

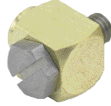
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*For ease in construction of pneumatic logic control and fluid power systems, you will find in the Clippard line an extensive choice of useful fittings. Clippard fittings are designed for the greatest flexibility, practical usefulness and for savings in time, cost and space.*

### *Why Clippard Miniature Fluid Power Fittings?*



While others were thinking about large fittings, Clippard was thinking big about smaller fittings. Smaller valves and cylinders created the need for smaller fittings. Clippard was the first to develop ports utilizing the #10-32 thread. This thread has become an industry standard in the marketplace. Because of their compact size, #10-32 fittings when properly gasketed and/or sealed with anaerobic sealant, can withstand pressures well beyond those required for pneumatic applications.

All Clippard fittings are made to the same high standards as our valves and cylinders. Precision machining and finishing processes insure that all fittings are held to the tightest tolerances. What does this mean to you? It means quality... quality that leads to ease in assembly, and consistent, trouble free performance.

Clippard precision fittings will save you time, space, and money when designing versatile, productive, trouble free, pneumatic circuits. Our endless variety of fittings insure that you find just the right "fit" when plumbing pneumatic circuits or assemblies. These fittings are small in size but large in performance, allowing for streamlining of pneumatic assemblies and eliminating the need for larger, more expensive, cumbersome fittings.



### *Options*

Clippard brass fittings come standard with a bright chromate finish for added corrosion resistance. Most brass fittings are also available with nickel plating. Clippard slip-on fittings come standard with electroless nickel plating. Some fittings are also available with metric threads. Refer to each item in the catalog for available options.

To order a brass fitting with the nickel plating option, add a -NP following the catalog fitting number. To order a fitting with the M5 metric thread option, add a -M5 following the catalog fitting number.

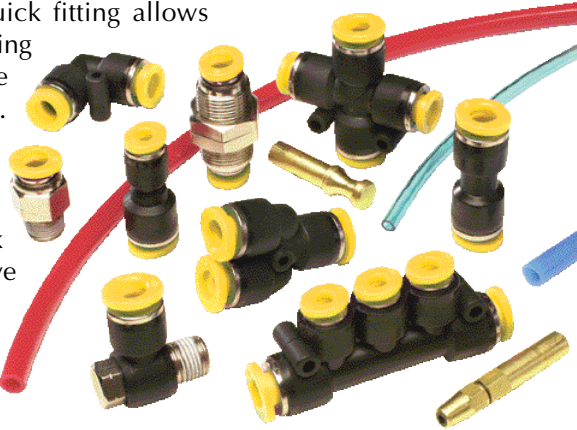


# PUSH-QUICK FITTINGS



Clippard Push-Quick Fittings provide a simple method of connecting pneumatic components to each other and system piping. They are designed for use with both flexible hose and stiff tubing made of nylon, urethane, polyethylene or polypropylene.

Push-Quick Fittings generally provide higher flows than barbed fittings. The Push-Quick fitting allows full flow through the hose/tubing I.D. with no smaller orifice required as in barb fittings. The chart shows the comparison between barb and push in fittings for various tubing/hose sizes. Push-Quick Fittings are available in five sizes for 1/8", 5/32", 6 mm, 1/4" and 3/8" O.D. tubing. The 5/32" fittings may also be used with 4 mm O.D. tubing.



**Pressure Range:** 0 - 150 psig @ 130° F

**Vacuum:** 0 - 29.5 in Hg

**Temperature Range:** 32 - 140° F

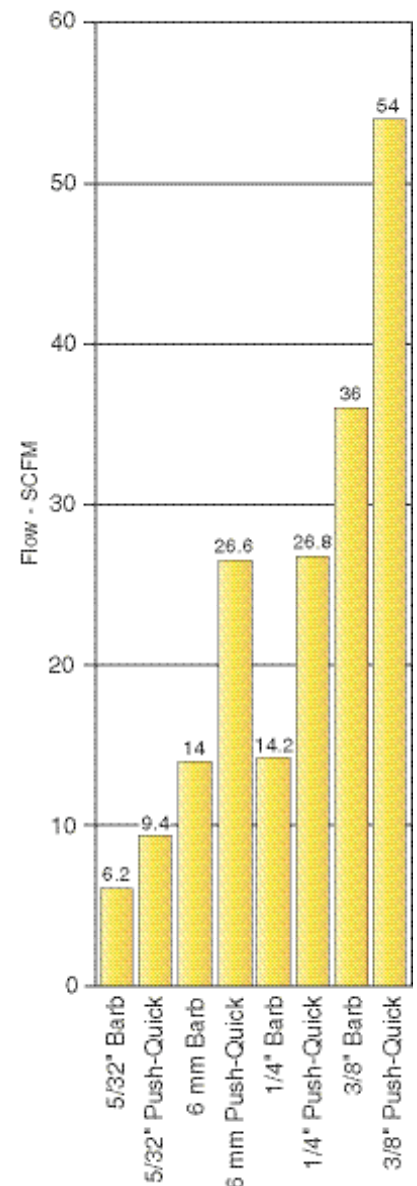
**Media:** Air, Non-corrosive water

**Tube Pull Out Force:** 20 lb. @ 75° F  
(non-pressurized)

**Burst Pressure:** 350 psig @ 75° F

**Materials:** Body - Plastic Resin  
Metal Stud - Nickel Plated Brass  
Gripper Ring - Stainless Steel  
Seals - Buna N

Barb vs Push-Quick Fittings  
Flow Comparison @ 100 psig



## Installation of Tubing into fitting

1. Slowly push a clean and perpendicularly cut tubing into the fitting until it comes to a dead stop.
2. Pull the tubing back gently until the Gripper Ring of the fitting grips onto the tubing and has a good seal.

## Removal of Tubing from fitting

1. Push in evenly on the two long oval sides of the Release Button.
2. Pull out the tubing while keeping the Release Button depressed.
3. To reuse the tubing; cut off the lodged portion of the previously used tubing evenly and perpendicularly.

## Installation of Pipe Fittings with Pre-Applied sealant

1. Tighten fitting by hand, then turn it 2 or 3 turns with a wrench until it reaches the desired torque listed.
2. If the fitting is used and the sealant coating is not in good condition, apply Teflon® sealant tape to the threads.

### Durometer (Hardness) Scale

Shore A	50	60	70	80	90	100	
Shore D	20	30	40	50	60	70	80



\* 6 mm size fittings have a green release button

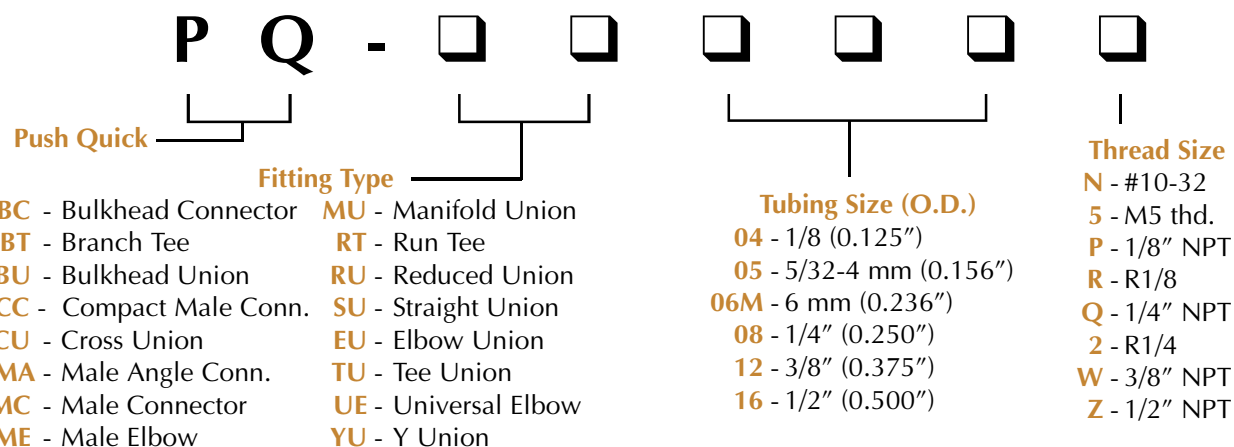
Thread Size	#10-32	1/8" NPT, R1/8	1/4" NPT, R1/4	3/8" NPT	1/2" NPT
Torque lb. - ft.	1.0 - 1.5	5.0 - 6.5	8.5 - 10.0	16.0 - 17.5	20 - 21.5

Tubing Material	Polyurethane	Polyethylene	Polypropylene	Nylon
Specified Size	+/- 0.005"	+/- 0.004"	+/- 0.004"	+/- 0.004"
Hardness (Durometer)	Shore A85 or higher	Shore D 44 or higher	Shore D 44 or higher	Shore D 44

see pages 313 through 318 for hose and tubing



# PUSH-QUICK FITTINGS









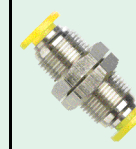
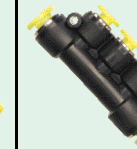
Threaded Port Fittings									
		Male Compact Connector CC	Male Connector MC	Male Elbow ME	Run Tee RT	Branch Tee BT	Universal Elbow UE	Male Angle Connector MA	Bulkhead Connector BC
1/8"	#10-32 1/8" NPT	PQ-CC04N PQ-CC04P		PQ-ME04N PQ-ME04P				PQ-MA04N PQ-MA04P	
5/32" (4 mm)	#10-32 M5 thd. 1/8" NPT R1/8 1/4" NPT	PQ-CC05N PQ-CC05P	PQ-MC05N PQ-MC055 PQ-MC05P PQ-MC05R PQ-MC05Q	PQ-ME05N PQ-ME055 PQ-ME05P PQ-ME05R PQ-ME05Q	PQ-RT05N PQ-RT055 PQ-RT05P PQ-RT05R	PQ-BT05N PQ-BT055 PQ-BT05P PQ-BT05R	PQ-UE05N PQ-UE055 PQ-UE05P PQ-UE05R	PQ-MA05N PQ-MA055 PQ-MA05P PQ-MA05R	PQ-BC05P PQ-BC05R
6 mm*	M5 thd. R1/8 R1/4		PQ-MC06M5 PQ-MC06MR PQ-MC06M2	PQ-ME06M5 PQ-ME06MR PQ-ME06M2	PQ-RT06M5 PQ-RT06MR PQ-RT06M2	PQ-BT06M5 PQ-BT06MR PQ-BT06M2	PQ-UE06M5 PQ-UE06MR PQ-UE06M2	PQ-MA06M5 PQ-MA06MR PQ-MA06M2	PQ-BC06MR PQ-BC06M2
1/4"	#10-32 1/8" NPT 1/4" NPT 3/8" NPT	PQ-CC08N PQ-CC08P PQ-CC08Q	PQ-MC08N PQ-MC08P PQ-MC08Q PQ-MC08W	PQ-ME08N PQ-ME08P PQ-ME08Q PQ-ME08W	PQ-RT08N PQ-RT08P PQ-RT08Q	PQ-BT08N PQ-BT08P PQ-BT08Q	PQ-UE08N PQ-UE08P PQ-UE08Q	PQ-MA08N PQ-MA08P PQ-MA08Q PQ-MA08W	PQ-BC08P PQ-BC08Q
3/8"	1/8" NPT 1/4" NPT 3/8" NPT	PQ-CC12Q PQ-CC12W	PQ-MC12P PQ-MC12Q PQ-MC12W	PQ-ME12P PQ-ME12Q PQ-ME12W	PQ-RT12P PQ-RT12Q PQ-RT12W	PQ-BT12P PQ-BT12Q PQ-BT12W	PQ-UE12Q PQ-UE12W	PQ-MA12P PQ-MA12Q PQ-MA12W	PQ-BC12Q PQ-BC12W
1/2"	1/4" NPT 3/8" NPT 1/2" NPT		PQ-MC16Q PQ-MC16W PQ-MC16Z	PQ-ME16Q PQ-ME16W PQ-ME16Z				PQ-MA16Q PQ-MA16W PQMA16Z	

\* 6 mm size fittings have a green release button.

Note: Fittings with pipe thread (NPT), R1/8 and R1/4 are supplied with pre-applied sealant.

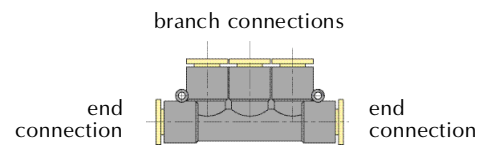
# PUSH-QUICK FITTINGS



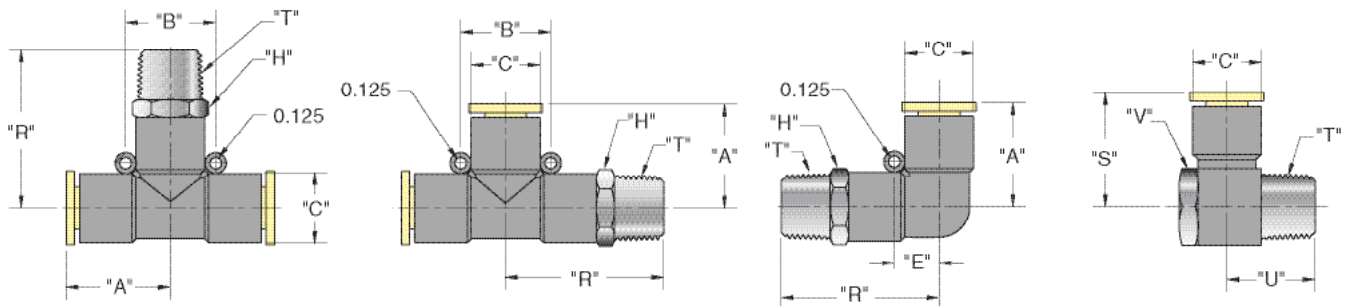
Non-Threaded Port Fittings	       							
	Straight Union SU	Reduced Union RU	Elbow Union EU	Tee Union TU	Y Union YU	Cross Union CU	Bulkhead Union BU	Manifold Union MU**
Tube Size								
1/8"	PQ-SU04			PQ-TU04		PQ-CU04		
5/32" (4 mm)	PQ-SU05	PQ-RU0504	PQ-EU05	PQ-TU05	PQ-YU05	PQ-CU05	PQ-BU05	PQ-MU0504
6 mm*	PQ-SU06M	PQ-RU06M05	PQ-EU06M	PQ-TU06M	PQ-YU06M	PQ-CU06M	PQ-BU06M	PQ-MU06M05
1/4"	PQ-SU08	PQ-RU0804 PQ-RU0805	PQ-EU08	PQ-TU08	PQ-YU08	PQ-CU08	PQ-BU08	PQ-MU0805
3/8"	PQ-SU12	PQ-RU1208	PQ-EU12	PQ-TU12	PQ-YU12	PQ-CU12	PQ-BU12	PQ-MU1208
1/2"	PQ-SU16	PQ-RU1612	PQ-EU16	PQ-TU16	PQ-YU16		PQ-BU16	

\* 6 mm size fittings have a green release button.

\*\* The first size listed in the part number are the end connections, the second size listed are the branch connections.



## Branch Tee - BT      Run Tee - RT      Male Elbow - ME      Universal Elbow - UE



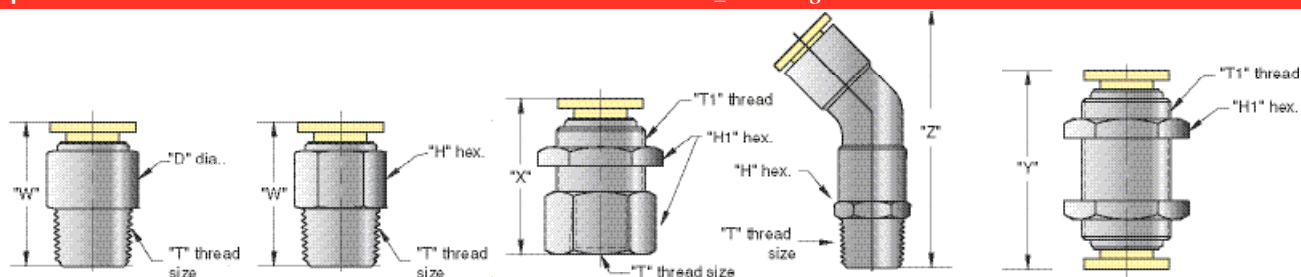
Tubing Size	Thread Size "T"	"A"	"B"	"C"	"E"	"H"	"R"	"S"	"U"	"V"
1/8"	#10-32	0.722"		0.410"	0.328"	7/16"	0.900"			
1/8"	1/8" NPT	0.722"		0.410"	0.328"	7/16"	0.980"			
5/32"	#10-32	0.722"	0.656"	0.410"	0.328"	7/16"	0.900"	0.820"	0.440"	5/16"
5/32"	M5 x 0.8	0.722"	0.656"	0.410"	0.328"	10 mm	0.900"	0.831"	0.449"	8 mm
5/32"	1/8" NPT	0.722"	0.656"	0.410"	0.328"	7/16"	0.980"	0.920"	0.570"	7/16"
5/32"	R1/8	0.722"	0.656"	0.410"	0.328"	10 mm	0.980"	0.921"	0.563"	10 mm
5/32"	1/4" NPT	0.722"	0.656"	0.410"	0.328"	7/16"	1.130"			
6 mm	M5 x 0.8	0.830"	0.740"	0.524"	0.370"	12 mm	1.030"	0.953"	0.500"	12 mm
6 mm	R1/8	0.830"	0.740"	0.524"	0.370"	12 mm	1.100"	0.976"	0.587"	12 mm
6 mm	R1/4	0.830"	0.740"	0.524"	0.370"	14 mm	1.140"	1.059"	0.654"	14 mm
1/4"	#10-32	0.840"	0.740"	0.524"	0.370"	1/2"	1.030"	0.940"	0.480"	1/2"
1/4"	1/8" NPT	0.840"	0.740"	0.524"	0.370"	1/2"	1.100"	0.990"	0.600"	1/2"
1/4"	1/4" NPT	0.840"	0.740"	0.524"	0.370"	9/16"	1.230"	1.120"	0.740"	9/16"
1/4"	3/8" NPT	0.840"	0.740"	0.524"	0.370"	11/16"	1.290"			
3/8"	1/8" NPT	1.100"	0.944"	0.720"	0.472"	11/16"	1.350"			
3/8"	1/4" NPT	1.100"	0.944"	0.720"	0.472"	11/16"	1.470"	1.320"	0.800"	11/16"
3/8"	3/8" NPT	1.100"	0.944"	0.720"	0.472"	11/16"	1.160"	1.550"	0.900"	11/16"
1/2"	1/4" NPT	1.160"		0.850"	0.570"	7/8"	1.550"			
1/2"	3/8" NPT	1.160"		0.850"	0.570"	7/8"	1.580"			
1/2"	1/2" NPT	1.160"		0.850"	0.570"	7/8"	1.670"			



# PUSH-QUICK FITTINGS

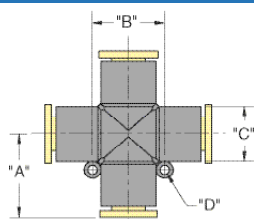
## NON-THREADED PORTS

Compact Connector - CC Male Connector - MC Bulkhead Connector - BC Male Angle Connector - MA Bulkhead Union - BU

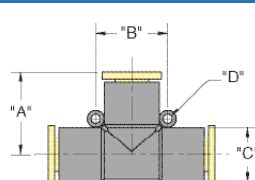


Tubing Size	Thread Size "T"	"D"	"H"	"H1"	"T1"	"W"	"X"	"Y"	"Z"
1/8"	#10-32	0.410"			7/16"	0.880"			
1/8"	1/8" NPT	0.410"			7/16"	0.860"			
5/32"	#10-32	0.410"	7/16"		7/16"	0.890"	0.820"	0.440"	5/16"
5/32"	M5 x 0.8		10 mm		10 mm	0.900"	0.830"	0.450"	8 mm
5/32"	1/8" NPT	0.410"	7/16"	5/8"	7/16"	0.840"	0.920"	0.570"	7/16"
5/32"	R 1/8		10 mm	14 mm	10 mm	0.840"	0.920"	0.563"	10 mm
5/32"	1/4" NPT				7/16"				
6 mm	M5 X 0.8		12 mm		12 mm	0.950"	0.953"	0.500"	12 mm
6 mm	R 1/8		10 mm	17 mm	12 mm	0.880"	0.976"	0.587"	12 mm
6 mm	R 1/4		14 mm	17 mm	14 mm	0.875"	1.059"	0.654"	14 mm
1/4"	#10-32	0.470"	1/2"		1/2"	0.913"	0.940"	0.480"	1/2"
1/4"	1/8" NPT	0.470"	1/2"	3/4"	1/2"	0.913"	0.990"	0.600"	1/2"
1/4"	1/4" NPT	0.530"	9/16"	3/4"	9/16"	0.965"	1.120"	0.740"	9/16"
1/4"	3/8" NPT		11/16"		11/16"	0.965"			
3/8"	1/8" NPT		11/16"		11/16"	1.280"			
3/8"	1/4" NPT	0.670"	11/16"	15/16"	11/16"	1.342"	1.320"	0.800"	11/16"
3/8"	3/8" NPT	0.670"	11/16"	15/16"	11/16"	1.241"	1.320"	0.900"	11/16"
1/2"	1/4" NPT		7/8"		7/8"	1.380"			
1/2"	3/8" NPT		7/8"		7/8"	1.320"			
1/2"	1/2" NPT		7/8"		7/8"	1.320"			

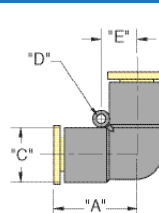
Cross Union - CU



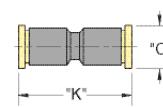
Tee Union - TU



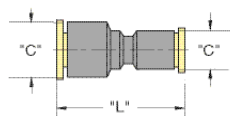
Elbow Union - EU



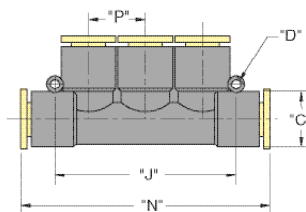
Straight Union - SU



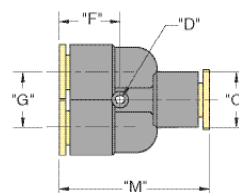
Reduced Union - RU



Manifold Union - MU



Y Union - YU



Tubing Size	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"J"	"K"	"L"	"M"	"N"	"P"
1/8"	0.710	0.560	0.420	0.080					1.240				
5/32-4 mm	0.722	0.656	0.410	0.125	0.328	0.512	0.517	1.608	1.239	1.230	1.318	2.312	0.531
6 mm	0.830	0.740	0.524	0.125	0.370	0.568	0.531	1.608	1.500	1.367	1.495	2.435	0.531
1/4"	0.840	0.740	0.524	0.125	0.370	0.604	0.531	1.608	1.500	1.666	1.495	2.435	0.531
3/8"	1.100	0.944	0.720	0.125	0.472	0.740	0.720	1.850	1.851	1.666	2.017	2.312	0.531
1/2"	1.130	1.120	0.850	0.100	0.570	0.780	0.840		1.810	1.810	2.070		

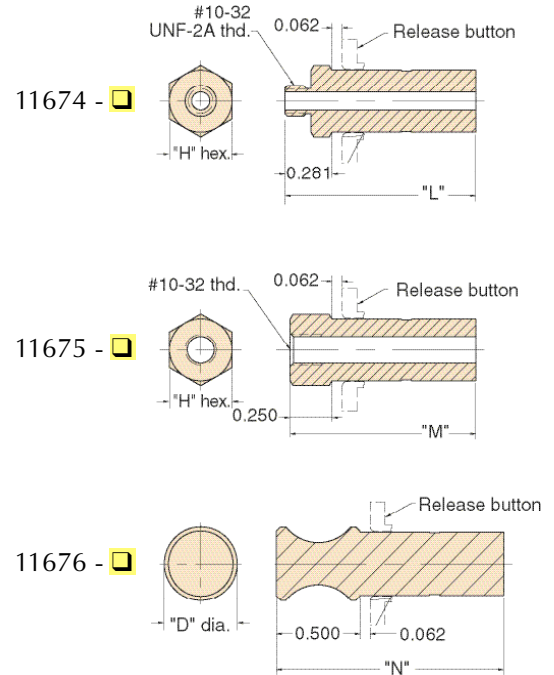


## Push-Quick Fitting Adapters

Clippard offers a variety of accessories that are designed for use with Push-Quick Fittings. These include special #10-32 threaded adapters in both male (p/n 11674) and female (p/n 11675) thread configurations and adapters that can be used to plug a Push-Quick fitting.

The threaded adapters insert into Push-Quick Fittings and provide either a male or female thread that can be used to mount any Clippard product with a #10-32 threaded inlet. This allows the direct attachment of the product to a Push-Quick Fitting without hoses or additional fittings.

Part Dash #	Tubing Size	"D"	"H"	"L"	"M"	"N"
- 05	5/32"	0.312"	1/4"	0.993"	0.962"	1.212"
- 08	1/4"	0.312"	1/4"	1.003"	0.972"	1.222"
- 12	3/8"	0.437"	3/8"	1.143"	1.112"	1.362"



**Figure 1** shows an MAV-3 3-Way Valve connected to a PQ-RT05P Run Tee using a 11674-05 Adapter. In this example, the Run Tee is connected to a 1/8" NPT supply pipe.

**Figure 2** shows an IND-1M-WH Pressure Indicator connected to a PQ-TU08 Tee Union using a 11675-08 Adapter. If one of the branches of a Push-Quick Fitting is to be used as a temporary pressure gauge port, the 11676 series of Plugs can be used when the gauge is not in place. Plugs may also be used if Push-Quick Fitting branches are intended for future additions to the circuit, but have no current need.

**Figure 3** shows a PQ-CU Cross Union with one branch plugged with a 11676-08 Plug.



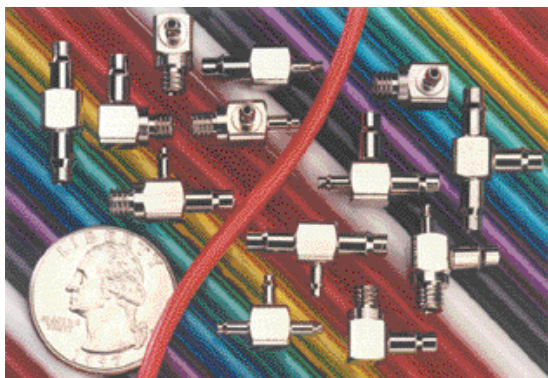
## NEW! Push-Quick Fittings with Quick-Connect Ports Available

New Quick-Connect fittings are available which combine the quick, easy functionality of the Push-Quick series with the flexibility and security of the Quick-Connect series.

See page 307 for complete details.



# MINIMATIC® SLIP-ON FITTINGS



Minimatic slip-on fittings provide a flexible, easy alternative to ferrule and push-to-connect design fittings.

Clippard Minimatic slip-on fittings are designed to be used with Clippard urethane hose. The flexibility and strength of urethane hose and the compact design of the fittings are ideal for pneumatic applications where convenience and size are considerations. The Minimatic slip-on fitting used with Clippard urethane hose will provide a leak free connection that will hold well beyond the working pressure of the hose without the need for additional clamps.

Minimatic slip-on fittings are available in a wide variety of

configurations in a number of styles including tee, connectors, crosses, swivel, and universal. Barb sizes can be mixed on the same fitting for applications requiring multiple tubing sizes. The electroless nickel plating of Minimatic slip-on fittings provides corrosion resistance in applications involving high moisture, while enabling the fittings to retain their original, lustrous appearance.

## Features

- Single barb design for quick and easy positive seal
- Miniature size provides low profile
- Multiple configurations for every need
- Electroless nickel plating
- Available with 1/16", 3/32" or 1/8" hose barb
- Available with #10-32 thread and 1/8" NPT
- Holds to the burst pressure of polyurethane hose

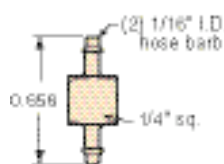
## CONNECTOR FITTINGS

**Material:** Brass electroless nickel plated

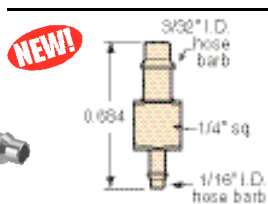
**Gasket:** Buna-N gasket included with #10-32 threads except when ordered in bulk

### Hose-to-Hose Connectors

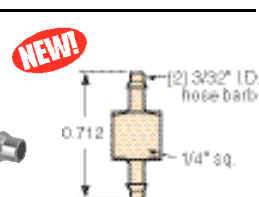
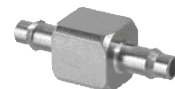
**C22**



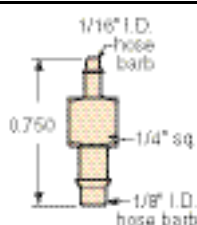
**C32**



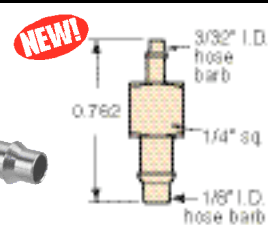
**C33**



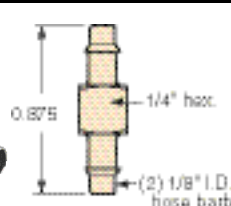
**C42**



**C43**



**C44**

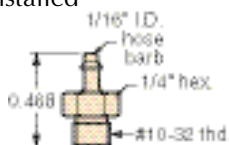


### #10-32 to Hose Connectors

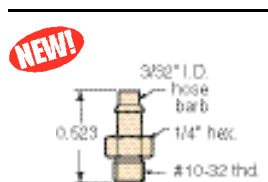
**CT2**



Gasket comes pre-installed



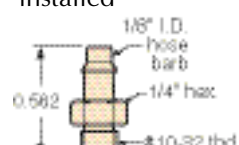
**CT3**



**CT4**



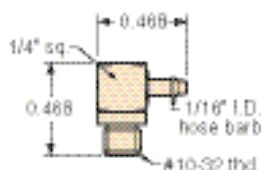
Gasket comes pre-installed



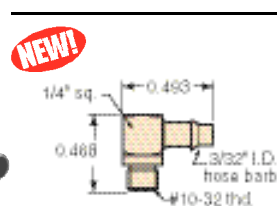
**CT0-2**



Gasket included. Not installed



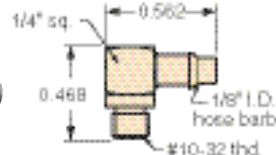
**CT0-3**



**CT0-4**



Gasket included. Not installed





## "T" FITTINGS

### Hose to Hose "T" Fittings

**Material:** Brass electroless nickel plated

**Gasket:** Buna-N gasket included with #10-32 threads except when ordered in bulk

<b>T42-4</b>  	<b>T44-2</b>  	<b>T44-4</b>  
<b>T22-2</b>  	<b>T22-4</b>  	<b>T42-2</b>  
<b>T33-3</b> <b>NEW!</b>  	<b>T33-4</b> <b>NEW!</b>  	<b>T44-3</b> <b>NEW!</b>  

### #10-32 to "T" Fittings

**Gasket:** Buna-N gasket included (not installed)

<b>TT0-202</b>  	<b>TT0-303</b> <b>NEW!</b>  	<b>TT0-402</b>  
<b>TT0-404</b>  	<b>TT2-2</b>  	<b>TT3-3</b> <b>NEW!</b>  
<b>TT2-4</b>  	<b>TT4-2</b>  	<b>TT4-4</b>  



# MINIMATIC® SLIP-ON FITTINGS

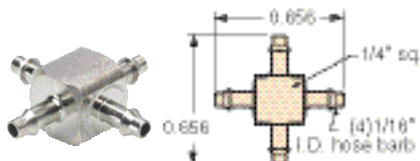
## "X" FITTINGS

### Hose to Hose "X" Fittings

**Material:** Brass electroless nickel plated

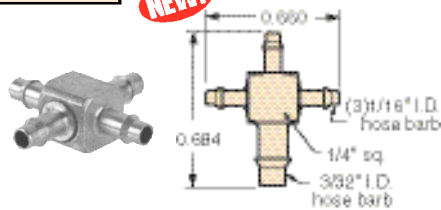
**Gasket:** Buna-N gasket included with #10-32 threads except when ordered in bulk

**X22-202**



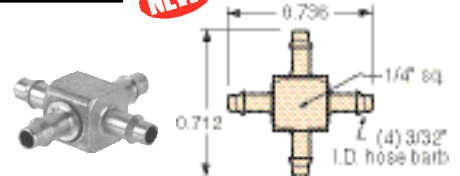
**X32-202**

**NEW!**

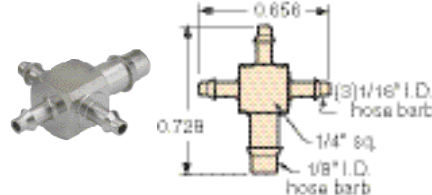


**X33-202**

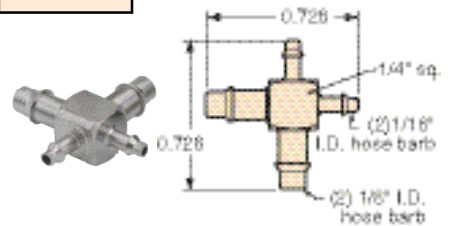
**NEW!**



**X42-202**

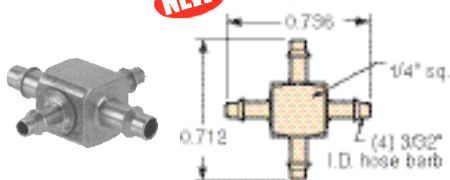


**X42-402**



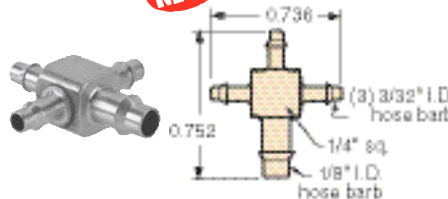
**X33-303**

**NEW!**

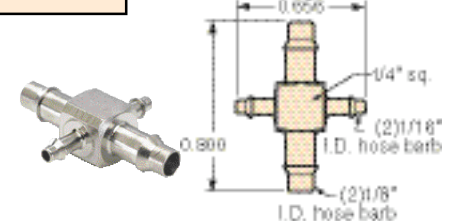


**X43-303**

**NEW!**

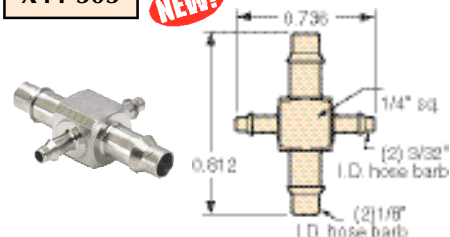


**X44-202**

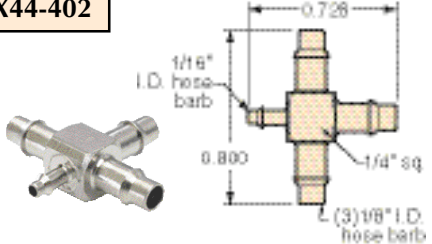


**X44-303**

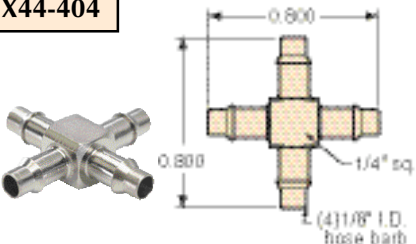
**NEW!**



**X44-402**



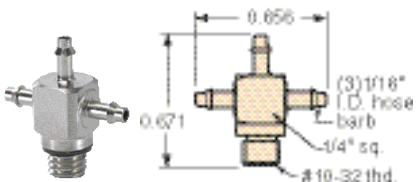
**X44-404**



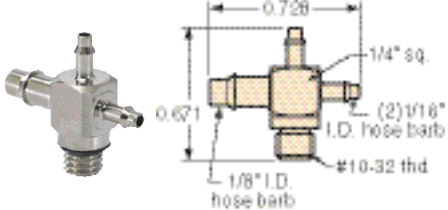
### #10-32 to Hose "X" Fittings

**Gasket:** Buna-N gasket included (not installed)

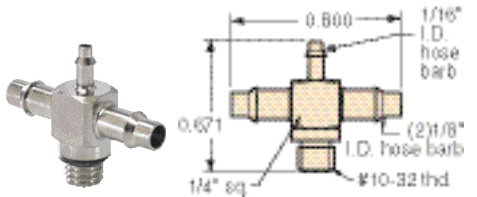
**XT2-202**



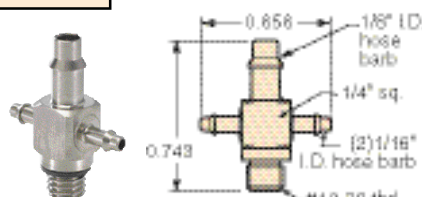
**XT2-402**



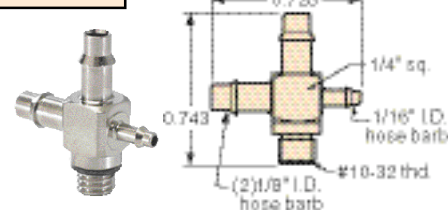
**XT2-404**



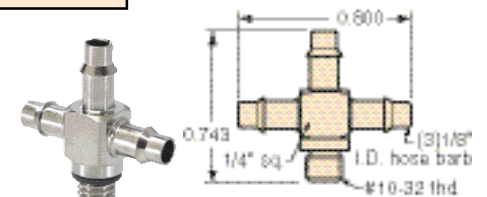
**XT4-202**



**XT4-402**



**XT4-404**



## UNIVERSAL FITTINGS

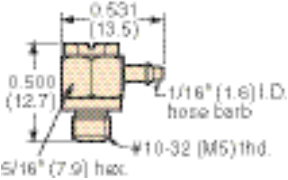
Buna-N o-ring included with universal fittings

**Material:** Brass electroless nickel plated

**Gasket:** Buna-N gasket included with #10-32 threads except when ordered in bulk

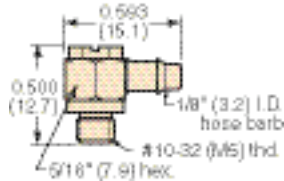
UT0-2

UT0-2-M5



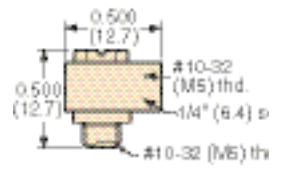
UT0-4

UT0-4-M5



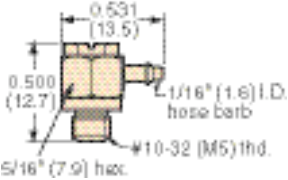
UT0-F

UT0-F-M5

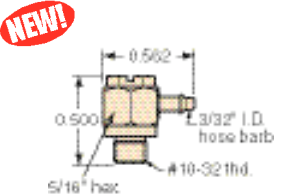


UT0-2

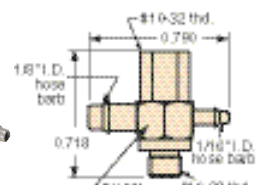
UT0-2-M5



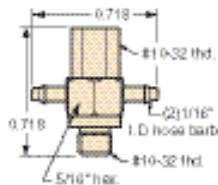
UT0-3



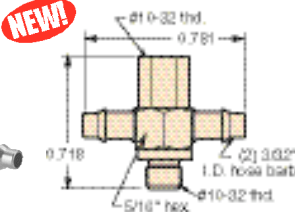
UTF-4002



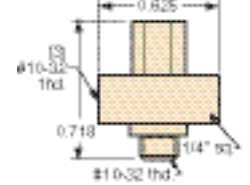
UTF-2002



UTF-3003

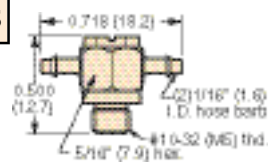


UTF-F0F

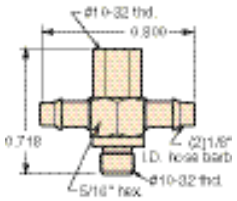


UT0-2002

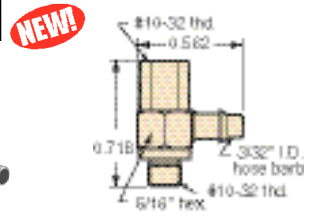
UT0-2002-M5



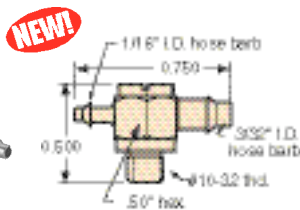
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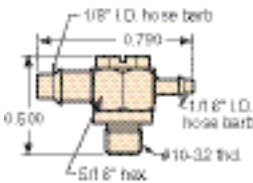
UTF-3



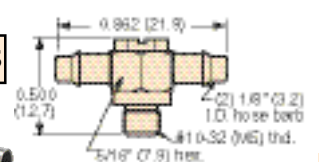
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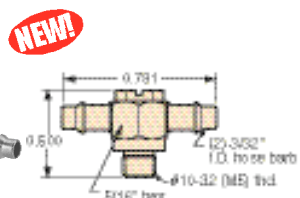
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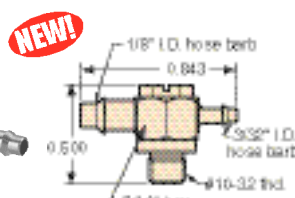
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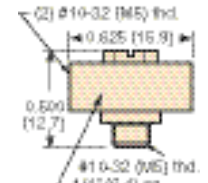
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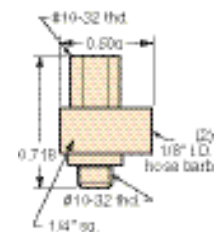
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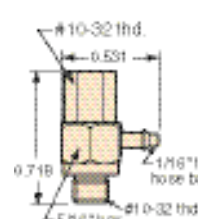
UT0-F0F



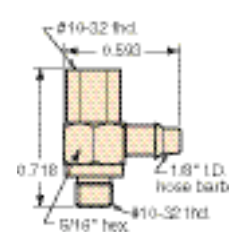
UTF-F



UTF-2



UTF-4







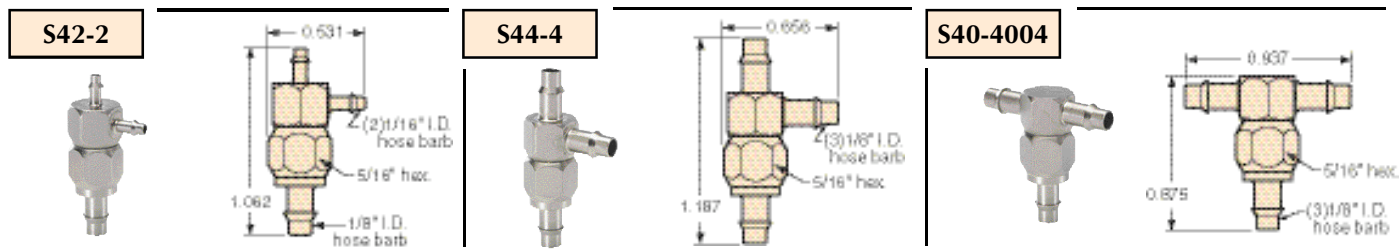
# MINIMATIC® SLIP-ON FITTINGS

## SWIVEL FITTINGS

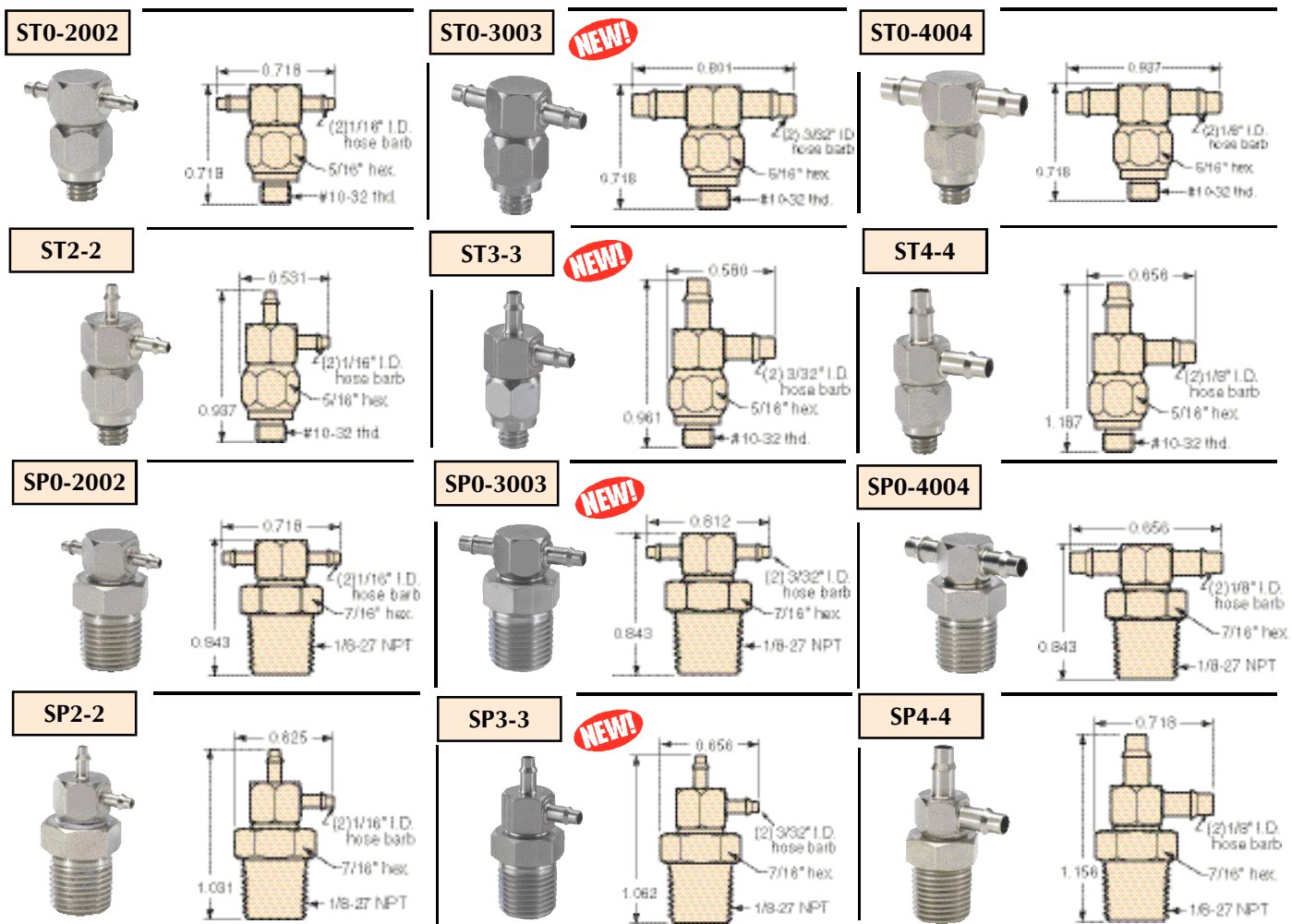
### Hose to Hose Swivel "T" Fittings

**Material:** Brass electroless nickel plated

**Gasket:** Buna-N gasket included with #10-32 threads except when ordered in bulk

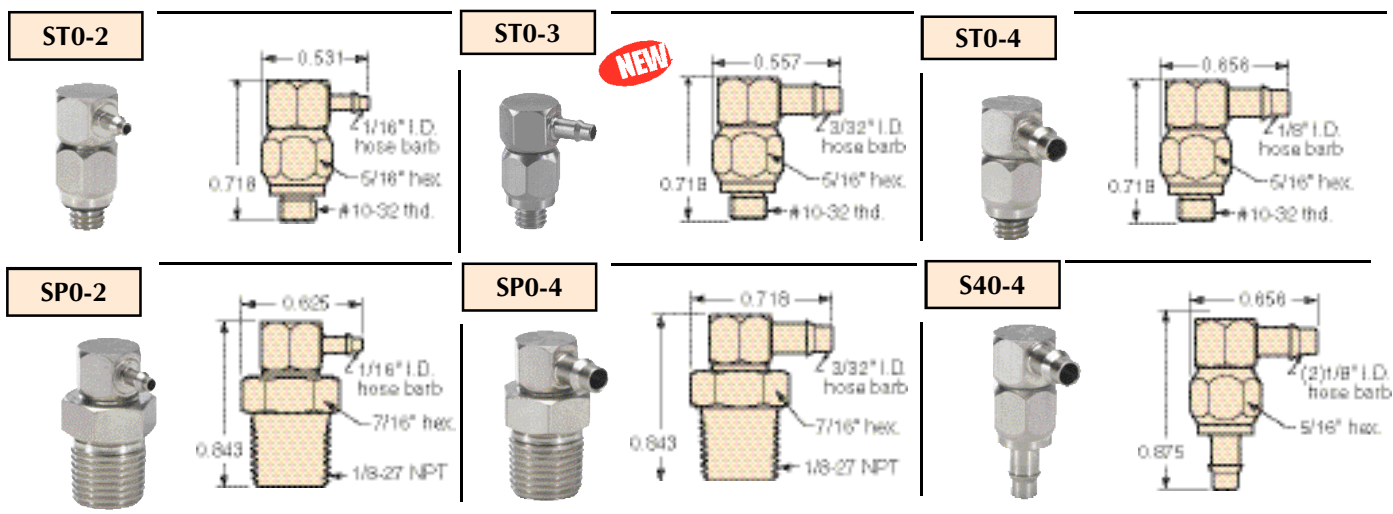


### #10-32 to Hose Swivel "T" Fittings

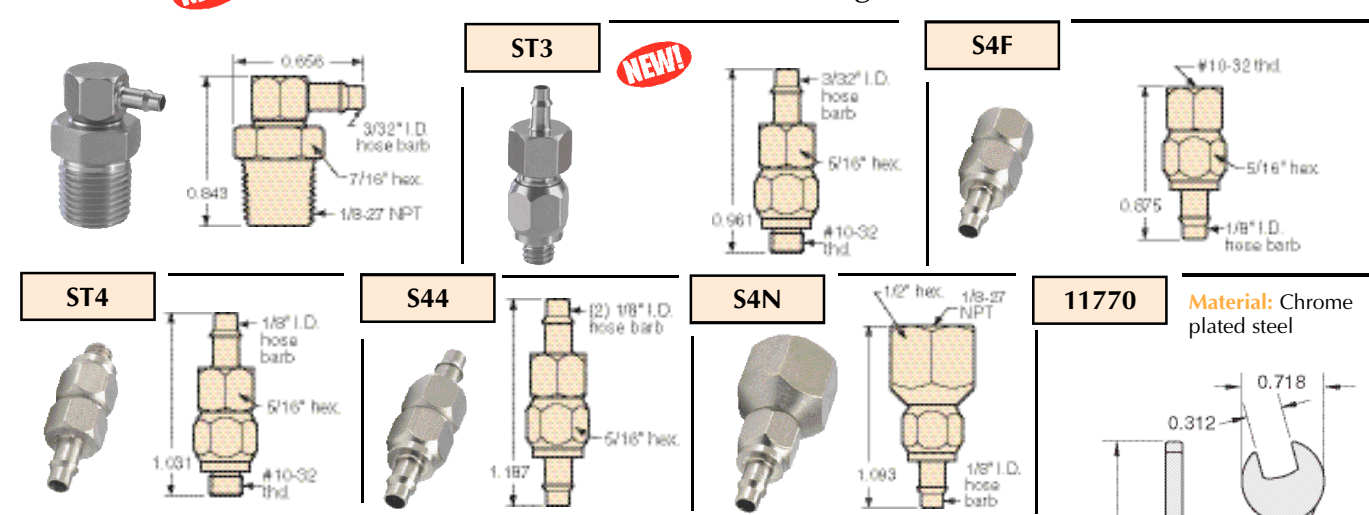


**Tip** Most Clippard #10-32 threaded fittings require no more than 9 inch pounds of torque to seal. We recommend that this force not be exceeded.

## #10-32 to Hose Swivel "L" Fittings

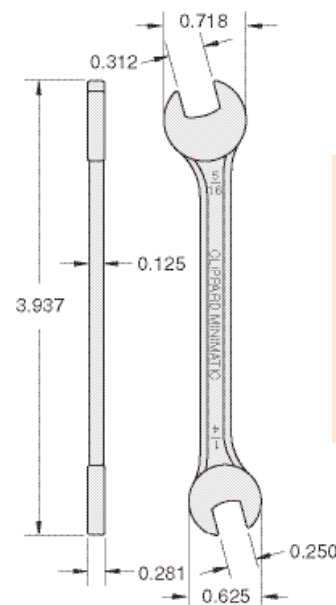


## Connector Swivel Fittings



**11770**

**Material:** Chrome plated steel



## Tips On Using Slip-On Fittings

### Hose or Tubing Size

The use of different sizes of hose or tubing in your circuits deserves some care and consideration. In general, follow the manufacturer's guide for the size of hose or tubing you use. For air logic circuits, we recommend 1/16" I.D. for pilots and 1/8" I.D. for supplies and outputs.

### Swivel Fittings

Minimatic® swivel connector fittings are very efficient in applications where joints need to be disconnected and reconnected frequently. Made with a threaded connection on one end and a swivel connection on the other, these fittings provide a true cost savings on pneumatic circuit designs. They are valuable also where short lengths of hose are being connected. Note: These are not rotating joints. They are for assembly benefits... not as a constant rotation connection.

### Tightening #10-32 Fittings

**TIGHTEN WITH CARE.** Often a "finger tight" connection between Clippard fittings with an aerobic sealant is all that is required. When using a gasket, most Clippard #10-32 threaded fittings require no more than 9 inch pounds of torque to seal. We recommend that this force not be exceeded. Use wrench #11770 with a 1/4" and 5/16" open-end.





# BRASS BARB TO #10-32 FITTINGS

**Material:** Brass

**Gasket:** Buna-N furnished in package only  
Replacement 11761-2

**Options:** (-NP), (-M5 on 11752-2, 11752-3, 11752-4 and 11752-5)

Hose Barb		
1/16" ID	3/32" ID	1/8" ID
	<b>NEW!</b> 	
<b>12841*</b>	<b>12843*</b>	<b>12842*</b>
	<b>NEW!</b> 	
<b>11752-2 &amp; 11752-M5 (metric)</b>	<b>11752-8</b>	<b>11752-1</b>
	<p>* Gasket not required; use thread sealant.</p> <p>Tighten by hand for flush mounting in #10-32 threaded holes.</p>	<b>#1 Recommended</b> 
<b>11752-5 &amp; 11752-5-M5 (metric)</b>		<b>11752-4 &amp; 11752-4-M5 (metric)</b>
		<b>11752-3 &amp; 11752-3-M5 (metric)</b>

## **NEW!** BRASS BARB TO #10-32 FITTINGS WITH CAPTIVATED O-RINGS

**Material:** Brass

**Seal:** Buna-N o-ring furnished installed

**Options:** (-NP)

Hose Barb		
1/16" ID	3/32" ID	1/8" ID
<b>11792-5</b>	<b>11792-8</b>	<b>11792-4</b>

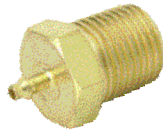
# BRASS BARB TO PIPE FITTINGS

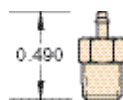
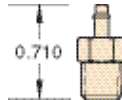
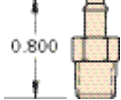
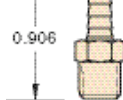
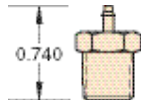
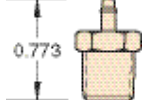
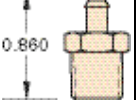
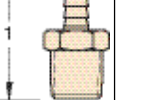
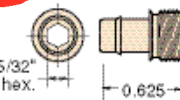
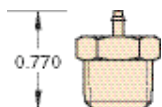
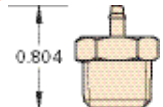
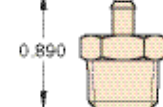
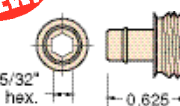
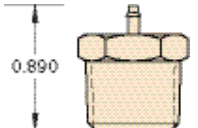
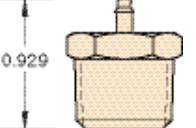
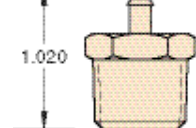
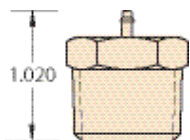
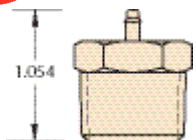
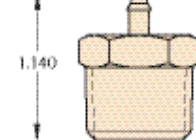


**Material:** Brass

**Thread:** Standard Pipe Thread

**Options:** (-NP)



External Thread	Hose Barb(s)				
	1/16" ID	3/32" ID	1/8" ID		1/4" ID
1/16" NPT Thread (5/16" Hex.)	 0.490	<b>NEW!</b>  0.710	 0.800	 0.906	
	1CJ2	1CJ3	1CJ4	11924-2	
1/8" NPT Thread (7/16" Hex.)	 0.740	<b>NEW!</b>  0.773	 0.860	 1	<b>NEW!</b>  5/32" hex. 0.625
	2CP2	2CP3	2CP4	11924-1*	
1/4" NPT Thread (9/16" Hex.)	 0.770	<b>NEW!</b>  0.804	 0.890		<b>NEW!</b>  5/32" hex. 0.625
	4CQ2	<b>NEW!</b> 4CQ3	4CQ4		12845
3/8" NPT Thread (11/16" Hex.)	 0.890	 0.929	 1.020		*Also available with G1/8 thread. Add -MG to the part number.
	6CW2	<b>NEW!</b> 6CW3	6CW4		
1/2" NPT Thread (13/16" Hex.)	 1.020	 1.054	 1.140		
	8CZ2	8CZ3	8CZ4		

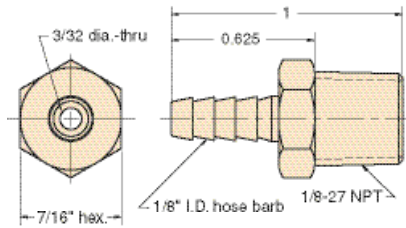


## BRASS BARB FITTINGS

**11924-1**



1/8" NPT to 1/8" I.D. Hose Fitting



**Material:** Brass

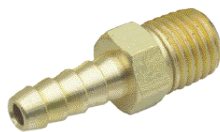
**Thread:** 1/8" NPT

**Use:** Joins standard pipe to 1/8" I.D. hose

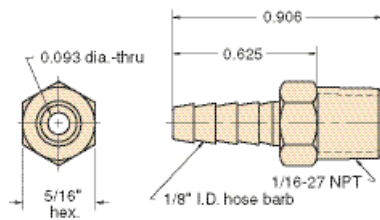
**Options:** (-NP), (-MG)



**11924-2**



1/16" NPT to 1/8" I.D. Hose Fitting



**Material:** Brass

**Thread:** 1/16" NPT

**Use:** Joins standard pipe to 1/16" I.D. hose

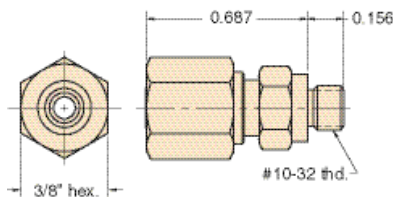
**Options:** (-NP)



**11923**



1/16" NPT to 1/8" I.D. Hose Fitting



**Material:** Brass

**Thread:** #10-32

**For Tubing:** 3811-1 copper  
3814-2 nylon

**Options:** (-NP)

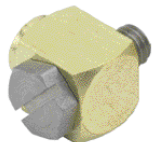
**Features:** One piece ferrule and nut for fast, easy insertion of tube

Replacement Ferrule & nut #15155

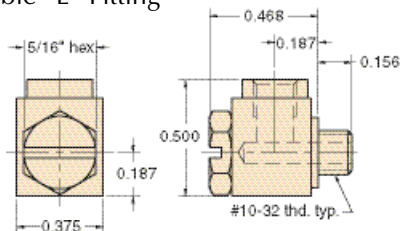


Clippard's reputation of building jigs, fixtures and machines as well as modifying existing machines to improve productivity is carried on in its well equipped machine shop. New product prototypes are crafted by experienced engineers and machinists.

## 15002-1



Adjustable "L" Fitting



**Material:** Brass body, stainless steel stud

**Stud:** Stainless steel hex head with screwdriver slot (12292)

**Thread:** #10-32

**Seals:** Buna-N o-ring furnished

**Use:** Permits port to be aimed 360° in one plane, then secured by tightening screw. Also useful in connecting and disconnecting hose in hard-to reach locations.

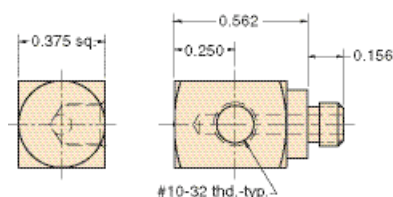
**Options:** (-NP)



## 15002-2



"L" Fitting



**Material:** Brass

**Thread:** #10-32

**Gasket:** Buna-N furnished in package only

**Use:** Allows ports to be brought out 90° to the side. For exact positioning use thread sealant

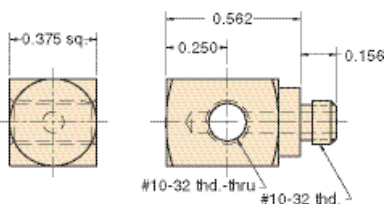
**Options:** (-NP)



## 15002-3



"T" Fitting



**Material:** Brass

**Thread:** #10-32

**Gasket:** Buna-N furnished in package only

**Use:** Like the "L" fitting, except ports out both sides. For precise positioning use thread sealant

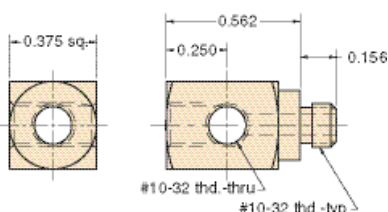
**Options:** (-NP)



## 15002-4



"X" Fitting



**Material:** Brass

**Thread:** #10-32

**Gasket:** Buna-N furnished in package only

**Use:** May be used as a miniature manifold, or "L" or "T" fitting by plugging unused ports with screw plug 11755. For precise positioning use thread sealant

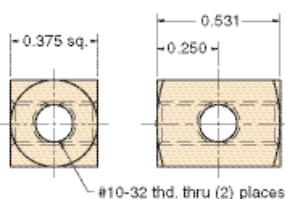
**Options:** (-NP)



## 15002-5



"X" Coupling



**Material:** Brass

**Thread:** #10-32

**Use:** Ideal as small manifold.

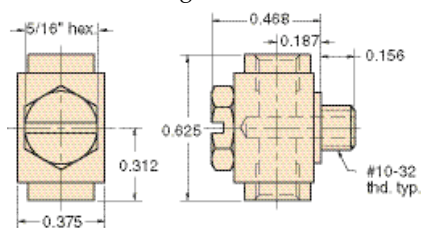
**Options:** (-NP)



## 15002-6



Adjustable "T" Fitting



**Material:** Brass

**Thread:** #10-32

**Stud:** Stainless steel hex head with screwdriver slot (12292)

**Seals:** Buna-N o-ring furnished

**Use:** Permits ports to be aimed in any direction 360° in one plane then secured by tightening screw. Also useful for connecting or disconnecting hose in tight spots.

**Note:** Same dimensions as 15002-1 "L" fitting, except length, which is 5/8"

**Options:** (-NP)



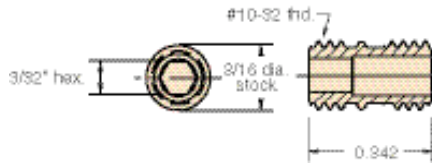


# MINIMATIC® CONNECTOR FITTINGS

**15453**



Male #10-32 Coupling



**Material:** Stainless steel

**Thread:** #10-32

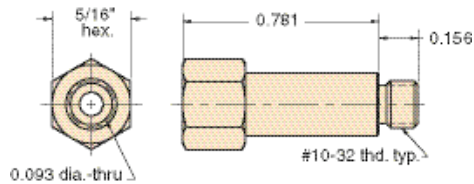
**Seals:** Loctite necessary

**Use:** Excellent for a surface to surface connection of female #10-32 products

**15010**



#10-32 Extension Fitting



**Material:** Brass

**Thread:** #10-32

**Gasket:** Buna-N furnished

**Use:** To provide extension for convenience in assembling components

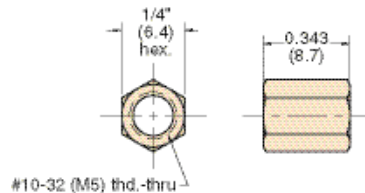
**Options:** (-NP)



**15004**



#10-32 Female Hex Coupling



**Material:** Brass

**Thread:** #10-32 tapped (M5)

**Use:** For coupling two #10-32 (M5) male fittings

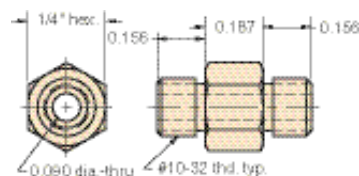
**Options:** (-NP), (-M5)



**11999**



#10-32 Male Connector



**Material:** Brass

**Thread:** #10-32 both ends

**Gaskets:** Buna-N 2 furnished

**Use:** For coupling cylinders directly to valves, and many other coupling arrangements

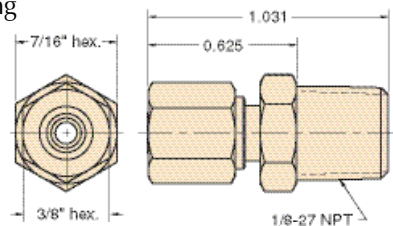
**Options:** (-NP)



**3810-1**



1/8" NPT to 1/8" O.D. Tube Compression Fitting



**Material:** Brass

**Thread:** 1/8" NPT

**Use:** Joins standard size pipe to 3811-1 copper or 3814-2 nylon tubing

**Replacement Ferrule & Nut:** 15155

**Options:** (-NP)

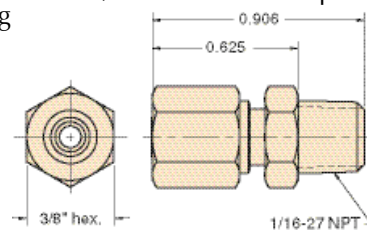
**Features:** One piece ferrule and nut for fast, easy insertion of tube



**3810-2**



1/16" NPT to 1/8" O.D. Tube Compression Fitting



**Material:** Brass

**Thread:** 1/16" NPT

**Use:** Joins standard size pipe to 3811-1 copper or 3814-2 nylon tubing

**Replacement Ferrule & Nut:** #15155

**Options:** (-NP)

**Features:** One piece ferrule and nut for fast, easy insertion of tube





## SWIVEL FITTINGS

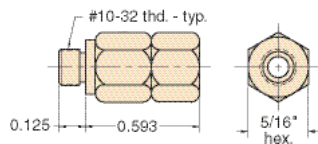
Minimatic® swivel connector fittings are very efficient in applications where joints need to be disconnected and reconnected frequently. Made with a threaded connection on one end and a swivel connection on the other, these fittings provide a true cost savings on pneumatic circuit designs. They are valuable also where short lengths of hose are being connected.

Note: These are not rotating joints. They are assembly benefits . . . not to be used as a constant rotation junction.

### 15040



#10-32 Swivel Fitting



**Material:** Brass

**Thread:** #10-32

**Seals:** Buna-N o-ring (gasket furnished package only)

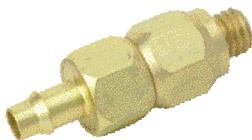
**Use:** Allows connection to rotate for tightening in confined spaces

**Note:** Used for positioning not for rotary connector

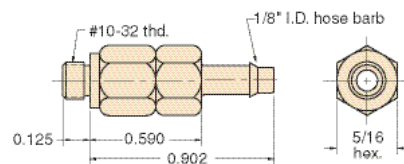
**Options:** (-NP)



### 15045



#10-32 to 1/8" I.D. Hose Swivel Fitting



**Material:** Brass

**Thread:** #10-32

**Seals:** Buna-N o-ring (gasket furnished package only)

**Use:** Allows connection to rotate for tightening in confined spaces

**Hose Barb:** 1/8" I.D. hose

**Note:** Used for positioning not for rotary connector

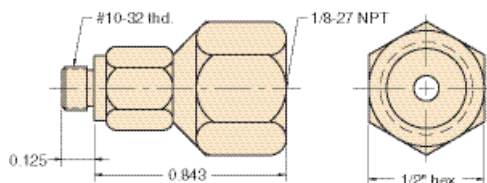
**Options:** (-NP)



### 15050



1/8" NPT to #10-32 Swivel Adapter



**Material:** Brass

**Thread:** #10-32 and tapped for 1/8-27 NPT

**Seals:** Buna-N o-ring (gasket furnished package only)

**Use:** Allow connection to rotate for tightening in confined spaces

**Note:** Used for positioning not for rotary connector

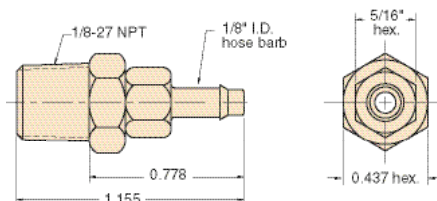
**Options:** (-NP)



### 15055



1/8" NPT to 1/8" I.D. Hose Swivel Fitting



**Material:** Brass

**Thread:** 1/8-27 NPT

**Seals:** Buna-N o-ring

**Use:** Allows connection to rotate for tightening in confined spaces

**Hose Barb:** 1/8" I.D. hose

**Note:** Used for positioning not for rotary connector

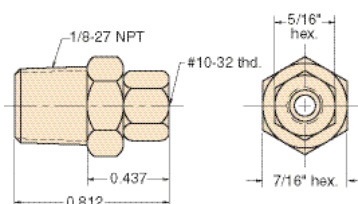
**Options:** (-NP)



### 15060



1/8" NPT to #10-32 Swivel Adapter



**Material:** Brass

**Thread:** 1/8-27 NPT male and #10-32 tapped

**Seals:** Buna-N o-ring

**Use:** Allows connection to rotate for tightening in confined spaces.

**Note:** Used for positioning not for rotary connector

**Options:** (-NP)

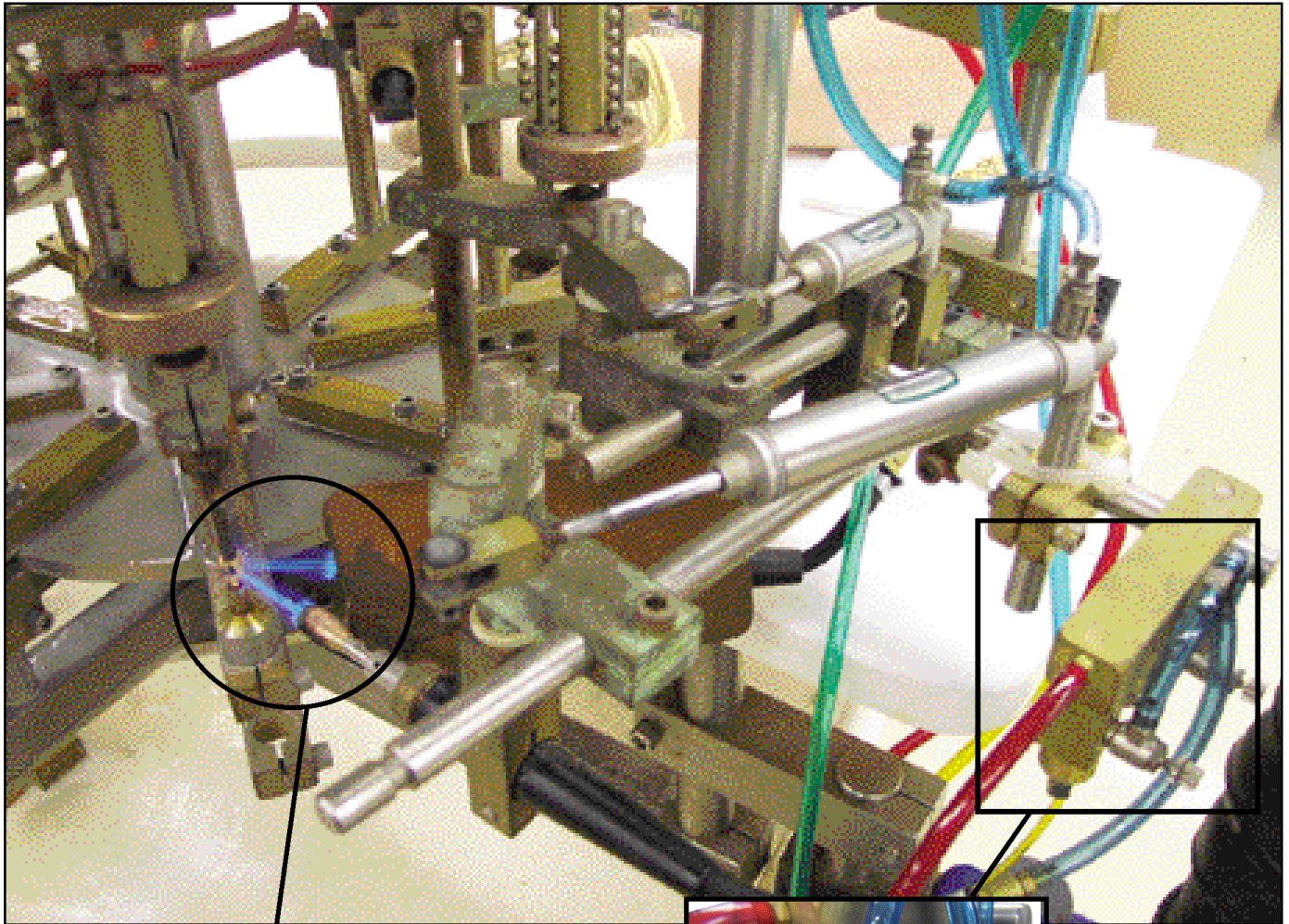




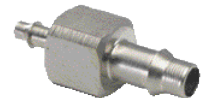
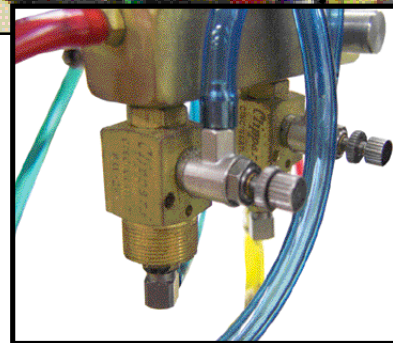
## MINIMATIC® FITTINGS

### Clippard Slip-on Fitting Assembly

This semi-automatic rotary solder machine was designed and built in-house for the Clippard slip-on fitting product line. Incorporated into the design are Clippard modular valves, stainless steel cylinders, brass valves, flow controls, slip-on fittings, hose and super structure providing framework, control, indexing and parts handling.



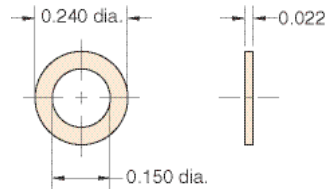
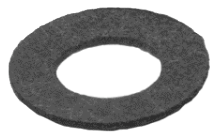
The machine consists of a rotating center carousel with eight stations. The individual components of each slip-on fitting are loaded into clamp fixtures mounted on the carousel. The carousel indexes to each of the process stations: load, heat, cool, quench, and unload. The control and timing of the machine is accomplished using Clippard modular valves and brass limit valves. Each clamp fixture has its own control circuit for manual and automatic control. Sensors are also incorporated at each clamp fixture to sense the presence of a part.



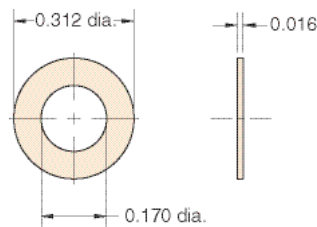
The heat station uses MFC-3AK2's to meter propane, while PAV-2's turn the propane on and off. In addition, the torches are connected to cylinders so they are able to rotate for the heat cycle.

**11761-2**

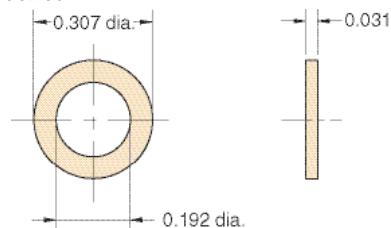
Buna-N Gasket

**Material:** Buna-N**Use:** Buna-N gasket is designed for use with #10-32 threads; included with packaged Clippard fittings; replaces 11761-5**Temperature Range:** -40 to +250° F**11761-3**

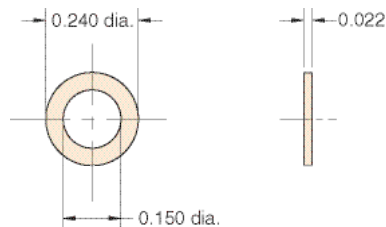
Fiber Gasket

**Material:** Cellulose fiber & SBR latex**Use:** Designed for use with #10-32 threads in high temperature applications**Temperature Range:** -40 to +350° F**11761-4**

Nylon Gasket

**Material:** Nylon**Use:** Designed for use with #10-32 threads in applications that require nylon for chemical compatibility**Temperature Range:** +40 to +200° F**11761-7**

EPDM

**Material:** EPDM**Use:** Designed for use with #10-32 threads in applications that require EPDM for low temperature or chemical compatibility; do not use with petroleum-based lubricants**Temperature Range:** -60 to +300° F

## Gasket Tips

Gaskets are recommended for use with Clippard fittings. They provide snug, dependable seals without extra effort or materials. The most popular gasket for static sealing of #10-32 threads is the 11761-2 Buna-N Gasket. This gasket is included with packaged fittings and comes installed on a variety of Minimatic® slip-on fittings. Overtightening fittings with gaskets may have a tendency to extrude the gasket. While this may be a concern, the actual sealing is being accomplished by a small piece of the gasket at the base of the threads.

## Sealants

There are a number of brands of anaerobic sealants that may be used with Clippard fittings. Anaerobic sealants are applied wet and harden when no longer exposed to air. Their proper use results in a very effective, low cost seal. There are several alternate sealing methods:

1. sealant alone
2. gasket alone
3. home alone (just kidding)
4. gasket and sealant combination

The first two methods will provide adequate sealing for normal air pressures. When extra resistance to vibration is necessary or a permanent orientation of the fitting is required, use of the combination of both gasket and sealant is recommended.



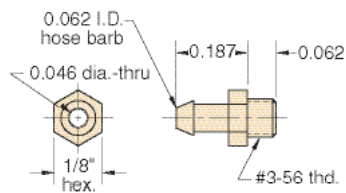
## ADAPTER FITTINGS

**Material:** Brass

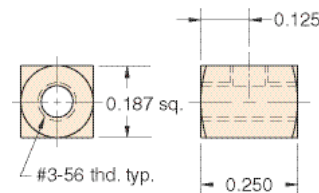
**Thread:** M2.5 - 0.45 (3-56 US equiv.)

**Use:** Threads into Clippard subminiature cylinder; fits 1/16" I.D. hose

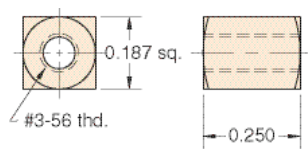
**11750-2**



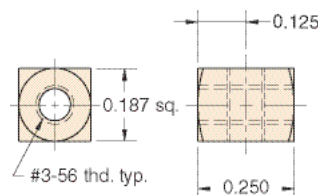
**11749-2**



**11749-1**



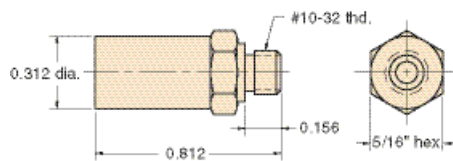
**11749-3**



**15070**



**#10-32 Muffler**



**Material:** Nickel plated brass body sintered stainless steel muffler (60 micron)

**Thread:** #10-32

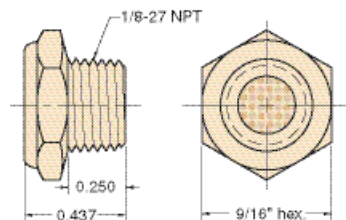
**Gasket:** Buna-N furnished

**Use:** To muffle exhausts for quiet system operation

**15080**



**1/8" NPT Muffler**



**Material:** Solid brass body; sintered stainless steel insert (100 micron)

**Thread:** 1/8" NPT

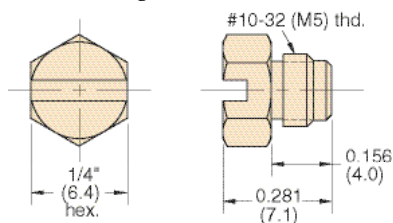
**Use:** To muffle exhaust for quiet system operation

**Options:** (-NP)

**11755**



**#10-32 Screw Plug**



**Material:** Brass

**Thread:** #10-32 (M5)

**Gasket:** Buna-N furnished package only

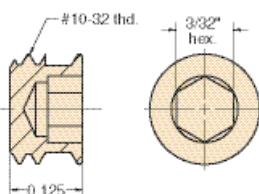
**Use:** For plugging unused ports in manifolds, air lines and other devices

**Options:** (-NP), (-M5)

**0035-2**



**#10-32 Headless Screw Plug**



**Material:** Stainless Steel screw plug

**Thread:** #10-32

**Use:** For plugging unused ports in manifold, air lines and other devices that require a flush surface plug; use 3/32 Allen hex wrench to install

**Note:** Thread sealant recommended








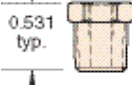

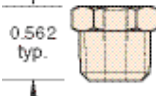


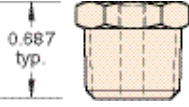
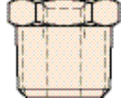
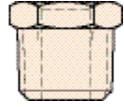
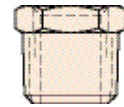
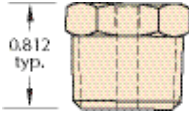
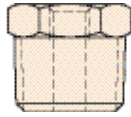
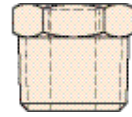
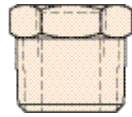
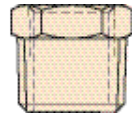
# PIPE REDUCER BUSHINGS



**Material:** Brass

**Use:** Will adapt standard pipe to fittings and Clippard miniature components

**Option:** (-NP)

External Thread	Internal Thread					
	#10-32	#10-32	1/16" NPT	1/8" NPT	1/4" NPT	3/8" NPT
1/16" NPT Thread (5/16" Hex.)		 0.468 typ.				
		1CJF				
1/8" NPT Thread (7/16" Hex.)	 0.250 typ.	 0.531 typ.				
		15036*	2CPK			
1/4" NPT Thread (9/16" Hex.)		 0.562 typ.				
		4CQF	4CQK	4CQN		
3/8" NPT Thread (11/16" Hex.)		 0.687 typ.				
		6CWF	6CWK	6CWN	6CWY	
1/2" NPT Thread (13/16" Hex.)		 0.812 typ.				
		8CZF	8CZK	8CZN	8CZY	8CZD



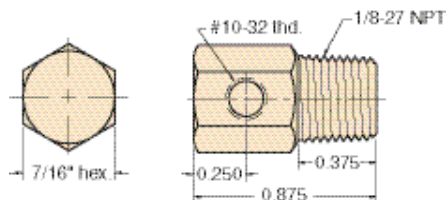


## ADAPTER & BULKHEAD FITTINGS

### 15090-1



1/8" NPT to #10-32 "L" Fitting



**Material:** Brass

**Thread:** 1/8" NPT to #10-32

**Use:** To provide connections between the two thread sizes with mounting convenience

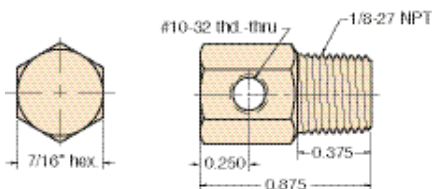
**Options:** (-NP)



### 15090-2



1/8" NPT to #10-32 "T" Fitting



**Material:** Brass

**Thread:** 1/8" NPT to #10-32

**Use:** To provide connections between the two thread sizes with extra mounting convenience

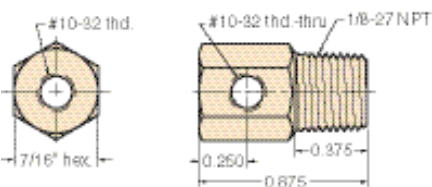
**Options:** (-NP)



### 15090-3



1/8" NPT to #10-32 "X" Cross Fitting



**Material:** Brass

**Thread:** 1/8" NPT to #10-32

**Use:** To provide connections between the two thread sizes; can be used as a miniature manifold

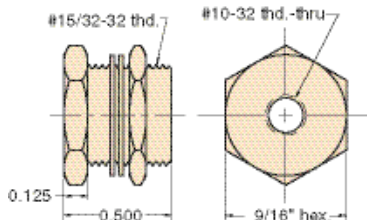
**Options:** (-NP)



### 15027



#10-32 Bulkhead Fitting



**Material:** Brass

**Thread:** #10-32 tapped both ends

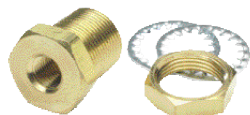
**Locking Nut:** 9/16" furnished with 2 steel lockwashers

**Use:** Provides rigid connection thru panels or bulkheads up to 1/4" thick; use with any Clippard #10-32 threaded fitting or connector

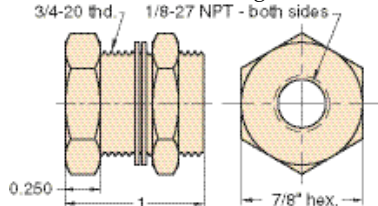
**Options:** (-NP)



### 15029-1



1/8" NPT Bulkhead Fitting



**Material:** Brass

**Thread:** O.D. - 3/4 - 20, I.D. 1/8" NPT

**Locking Nut:** 7/8" hex furnished with 2 steel lockwashers

**Use:** Provides rigid connection thru panels or bulkheads up to 1/2" thick

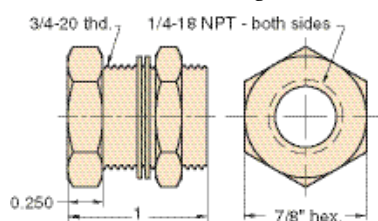
**Options:** (-NP)



### 15029-2



1/4" NPT Bulkhead Fitting



**Material:** Brass

**Thread:** O.D. - 3/4 - 20, I.D. 1/4" NPT

**Locking Nut:** 7/8" hex furnished with 2 steel lockwashers

**Use:** Provides rigid connection thru panels or bulkheads up to 1/2" thick

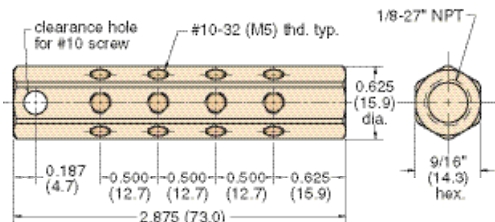
**Options:** (-NP)



## MAN-12



### 12-Port Manifold



**Material:** Brass

**Thread:** Tapped ports: 1/8" standard pipe tapped inlet

**Mounting:** 13/64" diameter mounting hole

**Use:** May be mounted on jigs, fixtures or machinery to provide up to 12 convenient #10-32 outlets from one standard 1/8" pipe connection; may be used with any Clippard #10-32 fittings, quick connects and many other devices; unused ports can be plugged with screw plug 11755

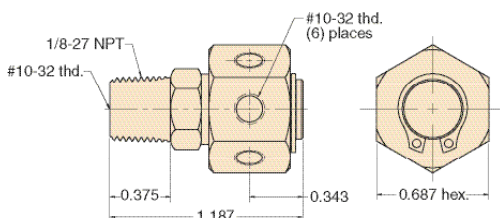
**Options:** (-NP)



## MRM-6



### 6-Port Rotary Manifold



**Material:** Brass and stainless steel

**Thread:** 1/8" NPT for inlet is also tapped #10-32; outlet consists of 6 ports tapped #10-32

**Seals:** Buna-N o-ring furnished

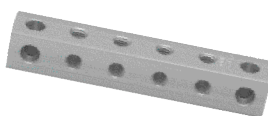
**Working Range:** 250 psig max.

**Air Flow:** 5.9 scfm @ 50 psig

**Use:** May be used either as a rotary joint or as a stationary manifold; ideal for distributing air or liquid from center column onto a rotary index table; unused ports may be plugged with screw plug 11755 and gasket

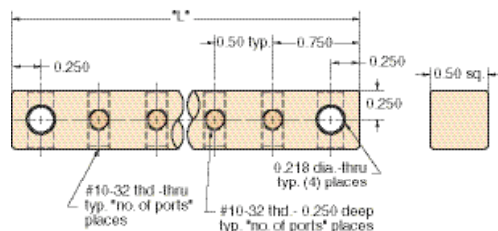
Low RPM applications

## 15028-□



### Miniature Terminal Blocks

**X to be replaced with:** 4, 6, 8, 10



**Material:** Anodized aluminum

**Thread:** #10-32 tapped ports

**Mounting:** With two 7/32" diameter mounting holes

**Use:** To help organize connections in circuit boxes, control panels and machine piping; cross drilled mounting holes permit mounting of "T" in any direction; use screw plug 11755 to plug unused ports

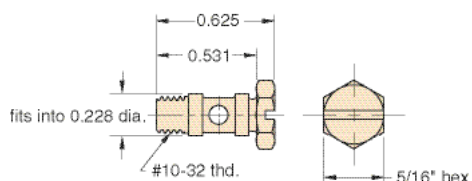
Model #	# of Ports	A	L
15028-4	4	2 1/2"	3"
15028-6	6	3 1/2"	4"
15028-8	8	4 1/2"	5"
15028-10	10	5 1/2"	6"

15028-4 pictured above

## 12292



### Miniature Manifold Stud



**Material:** Stainless steel

**Thread:** #10-32

**Seals:** Buna-N o-ring and gasket furnished

**Use:** This hollow, cross-drilled stud is useful for connecting specially made manifolds to multiple ports of valves or cylinders, eliminating need for external fittings with hose

## Tips On Using Minimatic® Fittings

### Hose or Tubing Size

The use of different sizes of hose or tubing in your circuits deserves some care and consideration. In general, follow this guide for the size of hose or tubing you use.

For air logic circuits, we recommend:  
1/16" I.D. for pilots  
1/8" I.D. for supplies and outputs



# MANIFOLDS

B□□□-□□



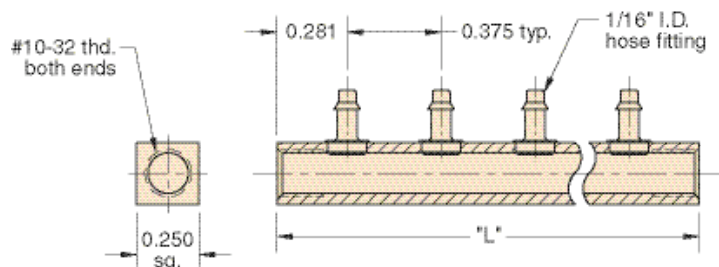
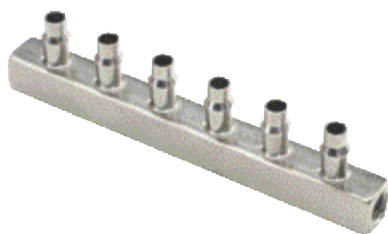
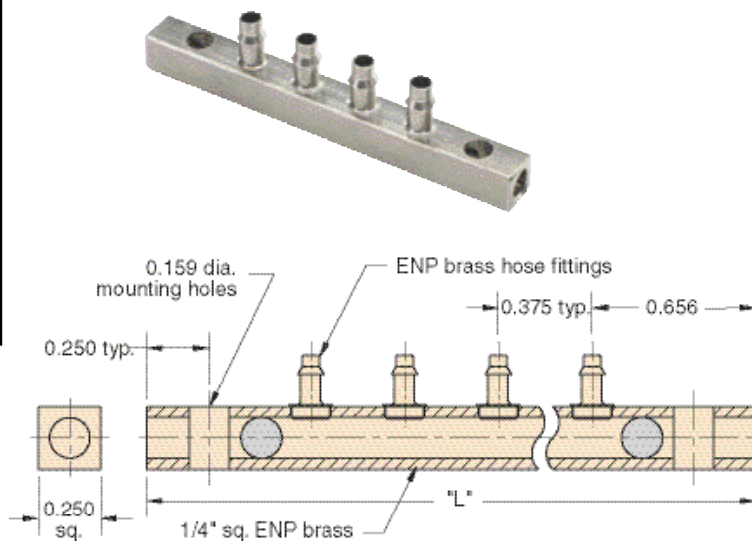
**HH** - Mounting Hole Both Ends  
**TT** - #10-32 Thread Port Both Ends

**2** - 1/16" Barb  
**4** - 1/8" Barb

**# of Barbs**  
04, 06, 08, 10, 12

Part #	# of Stations	Fitting Size
BHH2-04	4	1/16" I.D. Hose Barb
BHH2-06	6	
BHH2-08	8	
BHH2-10	10	
BHH2-12	12	
BHH4-04	4	1/8" I.D. Hose Barb
BHH4-06	6	
BHH4-08	8	
BHH4-10	10	
BHH4-12	12	

The BHH series has mounting holes for #6 screws at each end. One of the stations must be used as the air supply to the manifold.



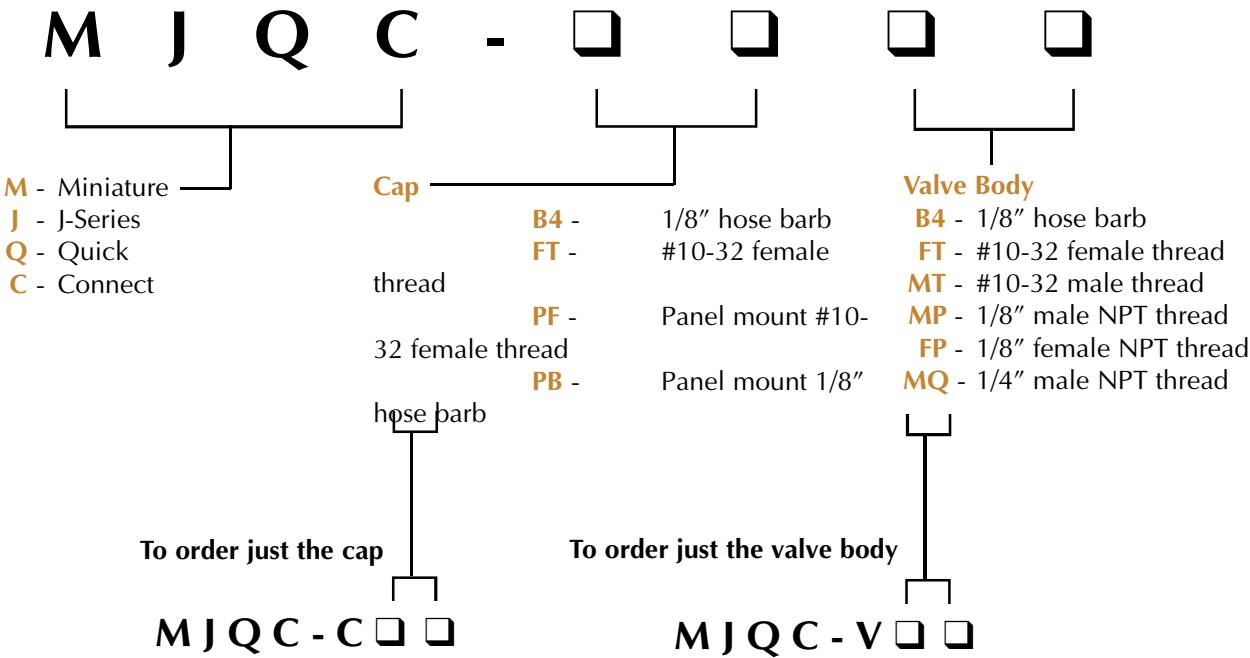
Part #	# of Stations	Fitting Size
BTT2-04	4	1/16" I.D. Hose Barb
BTT2-06	6	
BTT2-08	8	
BTT2-10	10	
BTT2-12	12	
BTT4-04	4	1/8" I.D. Hose Barb
BTT4-06	6	
BTT4-08	8	
BTT4-10	10	
BTT4-12	12	

The BTT series has #10-32 holes at each end for inline mounting. One end may be used as the air supply to the manifold and the other end plugged.

# MINIMATIC® J-SERIES QUICK CONNECT



The Minimatic J-Series quick connect consists of two component parts that are joined to form the complete connector. The valve body contains a 2-way spring-loaded poppet valve that is generally connected to the main air supply. When the poppet is not depressed, the air supply is shut-off by this valve. The Cap contains a valve depressor that when assembled to the valve body, depresses the poppet allowing air to flow from the main supply to circuitry or equipment downstream. Valve body & cap assemblies contain both components.



STANDARD CATALOG PARTS		
Assembly	Cap Only	Valve Body Only
MJQC-B4B4	MJQC-CB4	MJQC-VB4
MJQC-B4MP	MJQC-CFT	MJQC-VFT
MJQC-MPB4	MJQC-CMP	MJQC-VFP
MJQC-PBB4	MJQC-CPB	MJQC-VMP
MJQC-PFB4	MJQC-CMQ	MJQC-VMQ



# MINIMATIC® J-SERIES QUICK CONNECT

## VALVE BODY & CAP ASSEMBLIES

\*1/8" Barb - fits 1/8" I.D. hose. Ideal for use with Clippard 3814-6 polyurethane hose.

### FEATURES

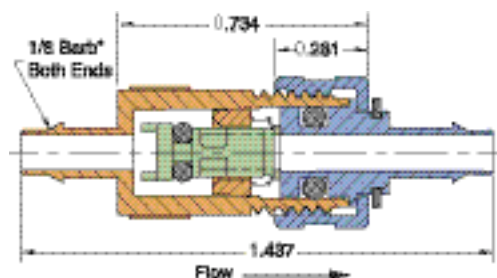
- High flow of 14 scfm @ 100 psig
- Space saving attractive miniature design
- Wide variety of connectors
- Adds convenience to equipment and circuits
- Brass body, electroless nickel plated
- Non-corrosive - Delrin® poppet
- Fills the gap between clumsy, large quick connects and smaller quick connects with less flow
- Buna-N seals, positive shut off
- Positive threaded connection, stays connected
- Medium: air, oil, and water
- Working Pressure: 0-150 psig max.



Minimatic® J-Series quick connect fittings are very compact yet provide a high flow of 14 scfm @ 100 psig. The electroless nickel plated brass body is available with #10-32 threads (M or F), 1/8" NPT threads (M or F), 1/4" NPT threads (M) or a 1/8" hose single barb configuration that is ideal for use with Clippard 3814-6 polyurethane hose.

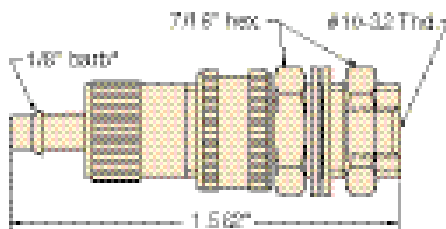
### MJQC-B4B4

Combination of MJQC-VB4 & MJQC-CB4



### MJQC-PFB4

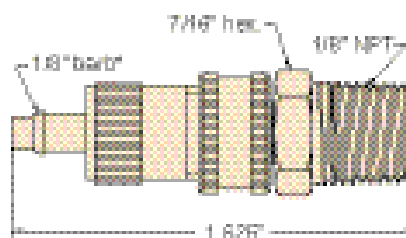
Combination of MJQC-VB4 & MJQC-CPF



(Supplied with mounting nut and two washers)

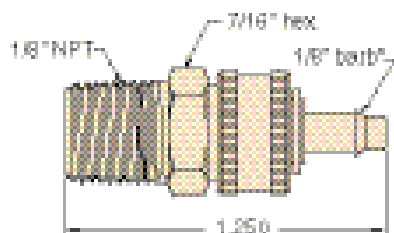
### MJQC-MPB4

Combination of MJQC-VB4 & MJQC-CMP



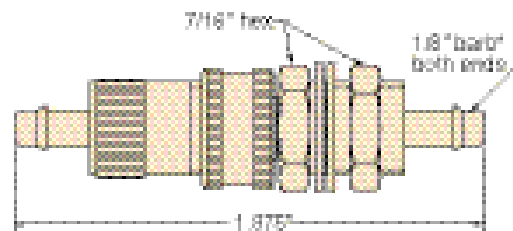
### MJQC-B4MP

Combination of MJQC-VMP & MJQC-CB4



### MJQC-PBB4

Combination of MJQC-VB4 & MJQC-CPB



(Supplied with mounting nut and two washers)



# MINIMATIC® J-SERIES QUICK CONNECT FITTINGS



## CAPS

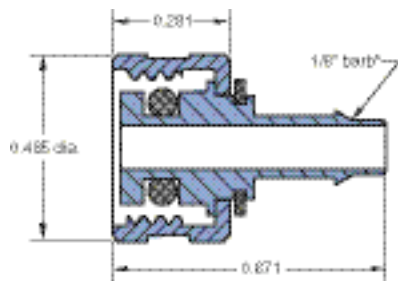
Caps with open flow path

Minimatic J-Series quick connect fittings are ideal for use in jigs, fixtures, feeding devices, logic control circuitry and automatic or semi-automatic machinery. Assembly is simple, and the tightening of the knurled cap assures a positive, leakproof, high pressure connection that will stay connected.

\*1/8 barb - fits 1/8" I.D. hose. Ideal for use with Clippard 3814-6 polyurethane hose.

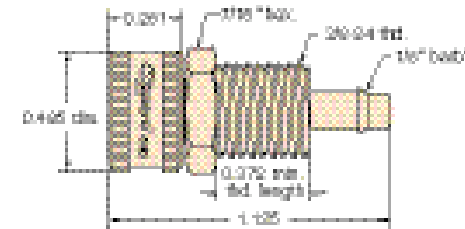


## MJQC-CB4

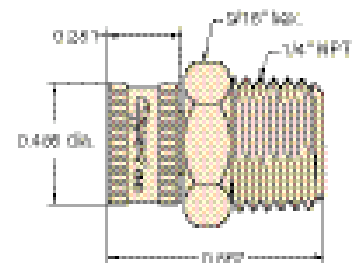


## MJQC-CPB

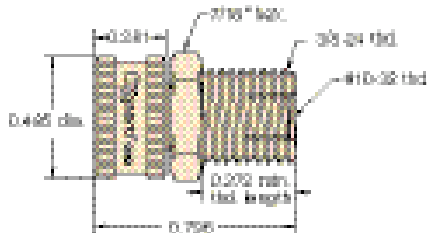
Supplied with mounting nut and two washers



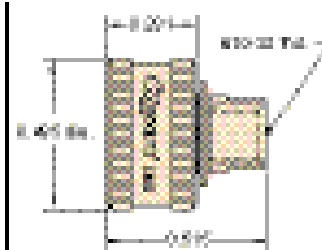
## MJQC-CMQ



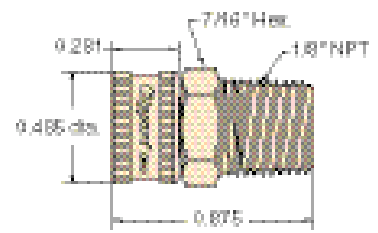
## MJQC-CPF



## MJQC-CFT



## MJQC-CMP



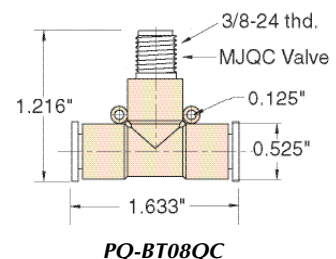
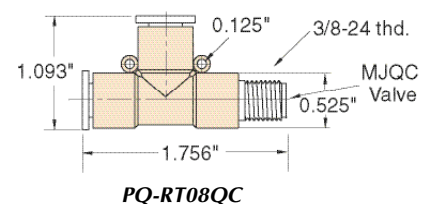
## NEW! Push-Quick Fittings with MJQC Quick-Connect Port



These new 1/4" fittings combine the quick, easy Push-Quick functionality with the flexibility and security of the Quick-Connect series with no circuit interruption. MJQC Quick-Connect Caps (ordered separately above) attach to the threaded port allowing for a variety of uses.

Part No.	Description
PQ-RT08QC	...Run T with 3/8-24 Thread
PQ-BT08QC	...Branch T with 3/8-24 Thread

- Serves as an easy connection point for temporary functions/circuitry
- Quickly test for air flow
- Easy connection to valves, cylinders, hose, etc.
- Check air pressure via a gauge
- Use as a dump valve/vent





# MINIMATIC® J-SERIES QUICK CONNECT

## VALVE BODIES

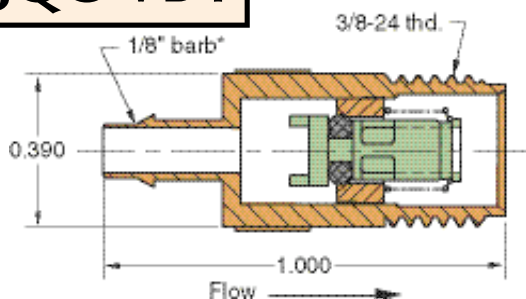
Valve bodies with shut-off valve

Minimatic J-Series quick connect fittings are very compact yet provide a high flow of 14 scfm @ 100 psig. The electroless nickel plated brass body is available with #10-32 threads (M or F), 1/8" NPT threads (M or F), 1/4" NPT threads (M) or a 1/8 hose single barb configuration that is ideal for use with Clippard 3814-6 polyurethane hose.

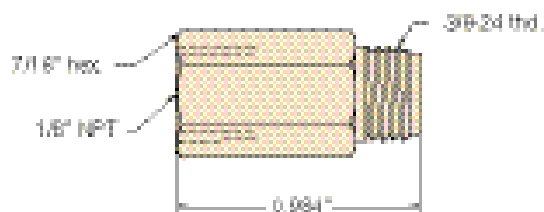
\*1/8 Barb - fits 1/8" I.D. hose. Ideal for use with Clippard 3814-6 polyurethane hose.



### MJQC-VB4

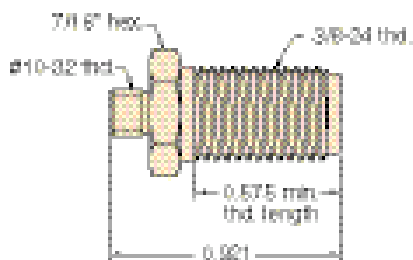


### MJQC-VFP

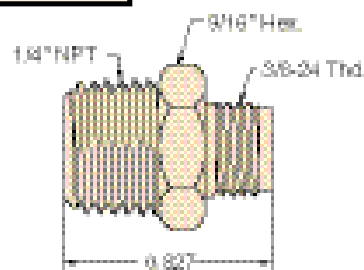


### MJQC-VMT

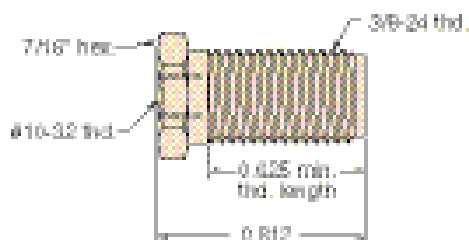
Supplied with mounting nut and two washers



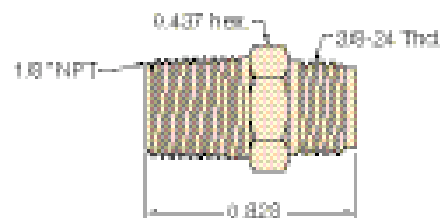
### MJQC-VMQ



### MJQC-VFT

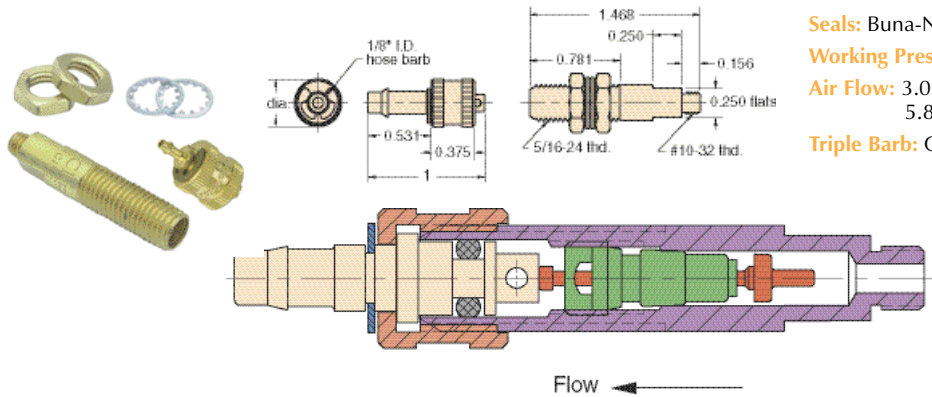


### MJQC-VMP



## MQC-2S

### NEW! Quick Connect Assembly



**Type:** One way check quick connect assembly of valve body MQC-V2 and hose connector MQC-F

**Material:** Body- brass, Stem- brass

**Seals:** Buna-N

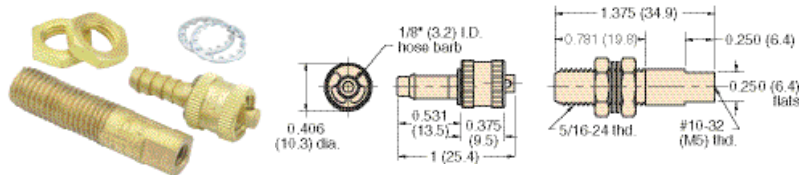
**Working Pressure:** 0 to 300 psig

**Air Flow:** 3.0 scfm @ 50 psig  
5.8 scfm @ 100 psig

**Triple Barb:** Order #MQC-2

## MQC-3S

### NEW! Quick Connect Assembly



**Type:** One way check quick connect assembly of valve body MQC-V3 and hose connector MQC-F

**Material:** Body- brass, Stem- brass

**Seals:** Buna-N

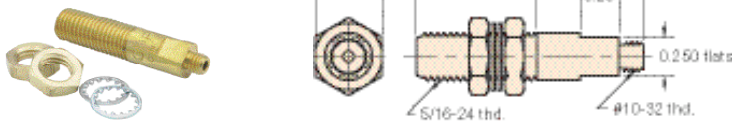
**Working Pressure:** 0 to 300 psig

**Air Flow:** 3.0 scfm @ 50 psig  
5.8 scfm @ 100 psig

**Triple Barb:** Order #MQC-3 or MQC-3-M5 (metric)

## MQC-V2

### Valve Body



**Material:** Brass

**Thread:** #10-32 male

**Mounting:** In panel or bracket to 1/4" thick with two 7/16" mounting nuts and lockwashers furnished; also screws directly into operative unit or manifold

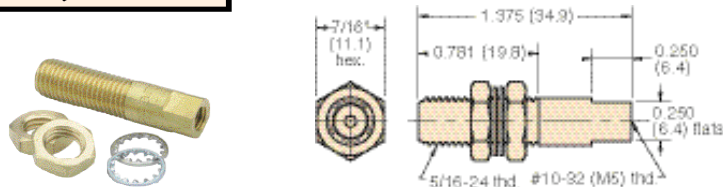
**Seals:** Buna-N

**Use:** For connection with external shut-off to external hose, use hose connectors: MQC-F, MQC-FT, MQC-F2

**Options:** (-NP)

## MQC-V3

### Valve Body



**Material:** Brass

**Thread:** Tapped #10-32

**Mounting:** In panel or bracket to 1/4" thick with two 7/16" mounting nuts and lockwashers furnished; like MQC-V2, but end is tapped #10-32 instead of threaded

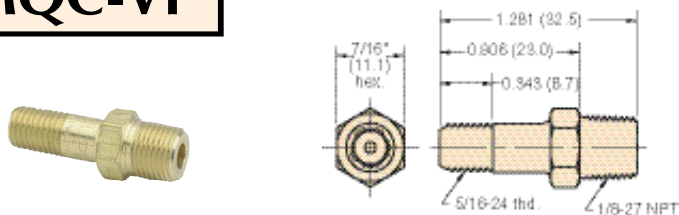
**Seals:** Buna-N

**Use:** For connection with external shut-off to external hose, use hose connectors: MQC-F, MQC-FT, MQC-F2

**Options:** (-NP), (-M5)

## MQC-VP

### Valve Body



**Material:** Brass

**Thread:** 1/8" NPT base; 5/16-24 body

**Use:** For connection with external shut-off to external hose, use hose connectors: MQC-F, MQC-FT, MQC-F2

**Seals:** Buna-N

**Options:** (-NP), (-MR), (-MG)

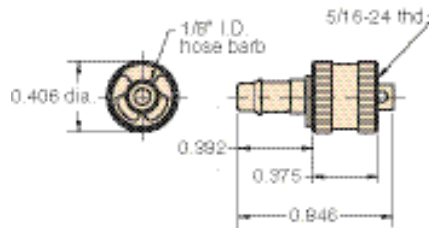


# MINIMATIC® QUICK CONNECT

## MQC-FS



1/8" Hose Connector



**Material:** Brass

**Thread:** I.D. of knurled end screws onto male end of valve bodies

**For Use With:** 1/8" I.D. Vinyl, Buna-N or braided hose

**Installation:** Simply push hose onto barbed end and secure with hose clamp # 5000-1, 5000-2 or 5000-1A.

**Seals:** Buna-N

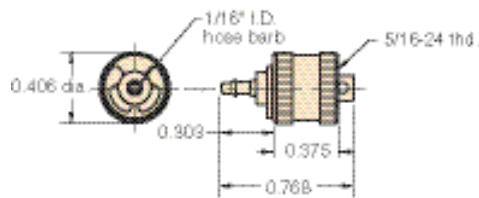
**Options:** (-NP)

**Triple Barb:** Order #MQC-F

## MQC-F2S



1/16" Hose Connector



**Material:** Brass

**Thread:** I.D. of knurled end screws onto male end of valve bodies

**For Use With:** Subminiature 3814-5 1/16" ID vinyl hose

**Installation:** Simply push hose onto barbed end and secure with slip-over hose clamp furnished

**Seals:** Buna-N

**Options:** (-NP)

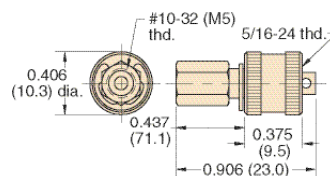
**Triple Barb:** Order #MQC-F2



## MQC-FT



#10-32 (M5) Tapped Connector



**Material:** Brass

**Thread:** Outlet is tapped #10-32 or M5 Metric. I.D. of knurled end screws onto male end of valve bodies: MQC-V2, MQC-V3, MQC-VP

**Mounting:** Outlet mounts with #10-32 (M5) short coupling #11999

**Seals:** Buna-N

**Options:** (-NP), (-M5)



### Tip

When assembling #10-32 threaded fittings with gaskets, turn the fitting in until the gasket contacts the surface. Then give the fitting less than a 1/4 turn to achieve a good seal.





For the ultimate in convenience, have a selection of helpful fittings available for every need. Keeping a supply of fittings on hand can save money and time, allowing projects, prototypes, circuits, and repairs to be finished quickly and avoiding delays.

These Minimatic fittings kits contain a variety of the most commonly used fittings and quick connects. The kit saves time ordering and additional parts or replacements can be ordered at any time. Each kit comes in a sturdy plastic case.



## 17555-SF1

### Minimatic Slip-on Fittings Kit



#### Contains:

- CTO-2 Connector L 1/16" I.D. Hose to M #10-32
  - UTO-2 Universal L 1/16" I.D. Hose to M #10-32
  - STO-2 Swivel L 1/16" I.D. Hose to M #10-32
  - CTO-4 Connector L 1/8" I.D. Hose to M #10-32
  - UTO-4 Universal L 1/8" I.D. Hose to M #10-32
  - STO-4 Swivel L 1/8" I.D. Hose to M #10-32
  - TTO-202 Connector 1/16" I.D. Hose T with M #10-32
  - UTO-2002 Universal 1/16" I.D. Hose T with M #10-32
  - STO-2002 Swivel 1/16" I.D. Hose T with M #10-32
  - TTO-404 Connector 1/8" I.D. Hose T with M #10-32
  - UTO-4004 Universal 1/8" I.D. Hose T with M #10-32
  - STO-4004 Swivel 1/8" I.D. Hose T with M #10-32
  - Clippard 1/4" & 5/16" Wrench 11770
  - Gasket 11761-2
  - Hose Samples
- UTO-FOF (T) Universal M #10-32 to F #10-32
  - UTO-F (L) Universal M #10-32 to F #10-32
  - UTF-F (T) Universal M #10-32 to F #10-32
  - UTF-FOF (X) Universal M #10-32 to F #10-32
  - Inline Connectors
    - C44 1/8" I.D. Hose to 1/8" I.D. Hose
    - C42 1/8" I.D. Hose to 1/16" I.D. Hose
    - C22 1/16" I.D. Hose to 1/16" I.D. Hose
  - T22-4 1/8" I.D. Hose T to 1/16" I.D. Hoses
  - T44-2 1/16" I.D. Hose T to 1/8" I.D. Hoses
  - X44-404 1/8" I.D. Hose X
  - X22-202 1/16" I.D. Hose X
  - SPO-4 1/8" M NPT to L 1/8" I.D. Hose
  - SPO-2 1/8" M NPT to L 1/16" I.D. Hose
  - SPO-4004 1/8" M NPT to T 1/8" I.D. Hose
  - SPO-2002 1/8" M NPT to T 1/16" I.D. Hose
  - T22-2 1/16" I.D. Hose T
  - T44-4 1/8" I.D. Hose T
  - XT4-404 1/8" I.D. Hose X with M #10-32
  - XT2-202 1/16" I.D. Hose X with M #10-32
  - CT2 1/16" I.D. Hose to M #10-32
  - CT4 1/8" I.D. Hose to M #10-32
  - Inline Swivel Connectors
    - S44 1/8" I.D. Hose to 1/8" I.D. Hose
    - ST4 1/8" I.D. Hose to M #10-32
    - S4F 1/8" I.D. Hose to F #10-32



# MINIMATIC® FITTINGS KIT

17555

## Minimatic Fittings Kit



### Contains:

- 1/8" NPT to #10-32 L 15090-1
- #10-32 L Fitting 15002-2
- #10-32 Screw Plug 11755
- #10-32 to 1/16" I.D. Hose Fitting 11752-2

- #10-32 Extension Fitting 15010
- 1/8" M NPT to 1/8" I.D. Hose Adapter 11924-1
- Adjustable #10-32 L Fitting 15002-1
- #10-32 X Fitting 15002-4
- Female #10-32 Hex Connector 15004
- #10-32 M to 1/8" I.D. Hose with Swivel 15045
- 1/4" M NPT to #10-32 F Adapter 15006-3
- 1/8" NPT to #10-32 T 15090-2
- #10-32 T Fitting 15002-3
- #10-32 M Short Coupling 11999
- #10-32 to 1/8" I.D. Hose Fitting 11752-3
- Gasket 11761-2
- 12 Port Manifold MAN-12
- Clippard 1/4" & 5/16" Wrench 11770
- 1/8" M NPT to #10-32 F Adapter 15006-1

17555-QC1

## Minimatic Quick Connect Kit



### Contains:

- 1/8" I.D. T Connector T44-4
- Panel Mount #10-32 F Cap MJQC-CPF
- Panel Mount 1/8" I.D. Hose Cap MJQC-CPB

- 3/8-24 Nuts 0107-48
- Lockwasher 0302-43
- 1/8" F NPT Valve MJQC-VFP
- 1/4" M NPT Valve MJQC-VMQ
- 1/8" M NPT Valve MJQC-VMP
- 1/8" M NPT Cap MJQC-CMP
- 1/4" M NPT Cap MJQC-CMQ
- 1/8" I.D. Hose Valve MJQC-VB4
- Panel Mount #10-32 F Valve MJQC-VFT
- Panel Mount #10-32 M Valve MJQC-VMT
- #10-32 F Cap MJQC-CFT
- 1/8" I.D. Hose Cap MJQC-CB4
- Gasket 11761-2
- Hose Samples
- Clippard 1/4" & 5/16" Wrench 11770
- #10-32 M to 1/8" I.D. CT4
- UTO-4 UTO-4004

hose \`hōz \ **n** : a flexible tube for conveying gases or fluids

tubing \`t(y)u-bing \ **n** : a stiff material in the form of a tube used for conveying gases or fluids

## Do you use a garden tube?

The answer to the question of whether to call it a tube or a hose rests on a fine line, one many people have gotten tangled up in. In both definitions it clearly states that a tube and a hose are used for conveying fluids, yet sometimes one word seems to fit the situation (and the application) better than the other. So remember...

*It's a hose when it's flexible  
and a tube when it's not.*

Clippard offers a variety of miniature hose and tubing from copper and nylon tubing to flexible urethane, vinyl and Buna-N hose. The chart below lists these products and their available colors and lengths.



Hose or Tubing Type	Size: O.D. x I.D.	Colors: Solid	Translucent
NYT1 - Single Nylon Tubing	0402 - 1/8" x 1/16"	BLS - blue	BLT - blue
VYH1 - Single Vinyl Hose	0403 - 1/8" x 3/32"	BKS - black	CLT - clear
VYH2 - Dual Vinyl Hose	0503 - 5/32" x 3/32"	BRS - brown	GNT - green
URH1 - Single 85 Duro. Urethane Hose	0804 - 1/4" x 1/8"	GNS - green	PUT - purple
URH2 - Dual 85 Duro. Urethane Hose	0805 - 1/4" x 0.160"	GYS - gray	ORT - orange
URH8 - Ribbon 85 Duro. Urethane Hose	1208 - 3/8" x 1/4"	NAS - natural	RED - red
URT1 - Single 95 Duro. Urethane Tubing		ORS - orange	YLT - yellow
PET1 - Single Polyethylene Tubing		RDS - red	02T - BLT/GNT/GYS/ORT/ PUT/RDT/WHS/YLT (ribbon only)
	Metric Sizes	WHS - white	
	0604M - 6 mm x 4 mm	YLS - yellow	
		01S - GYS/BKS (dual only)	

### Available Lengths

050 - 50 ft roll

500 - 500 ft spool

This chart is to be used as an explanation of our ordering system. See individual listings following this page for sizes and colors available.

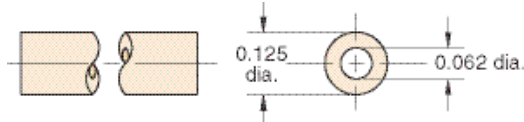
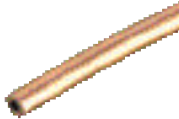




# CLIPPARD HOSE & TUBING

## 3811-1-RL

1/8" O.D. Copper Tubing



**Material:** High pressure copper

**Working Pressures:** to 2,500 psig

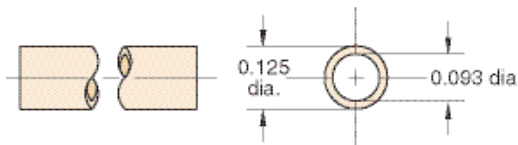
**Static Burst Pressure:** over 10,000 psig

**Lengths Available:** 50 feet

**Use With:** Ferrule tubing connectors #'s: 3810-1  
3810-2  
11923

## NYT1-0403-CLT-□

3/32" I.D. Nylon Tubing  
(Former Part No. 3814-2)



**Material:** Semi-flexible nylon tubing

**Color:** Clear / Translucent

**Working Range:** to 250 psig

**Static Burst Pressure:** Approx. 1,000 psig

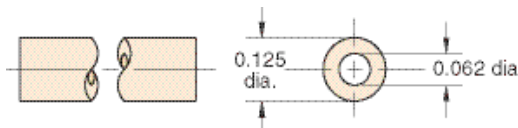
**Use With:** Ferrule tubing connectors: 11923  
3810-1  
3810-2

**Forming:** May be formed into sharp corners with heat

**Lengths Available:** 50 and 500 feet

## VYH1-0402-CLT-□

1/16" I.D. Vinyl Hose  
(Former Part No. 3814-5)



**Note:**  
Consult factory for custom colors

**Type:** Flexible, durable vinyl plastic hose

**Working Range:** 0 to 105 psig at 70°F maximum 60 psig at 80°F or above (max. temp. 100°F)

**Use With:** Hose fittings: 11752-2 and clamp 5000-4

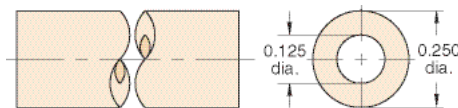
**Bend Radius:** 3x hose dia.

**Color:** Translucent: Clear

**Lengths Available:** 50 and 500 feet

## VYH1-0804-CLT-□

1/8" I.D. Vinyl Hose  
(Former Part No. 3814-1)



**Note:**  
Consult factory for custom colors

**Working Range:** 0 to 105 psig at 70°F maximum 60 psig at 80°F or above (max. temp. 100°F)

**Use With:** Hose fittings: 11752-1, 11752-3 and 11924  
Hose clamps: 5000-2

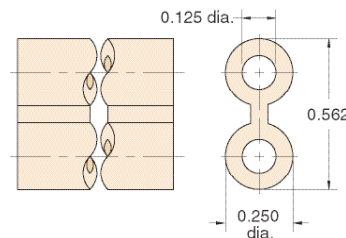
**Bend Radius:** 3x hose dia.

**Color:** Translucent: Clear

**Lengths Available:** 50 and 500 feet

## VYH2-0804-GYS-□

1/8" I.D. Twin Vinyl Hose  
(Former Part No. 3814-3)



**Type:** Flexible, durable vinyl plastic hose, but two hoses molded together, one side has rib entire length for identification

**Color:** Solid: Gray/Gray

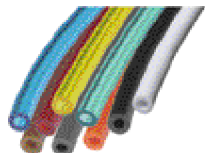
**Use Clamp:** 5000-1

**Working Range:** 0 to 150 psig at 70°F maximum 60 psig at 80°F or above (max. temp. 100°F)

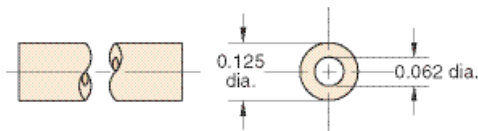
**Use:** Ideal for feeding supply in on one line and out on the other, reduces labor; makes neat assembly; may be parted with any sharp cutting edge

**Lengths Available:** 50 and 500 feet

## URH1-0402-□-□



1/16" I.D. Polyurethane Hose  
(Former Part No. 3814-7)



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Over 500 psig at 70°F

**Color:** Solid: Black, brown, white, gray, orange  
Translucent: Clear, blue, green, red, yellow

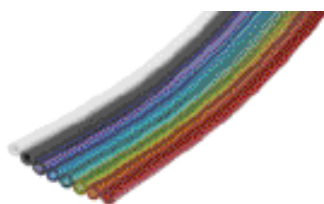
**Lengths Available:** 50 and 500 feet

**Note:** In normal application hose clamps are not required with hose when used with Clippard hose barb fittings

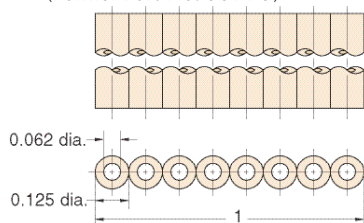
**Note:**

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, clear will be furnished.

## URH8-0402-02T-050



1/16" I.D. Polyurethane Ribbon Hose  
(Former Part No. 3814-9)



**Type:** Flexible, durable urethane hose

**Working Range:** 0 to 105 psig at 100°F maximum 120°F

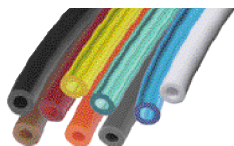
**Static Burst Pressure:** Over 500 psig at 70°F

**Color:** Solid: Gray, white  
Translucent: Blue, green, orange, purple, red, yellow

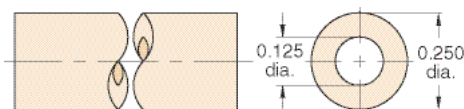
**Lengths Available:** 50 feet

**Note:** In normal application, hose clamps are not required with hose when used with Clippard hose barb fittings

## URH1-0804-□-□



1/8" I.D. Polyurethane Hose  
(Former Part No. 3814-6)



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Approximately 425 psig at 70°F

**Color:** Solid: Black, brown, white, gray, orange  
Translucent: Clear, blue, green, red, yellow

**Lengths Available:** 50 and 500 feet

**Bend Radius:** 2x hose dia.

**Note:** In normal application hose clamps are not required with hose when used with Clippard hose barb fittings

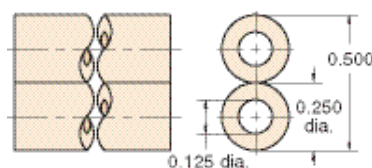
**Note:**

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, clear will be furnished.

## URH2-0804-01S-□



Twin 1/8" I.D. Polyurethane Hose  
(Former Part No. 3814-13)



**Working Range:** 0 to 105 psig at 100°F

**Static Burst Pressure:** Approximately 425 psig at 70°F

**Color:** Solid: Gray and black combination

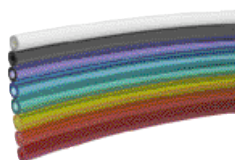
**Lengths Available:** 50 and 500 feet

**Bend Radius:** 2x hose dia.

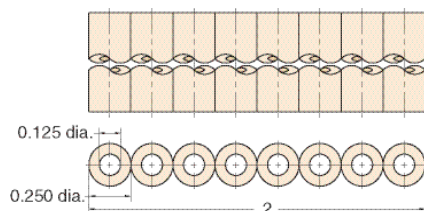
**Use:** Ideal for feeding supply in on one line and out on the other; reduces labor; makes neat assembly; may be parted with any sharp cutting edge

**Note:** In normal application, hose clamps are not required with 3814-13 hose when used with Clippard hose barb fittings

## URH8-0804-02T-050



1/8" I.D. Polyurethane Ribbon Hose  
(Former Part No. 3814-12)



**Type:** Flexible, durable urethane hose

**Working Range:** 0 to 105 psig at 100°F maximum 120°F

**Static Burst Pressure:** Over 500 psig at 70°F

**Color:** Solid: Gray, white  
Translucent: Blue, green, orange, purple, red, yellow

**Lengths Available:** 50 feet

**Note:** In normal application, hose clamps are not required with hose when used with Clippard hose barb fittings



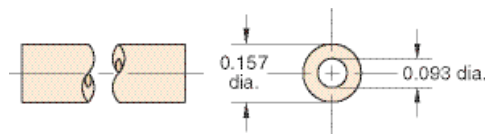


# CLIPPARD HOSE & TUBING

## URT1-0503-□-□



5/32" O.D. 95D Urethane Tubing  
Flexible, durable ether based tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Over 500 psig at 70°F

**Color:** Solid: Black, gray, orange, red, white  
Translucent: Blue, clear, green, red, yellow

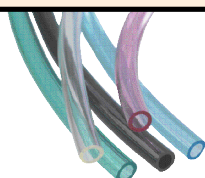
**Lengths Available:** 50 and 500 feet

**Note:** Designed for use with push-in fittings.

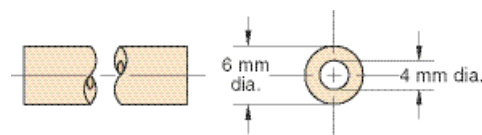
**Note:**

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, clear will be furnished.

## URT1-0604M-□-□



6 mm O.D. 95D Urethane Tubing  
Flexible, durable ether based tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Over 450 psig at 70°F

**Color:** Solid: Black  
Translucent: Blue, clear, green, red

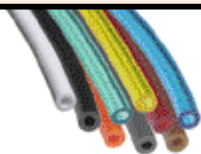
**Lengths Available:** 50 and 500 feet

**Note:** Designed for use with push-in fittings.

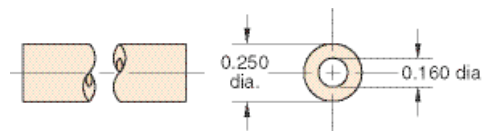
**Note:**

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, clear will be furnished.

## URT1-0805-□-□



1/4" O.D. 95D Urethane Tubing  
Flexible, durable ether based tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Over 450 psig at 70°F

**Color:** Solid: Black, gray, orange, red, white  
Translucent: Blue, clear, green, red, yellow

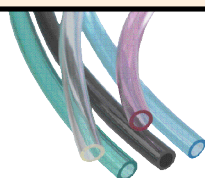
**Lengths Available:** 50 and 500 feet

**Note:** Designed for use with push-in fittings.

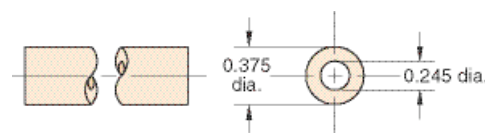
**Note:**

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, clear will be furnished.

## URT1-1208-□-□



3/8" O.D. 95D Urethane Tubing  
Flexible, durable ether based tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Over 440 psig at 75°F

**Color:** Solid: Black  
Translucent: Blue, clear, green, red

**Lengths Available:** 50 and 500 feet

**Note:** Designed for use with push-in fittings.

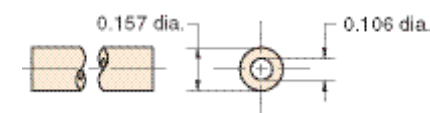
**Note:**

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, clear will be furnished.

## PET1-0503-□-□



5/32" O.D. Polyethylene Tubing  
Linear low density tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Over 540 psig at 75°F

**Colors:** Solid: Black or Natural

**Lengths Available:** 50 and 500 feet

**Bend Radius:** 1/2"

**Note:** Designed for use with push-in fittings.

**Note:**

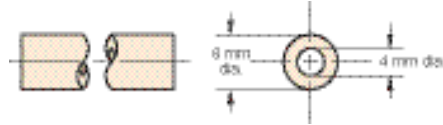
Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, natural will be furnished.

## PET1-0604M-□-□



### 6 mm O.D. Polyethylene Tubing

Linear low density tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Approximately 560 psig at 75°F

**Colors:** Solid: Black or Natural

**Lengths Available:** 50 and 500 feet

**Bend Radius:** 1 1/4"

**Note:** Designed for use with push-in fittings

#### Note:

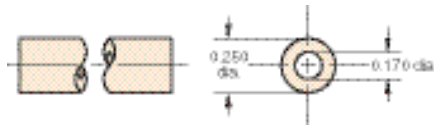
Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, natural will be furnished.

## PET1-0805-□-□



### 1/4" O.D. Polyethylene Tubing

Linear low density tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Approximately 480 psig at 75°F

**Colors:** Solid: Black or Natural

**Lengths Available:** 50 and 500 feet

**Bend Radius:** 1 1/4"

**Note:** Designed for use with push-in fittings

#### Note:

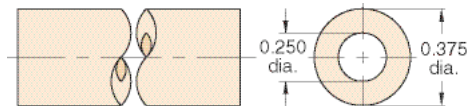
Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, natural will be furnished.

## PET1-1208-□-□



### 3/8" O.D. Polyethylene Tubing

Linear low density tubing



**Working Range:** 0 to 105 psig at 100°F Maximum 120°F

**Static Burst Pressure:** Approximately 600 psig at 75°F

**Colors:** Solid: Black or Natural

**Lengths Available:** 50 and 500 feet

**Bend Radius:** 2"

**Note:** Designed for use with push-in fittings

#### Note:

Specify color on order, and use full product number (including code letters for color) as shown in Price List. If no color is specified, natural will be furnished.



# CLIPPARD CLAMPS

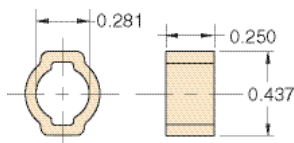
## 5000-1



### Quick Set Hose Clamps

**Type:** Zinc plated steel

**Use:** 5000-1 with Buna N hose  
twin vinyl hose



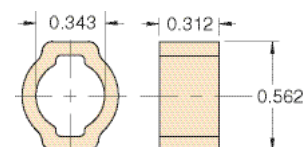
## 5000-1A



### Quick Set Hose Clamps

**Type:** Zinc plated steel

**Use:** 5000-1A with braided hose



## 5000-2



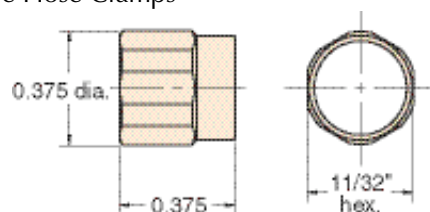
### Reusable Hose Clamps

**Material:** Brass, self-threading, reusable

**Use With:** 11765 Buna-N hose 3814- vinyl hose and  
Clippard hose fittings

**Installation:** Slip sleeve over hose, push onto fitting,  
then screw into place; tighten with wrench

**Options:** (-NP)



## 5000-4



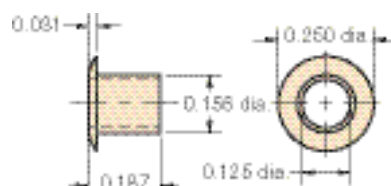
### Press-On Hose Clamp

**Material:** Brass, press-on hose clamp

**Use:** for 3814-5 hose 1/16 I.D. vinyl

**Installation:** Simply place hose clamp over hose with  
flange end out; then press hose partially onto fitting,  
then slide clamp back toward fitting to secure

**Options:** (-NP)



## Polyethylene vs Vinyl vs Polyurethane

Polyurethane offers a wider range of chemical compatibility than Vinyl, it may be used at much higher temperatures and clamps are not needed when used with barb fittings. Linear low density polyethylene offers a lower cost alternative to polyurethane and superior environmental stress crack resistance over standard polyethylene. Both polyurethane and polyethylene are FDA approved.

## Typical Hose & Tubing Bend Radii

When using hose or tubing, care should always be taken to avoid sharp bends to prevent compressing the inside diameter of the hose or tubing and restricting flow. For extremely close connections, allow a short loop of hose to avoid crimping.

Clippard Hose or Tubing		I.D.	O.D.	Min. Bend Radius
3811-1	Copper Tube	1/16"	1/8"	3 x dia.
NYT1-XXX	Nylon Tubing	3/32"	1/8"	3 x dia.
VYH1-XXX	Vinyl Hose	1/16"	1/8"	3 x dia.
VYH1-XXX	Vinyl Hose	1/8"	1/4"	2 x dia.
VYH2-XXX	Dual Vinyl Hose	1/8"	1/4"	2 x dia.
URH1-XXX	85 Duro. Urethane Hose	1/16"	1/8"	2 x dia.
URH8-XXX	Ribbon 85 Duro. Urethane	1/16"	1/8"	-
URH1-XXX	85 Duro. Urethane Hose	1/8"	1/4"	2 x dia.
URH2-XXX	Dual 85 Duro. Urethane	1/8"	1/4"	3 x dia.
URH8-0804-XXX	Ribbon 85 Duro. Urethane	1/8"	1/4"	-
URT1-0503-XXX	95 Duro. Urethane Tubing	3/32"	5/32"	3 x dia.
URT1-0604M-XXX	95 Duro. Urethane Tubing	4 mm	6 mm	2 x dia.
URT1-0805-XXX	95 Duro. Urethane Tubing	0.160"	1/4"	2 x dia.
URT1-1208-XXX	95 Duro. Urethane Tubing	0.245"	3/8"	3 x dia.
PET1-0503-XXX	Polyethylene Tubing	0.106"	5/32"	3 x dia.
PET1-0604M-XXX	Polyethylene Tubing	4 mm	6 mm	5 x dia.
PET1-0805-XXX	Polyethylene Tubing	0.170"	1/4"	5 x dia.
PET1-1208-XXX	Polyethylene Tubing	1/4"	3/8"	5 x dia.