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.

## Clippard Minimatic

### 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.

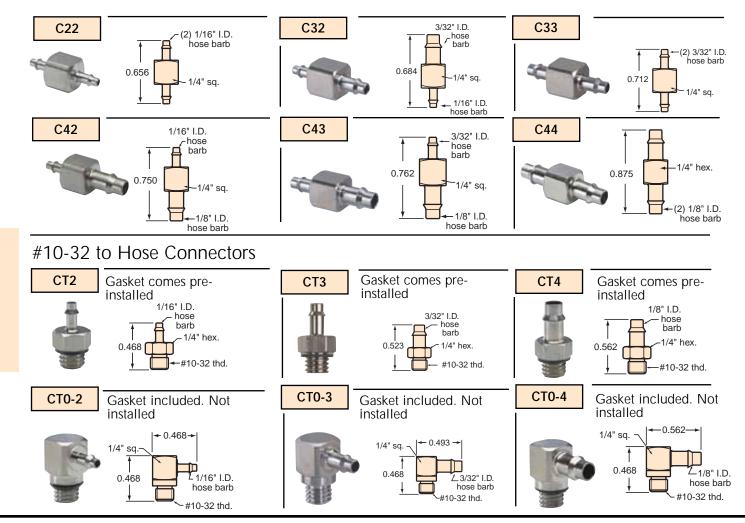
Minimatic slip-on fittings are available in a wide variety of

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. Buna-N gasket included with #10-32 threads except when ordered in bulk.

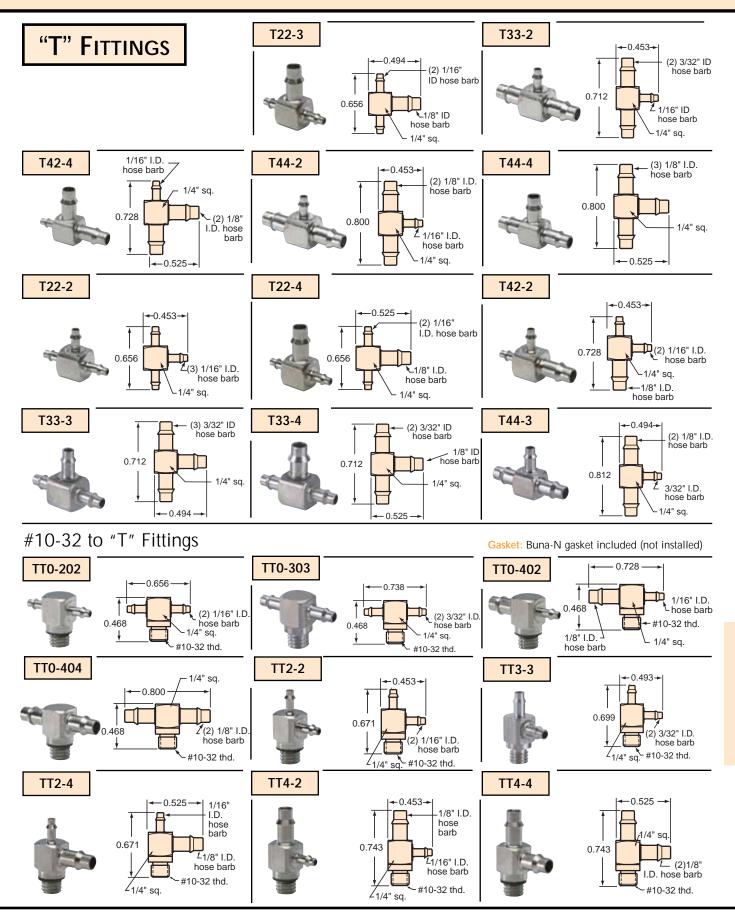
### **Features**

- Single barb design for quick and easy positive seal
- · Miniature size provides low profile
- · Multiple configurations for every need
- Brass 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

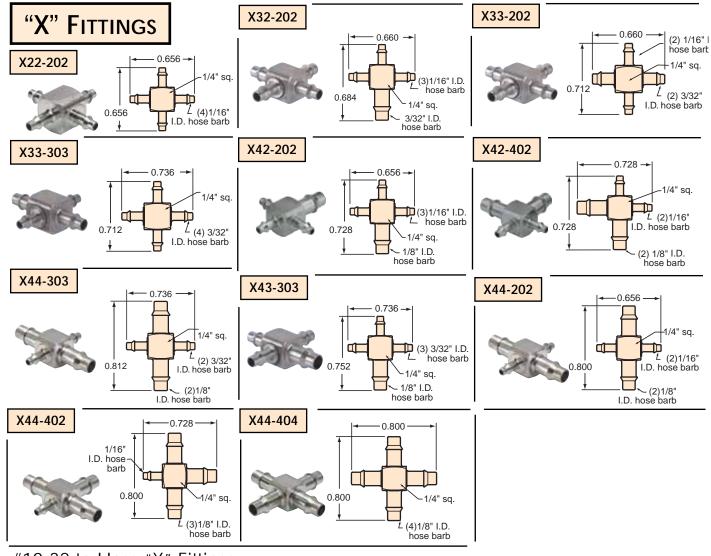
## **CONNECTOR FITTINGS**





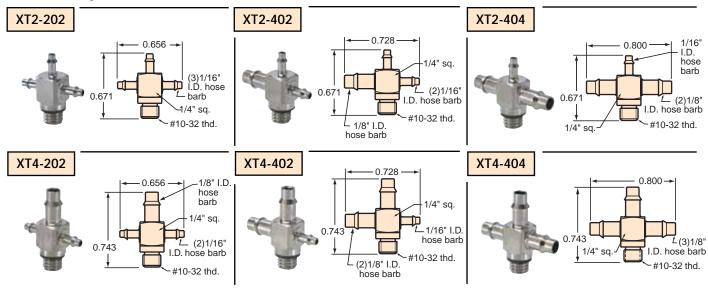




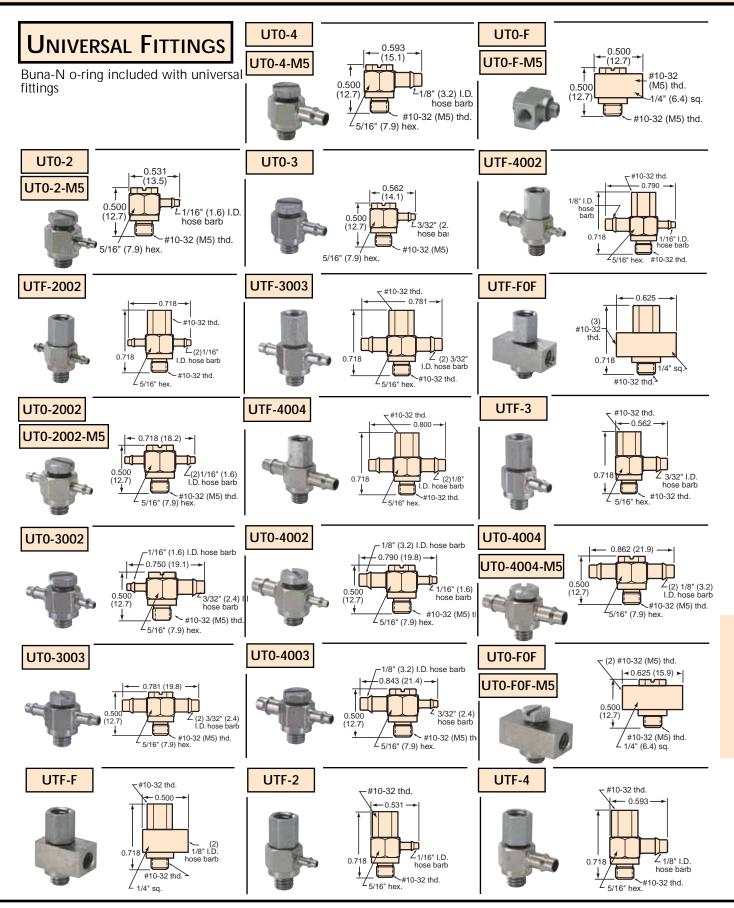


#10-32 to Hose "X" Fittings

Gasket: Buna-N gasket included (not installed)

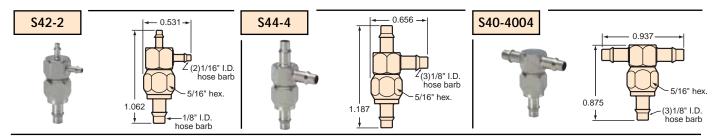




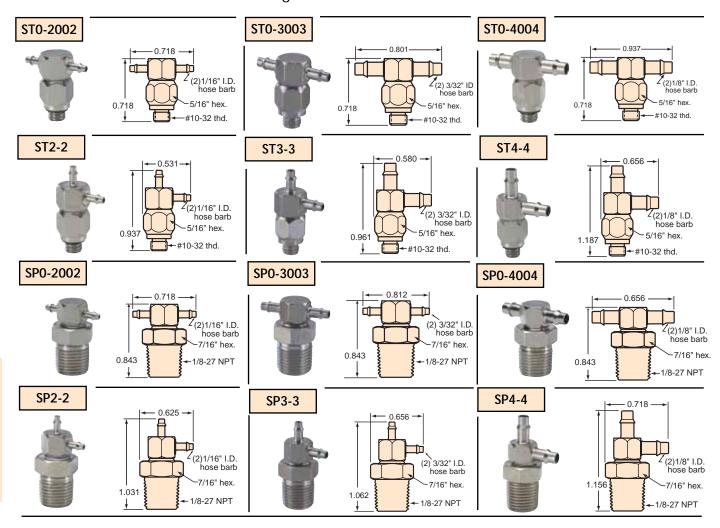




## **SWIVEL FITTINGS**



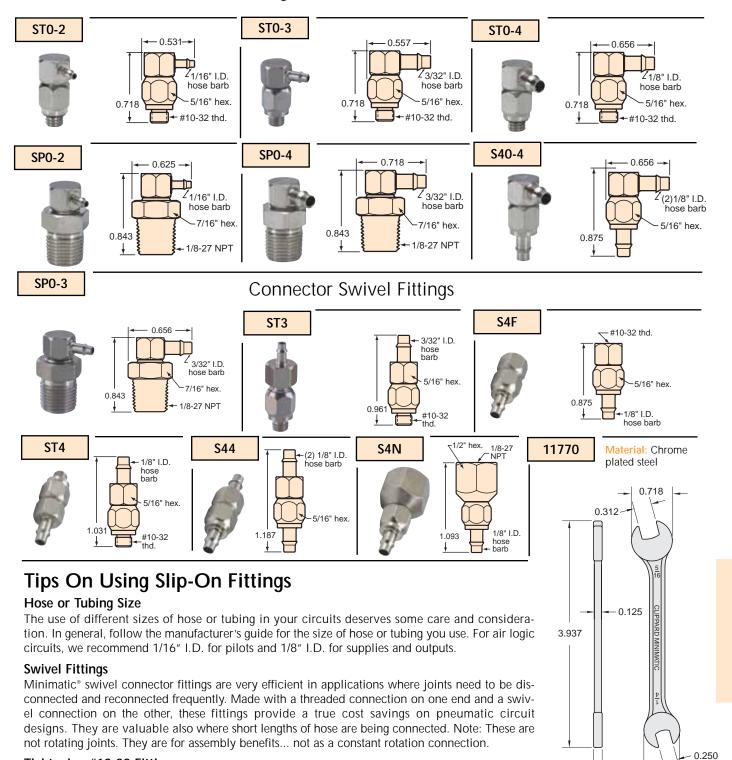
#10-32 to Hose Swivel "T" Fittings



**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



### 311

0.281

0.625

wrench #11770 with a 1/4" and 5/16" open-end.

TIGHTEN WITH CARE. Often a "finger tight" connection between Clippard fittings with anaerobic 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

Tightening #10-32 Fittings

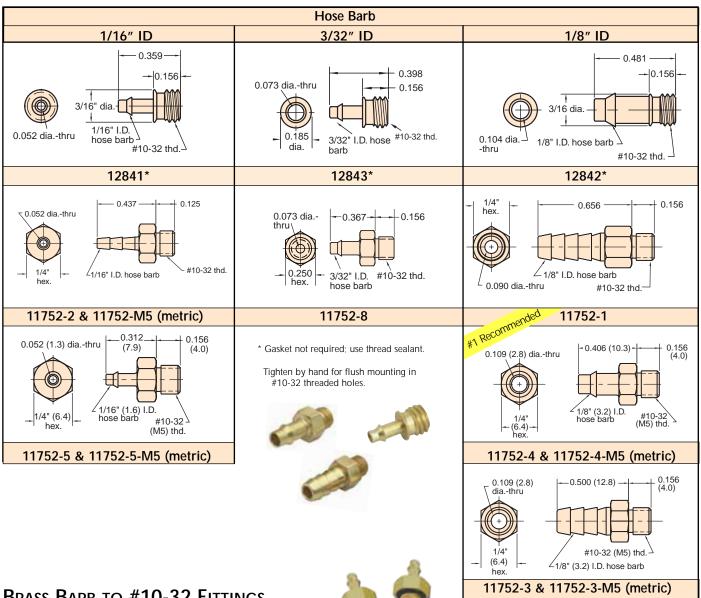


### Brass Barb to #10-32 Fittings

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)

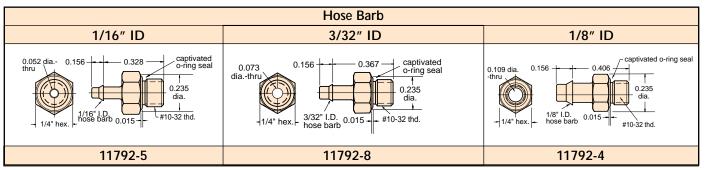


# Brass Barb to #10-32 Fittings with Captivated O-Rings

Material: Brass Seal: Buna-N o-ring furnished installed



Options: (-NP)



# Brass Barb to Pipe Fittings



Material: Brass

Thread: Standard Pipe Thread

Options: (-NP)









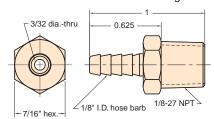
External	Hose Barb(s)						
Thread	1/16" ID	3/32" ID	1/8" ID	1/4" ID			
1/16" NPT Thread (5/16" Hex.) Part No.	0.490 1CJ2	0.710 0.710 1 1 CJ3	0.800 0.906 0.906 11924-2				
1/8" NPT Thread (7/16" Hex.)	0.740	0.773	0.860	5/32" hex 0.625 -			
Part No.	2CP2	2CP3	2CP4 11924-1*	12844			
1/4" NPT Thread (9/16" Hex.)	0.770	0.804	0.890	5/32" hex 0.625			
Part No.	4CQ2	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.			
Part No.	6CW2	6CW3	6CW4				
1/2" NPT Thread (13/16" Hex.)	1.020	1.054	1.140				
Part No.	8CZ2	8CZ3	8CZ4				



## **BRASS BARB FITTINGS**

## 11924-1

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



Material: Brass

Thread: 1/8" NPT

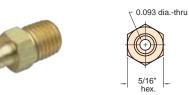
Use: Joins standard pipe to 1/8" I.D. hose

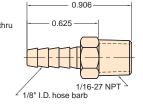
Options: (-NP), (-MG)



# 11924-2

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





Material: Brass

Thread: 1/16" NPT

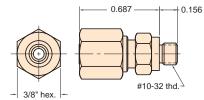
Use: Joins standard pipe to 1/16" I.D. hose

Options: (-NP)



11923

#10-32 to 1/8" O.D.Tube Compression Fitting



Material: Brass Thread: #10-32

For Tubing: 3811-1 copper 3814-2 nylon

3014-2 Hy

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.

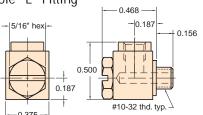
## MINIMATIC® X T L FITTINGS



## 15002-1



Adjustable "L" Fitting Mater



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)

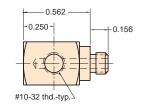


# 15002-2



"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)

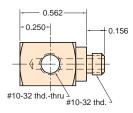


15002-3



"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

precise positioning use thread:

Options: (-NP)

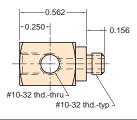


15002-4



"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

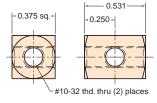
Options: (-NP)



15002-5



"X" Coupling



Material: Brass

Thread: #10-32

Use: Ideal as small manifold.

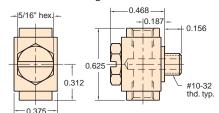
Options: (-NP)



## 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

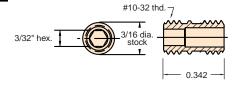
Thread: #10-32

Seals: Loctite necessary

Use: Excellent for a surface to surface connection of

female #10-32 products





15010

#10-32 Extension Fitting

5/16" hex.

0.093 dia.-thru

Material: Brass

Thread: #10-32

0.156

#10-32 thd. typ.

0.343

0.156

0.187

Gasket: Buna-N furnished

Use: To provide extension for convenience in

assembling components

Options: (-NP)



15004

#10-32 Female Hex Coupling

(6.4)

hex

Material: Brass

Thread: #10-32 tapped (M5)

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

Options: (-NP), (-M5)



11999

#10-32 Male Connector

#10-32 (M5) thd.-thru

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

 $\angle_{0.090 \text{ dia.-thru}} \angle_{#10-32 \text{ thd. typ.}}$ 

 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



1/16-27 NPT

3/8" hex.

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

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



### **Brass Fittings**



**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.

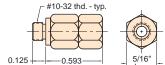
Note: These are not rotating joints. They are assembly benefits . . . not to be used as a constant rotation junction.

-1/8" I.D. hose barb

15040

#10-32 Swivel Fitting





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)

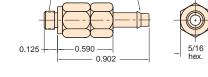
Use: Allows connection to rotate for tightening in confined spaces

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

Note: Used for positioning not for rotary connector

Options: (-NP)





#10-32 thd

#10-32 thd

0.125

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)



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

1/8" I.D. hose barb

Material: Brass

Thread: 1/8-27 NPT Seals: Buna-N o-ring

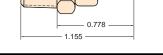
Use: Allows connection to rotate for tightening in

confined spaces Hose Barb: 1/8" I.D. hose

Note: Used for positioning not for rotary connector

Options: (-NP)



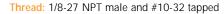




15060

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

Material: Brass



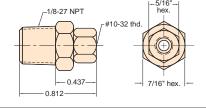
Seals: Buna-N o-ring

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

Note: Used for positioning not for rotary connector

Options: (-NP)









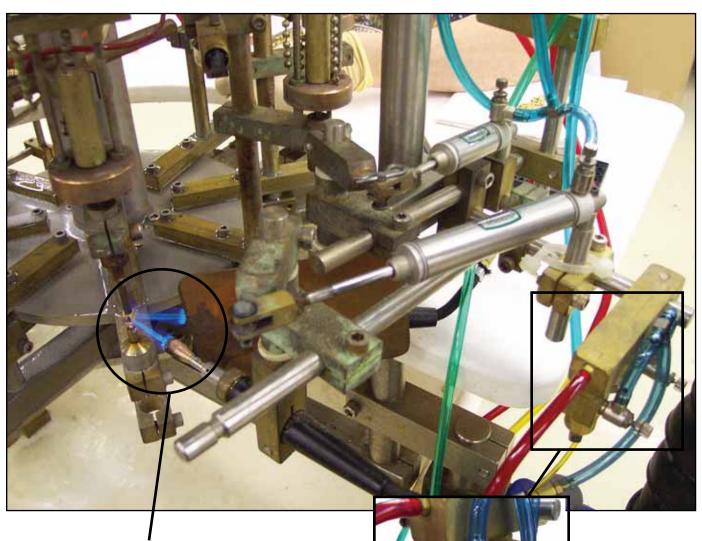
2

### **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

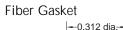
### Buna-N Gasket

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



Material: Cellulose fiber & SBR latex

Use: Designed for use with #10-32 threads in high temperature applications

Temperature Range: -40 to +350° F



-0.312 dia.

11761-4

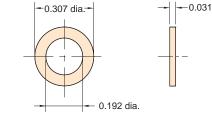


Material: Nylon

Use: Designed for use with #10-32 threads in applications that require nylon for chemical compatibility

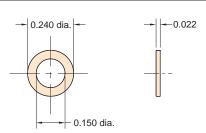
Temperature Range: +40 to +200° F





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. 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 -0.125 0.062 I.D. hose barb -0.187--0.062 < 0.046 dia.-thru 0.187 sa  $\angle$  #3-56 thd. typ. 1/8"  $^{\perp}$  #3-56 thd. 0.250 11749-1 11749-3 -0.125-0.187 sa 0.187 sa ∠#3-56 thd. #3-56 thd. typ. **-**0.250 ⋅ 0.250 Material: Nickel plated brass body sintered stainless 15070 #10-32 Muffler steel muffler (60 micron) #10-32 thd. Thread: #10-32 0.312 dia. Gasket: Buna-N furnished Use: To muffle exhausts for quiet system operation 0.156 0.812 1/8" NPT Muffler 15080 Material: Solid brass body; sintered stainless steel insert (100 micron) 1/8-27 NPT Thread: 1/8" NPT Use: To muffle exhaust for quiet system operation Options: (-NP) 0.250 0.437 9/16" hex. #10-32 Screw Plug Material: Brass 11755 #10-32 (M5) thd. Thread: #10-32 (M5) Gasket: Buna-N furnished package only Use: For plugging unused ports in manifolds, air lines and other devices 0.156 (4.0) Options: (-NP), (-M5) (6.4)0.281 #10-32 Headless Screw Plug Material: Stainless Steel screw plug 0035-2 Thread: #10-32 #10-32 thd. Use: For plugging unused ports in manifold, air lines and other devices that require a flush surface plug;

-0.125

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)

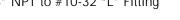
External	Internal Thread					
Thread	#10-32	#10-32	1/16" NPT	1/8" NPT	1/4" NPT	3/8" NPT
1/16" NPT Thread (5/16" Hex.) Part No.		0.468 typ.				
Part NO.		ICJF				
1/8" NPT Thread (7/16" Hex.)	0.250 typ.	0.531 typ.				
Part No.	15036*	2CPF	2CPK			
1/4" NPT Thread (9/16" Hex.)		0.562 typ.				
Part No.		4CQF	4CQK	4CQN		
3/8" NPT Thread (11/16" Hex.) Part No.		0.687 typ. 6CWF	6CWK	6CWN	6CWY	
1/2" NPT Thread (13/16" Hex.)		0.812 typ.				
Part No.		8CZF	8CZK	8CZN	8CZY	8CZD



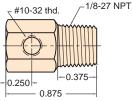
### **ADAPTER & BULKHEAD FITTINGS**

## 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

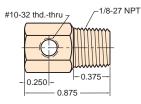
Options: (-NP)



# 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

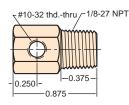
Options: (-NP)



15090-3

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





Material: Brass

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

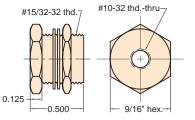
Use: To provide connections between the two thread sizes; can be used as a miniature manifold

Options: (-NP)



15027

#10-32 Bulkhead Fitting



Material: Brass

Thread: #10-32 tapped both ends

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

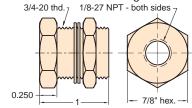
Use: Provides rigid connection thru panels or bulkheads up to 1/4" thick; use with any Clippard #10-32

threaded fitting or connector



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

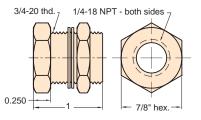
Use: Provides rigid connection thru panels or bulkheads up to 1/2" thick



# 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

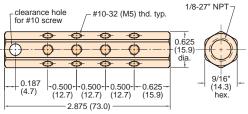


### **MANIFOLDS**



# **MAN-12**





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 any Clippard #10-32 fittings, quick connects and many other devices; unused ports can be plugged with screw plug 11755 -1111

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

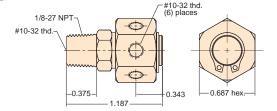
consists of 6 ports tapped #10-32

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





-|0.50 typ.|-

-0.750

#10-32 thd.- 0.250 deep typ. "no. of ports" places

0.250

0.250

0.50 sq.

**15028-**□

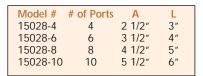
Miniature Terminal Blocks

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





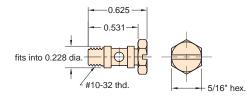
15028-4 pictured above

### Miniature Manifold Stud

#10-32 thd -thru typ. "no. of ports" places



12292



Material: Stainless steel

Thread: #10-32

Seals: Buna-N o-ring and gasket furnished

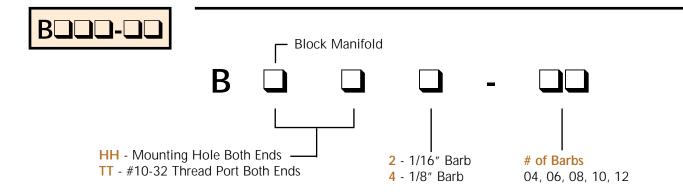
Use: This hollow, cross-drilled stud is useful for connecting specially made manifolds to multiple ports of valves or cylinders, eliminating need for external fittings with hose

### Tips On Using Minimatic® Fittings

#### Hose or Tubing Size

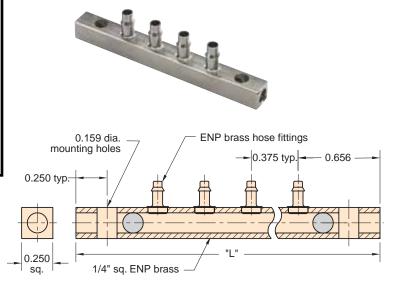
The use of different sizes of hose or tubing in your circuits deserves some care and consideration. In general, follow this guide for the size of hose or tubing you use.

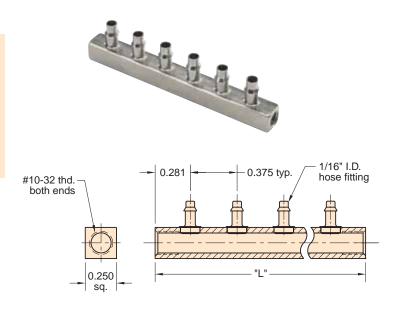
For air logic circuits, we recommend: 1/16" I.D. for pilots 1/8" I.D. for supplies and outputs



Г	Part #	# of Stations	Fitting Size
ı	BHH2-04	4	
l	BHH2-06	6	
l	BHH2-08	8	1/16" I.D. Hose Barb
l	BHH2-10	10	
	BHH2-12	12	
ı	BHH4-04	4	
l	BHH4-06	6	
l	BHH4-08	8	1/8" I.D. Hose Barb
	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		
BTT2-06	6		
BTT2-08	8	1/16" I.D. Hose Barb	
BTT2-10	10		
BTT2-12	12		
BTT4-04	4		
BTT4-06	6		
BTT4-08	8	1/8" I.D. Hose Barb	
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® FITTINGS KITS

UTO-F (L)

S4F





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



• STO-4004

 Gasket 11761-2 Hose Samples

Clippard 1/4" & 5/16" Wrench 11770

Contains:	
<ul> <li>CTO-2</li> </ul>	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
<ul> <li>CTO-4</li> </ul>	Connector L 1/8" I.D. Hose to M #10-32
<ul> <li>UTO-4</li> </ul>	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

 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 1/8" I.D. Hose to 1/8" I.D. Hose S44 ST4 1/8" I.D. Hose to M #10-32

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

UTO-FOF (T) Universal M #10-32 to F #10-32

Universal M #10-32 to F #10-32

Swivel 1/8" I.D. Hose T with M #10-32



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

<ul><li>#10-32 Extension Fitting</li></ul>	15010
<ul> <li>1/8" M NPT to 1/8" I.D. Hose Adapter</li> </ul>	11924-1
•	
<ul> <li>Adjustable #10-32 L Fitting</li> </ul>	15002-1
• #10-32 X Fitting	15002-4
<ul> <li>Female #10-32 Hex Connector</li> </ul>	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
<ul><li>#10-32 M Short Coupling</li></ul>	11999
<ul> <li>#10-32 to 1/8" I.D. Hose Fitting</li> </ul>	11752-3
<ul> <li>Gasket</li> </ul>	11761-2
<ul> <li>12 Port Manifold</li> </ul>	MAN-12
<ul> <li>Clippard 1/4" &amp; 5/16" Wrench</li> </ul>	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