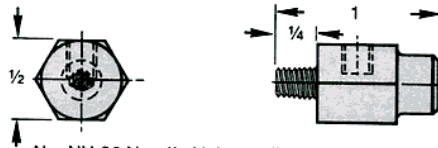
No. J1 Bulkhead Jam Nut — 3/16"-24 thread.



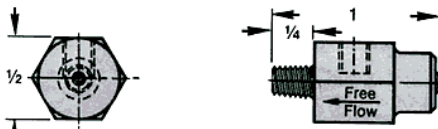
No. 6-24M-2 Manifold — Two $\frac{1}{8}$ " NPT (female) to six #10-32 female threads. $\frac{1}{16}$ " NPT (female) at each end. Can be cut to any desired length. Longitudinal hole is correct size for #10-32 tap. Material: Black anodized aluminum (Brass available on request)

UNIGRIP® Air Control Valves

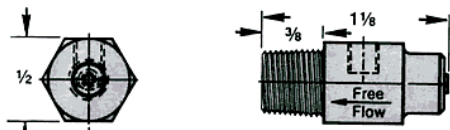
UniGrip Air Control Valves are very compact, miniaturized valves made of brass and stainless steel. The tapered male threads provide two distinct advantages: the valves can be oriented 360° in mounting and, since there is no undercut at the base of the threads, the problem of the bodies snapping off is eliminated. The air flow through the valves is adjusted with a hex socket wrench — an easy tamper-proof adjustment.



No. NV-32 Needle Valve — #10-32 male thread to one #10-32 female thread.



No. FC-32 Flow Control Valve — #10-32 male thread to one #10-32 female thread.



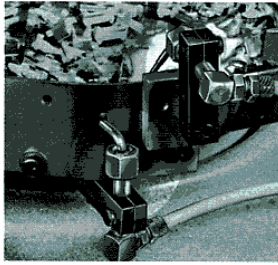
No. FC-52 Flow Control Valve — $\frac{1}{8}$ " NPT (male) to one #10-32 female thread.

Flexible Plastic Tubing

V- $\frac{1}{4}$ " Vinyl Tubing — Durable vinyl plastic tubing recommended for applications requiring high flexibility. Maximum working pressure: 120 psi.



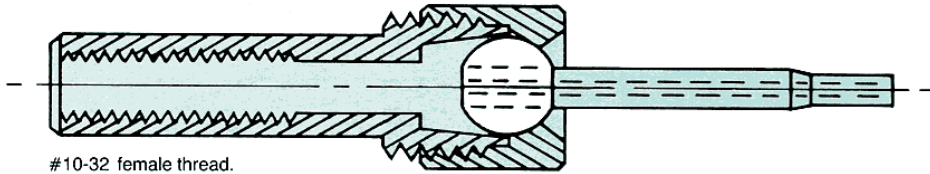
UNI^{GRIP} Air Jets



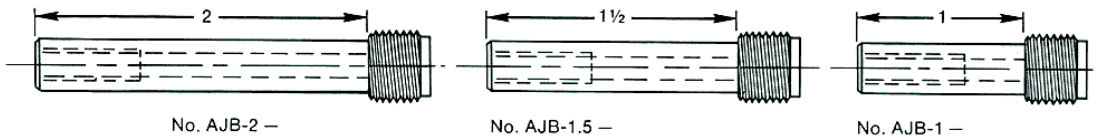
UniGrip Air Jets are a standardized line of miniature air nozzles used where direct air assist is required. All parts are made of brass with the exception of a steel ball into which the nozzle tube is pressed. With the ball allowing the nozzle to be pivoted, the direction of the air stream can easily be adjusted with the nut finger tight. The ball and socket is designed so final tightening of the nut does not change the adjustment. The orifice of the nozzle is swaged to .030" in

diameter to produce an efficient high velocity air stream. The base has a standard straight #10-32 female thread for attaching UniGrip Tube Fittings. Complete assemblies are available or the components can be purchased separately and the elements assembled to suit particular requirements.

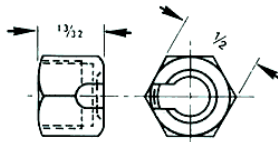
The photo at left shows two UniGrip Air Jets mounted in Air Jet Holders and attached to a VibroBlock Vibratory Bowl.



Air Jet Base*

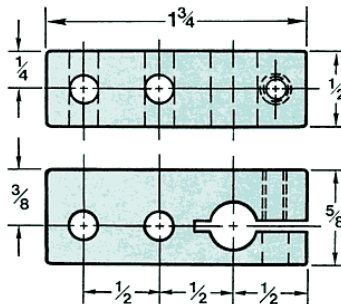


Nut*



No. N2-2 —
#7/16-20 female thread.

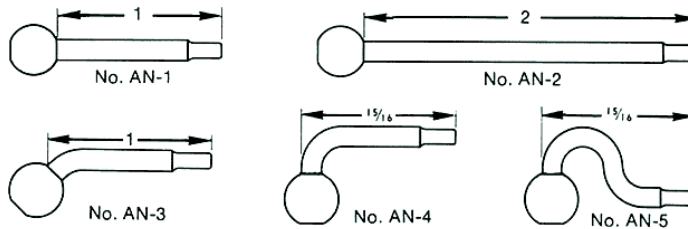
Air Jet Holder*



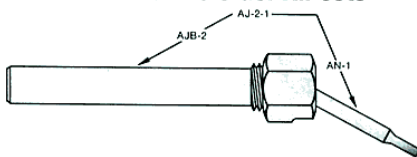
No. AJH — Largest hole is for inserting base of jet, 4 #19-drill through holes for mounting, and #8-32 female thread for tightening base in holder. Holder is 1/2" x 5/8".

*All parts shown actual size.

Air Nozzle*



How to Order Air Jets



Components of air jets can be ordered separately using the individual part numbers or complete jets can be ordered using combinations of the part numbers. All complete jets carry designations beginning with AJ, followed by the numerical portion

of the part number of the base, followed by the numerical portion of the part number of the nozzle. An example is shown at right. The Air Jet Holder (AJH) must be ordered separately.