

Fittings & Tubing



MINIMATIC® FITTINGS

- *Barb Connectors*..... p. 182
- *Elbow Barb Fittings*..... p. 183
- *#10-32 Branch Tees*..... p. 183
- *Cross Fittings*..... p. 184
- *Nipples and Couplings*..... p. 184
- *L, T, X Fittings*..... p. 184
- *#10-32 Run Tee*..... p. 183
- *NPT to Barb Connectors*..... p. 184
- *Pipe Reducers*..... p. 187
- *Screw Plugs*..... p. 184
- *Bulkhead Fittings*..... p. 184
- *Compression Fittings*..... p. 187

STAINLESS STEEL PUSH-QUICK FITTINGS

- *High corrosion and chemical resistance*
 - *Ideal for high temperature applications*
 - *Tubing sizes 5/32" to 3/8"*
 - *Large variety of thread sizes*
- p. 185

PLASTIC RESIN PUSH-QUICK FITTINGS

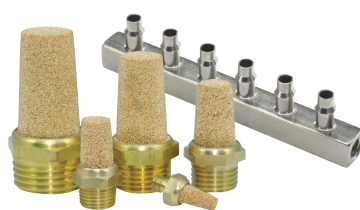
- *Provide higher flow capability*
 - *For use with flexible hose and stiff tubing*
 - *9 tubing and 10 thread sizes*
 - *Choose from over 25 unique styles*
- p. 186



QUICK-CONNECT ASSEMBLIES

- Easy connection in tight spaces without disconnecting tubing
- Includes check valve to close when disconnected

p. 187



ACCESSORIES

- Terminal Blocks
- Manifolds
- Mufflers
- Hose Clamps
- Fittings Kits

p. 187



HOSE & TUBING

- Vinyl, polyurethane, and silicone
- Single, dual, and ribbon styles
- Choose from a large variety of sizes and colors

p. 188

MINIMATIC® FITTINGS

BARB CONNECTORS

	Part No.	Barb (I.D.)	Material	
	#3-56 Male to 1/16" Barb 1/8" Hex	11750-2	1/16"	Brass
	#10-32 Male to Single Barb, 1/4" Hex	11752-5 11752-8 11752-4 CT2 CT3 CT4	1/16" 3/32" 1/8" 1/16" 3/32" 1/8"	Brass Brass Brass ENP Brass ENP Brass ENP Brass
	#10-32 Male to Multi-Barb, 1/4" Hex	11752-2 11752-3 11752-1	1/16" 1/8" 1/8"	Brass Brass Brass
	#10-32 Male to Barb, 1/4" Hex (Capt. O-Rings)	11792-5 11792-8 11792-4	1/16" 3/32" 1/8"	Brass Brass Brass
	#10-32 Male to Barb, 5/16" Hex (Capt. O-Rings)	11782-5-ENP 11782-4-ENP	1/16" 1/8"	ENP Brass ENP Brass
	#10-32 Male Flush to Barb	12841 12843 12842	1/16" 3/32" 1/8"	Brass Brass Brass
	#10-32 Male to Barb	15045*	1/8"	Brass

*Not to be used as a constant rotation junction

Minimatic barb fittings provide a flexible, easy alternative to ferrule and push-to-connect design fittings. Electroless nickel plating provides corrosion resistance in applications involving high moisture. Nitrile gasket included with #10-32 threads except when ordered in bulk.

- In stock and ready to ship
- Low cost
- Miniature size provides low profile
- Holds to the burst pressure of polyurethane hose
- Low leak potential

	Part No.	Barb (I.D.)	Material	
	#10-32 Female to Barb	CF2 CF3 CF4	1/16" 3/32" 1/8"	ENP Brass ENP Brass ENP Brass
	Barb-to-Barb	C22 C32 C42 C33 C43 C44	1/16-1/16" 1-16-3/32" 1/16-1/8" 3/32-3/32" 3/32-1/8" 1/8-1/8"	ENP Brass ENP Brass ENP Brass ENP Brass ENP Brass ENP Brass
	1/8" NPT Male Swivel	15055*	1/8"	Brass
	Male NPT Flush Fitting	12844 12845	1/4" (1/8 NPT) 1/4" (1/4 NPT)	Brass Brass

Requires thread sealant.

All barbs are noted in I.D.




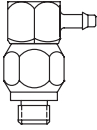
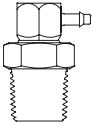
GASKETS

Designed for use with #10-32 threads

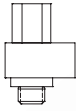
	Material	Part No.	O.D.	I.D.
	Nitrile	11761-2	0.240	0.150
	FKM	11761-8	0.240	0.150
	Nylon	11761-4	0.307	0.192
	EPDM	11761-7	0.240	0.150

MINIMATIC® FITTINGS

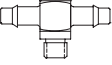
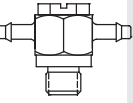
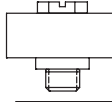
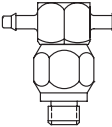
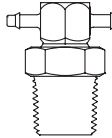
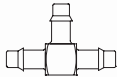
ELBOW BARB FITTINGS

	Part No.	Barb (I.D.)	Material
	#10-32 Male to Barb	CTO-2 1/16"	ENP Brass
		CTO-3 3/32"	ENP Brass
		CTO-4 1/8"	ENP Brass
	#10-32 Male to Barb Universal	UTO-2 1/16"	ENP Brass
		UTO-3 3/32"	ENP Brass
		UTO-4 1/8"	ENP Brass
	Universal #10-32	UTO-F	ENP Brass
	#10-32 Male to Barb Swivel	STO-2 1/16"	ENP Brass
		STO-3 3/32"	ENP Brass
		STO-4 1/8"	ENP Brass
	1/8" NPT Male to Barb Swivel	SPO-2 1/16"	ENP Brass
		SPO-3 3/32"	ENP Brass
		SPO-4 1/8"	ENP Brass

#10-32 RUN TEE

Part No.	Material
 UTF-F	ENP Brass

#10-32 BRANCH TEES

	Part No.	Barb (I.D.)	Material
	#10-32 Male to Barb	TT0-202 1/16"	ENP Brass
		TT0-303 3/32"	ENP Brass
		TT0-402 1/8"-1/16"	ENP Brass
		TT0-404 1/8"	ENP Brass
	#10-32 Male Universal	UTO-2002 1/16"	ENP Brass
		UTO-3002 1/16-3/32"	ENP Brass
		UTO-3003 3/32"	ENP Brass
		UTO-4002 1/8-1/16"	ENP Brass
	#10-32 Male Universal	UTO-4003 1/8-3/32"	ENP Brass
		UTO-4004 1/8"	ENP Brass
		UTO-F0F -	ENP Brass
	#10-32 Male Swivel	STO-2002 1/16"	ENP Brass
		STO-3003 3/32"	ENP Brass
		STO-4004 1/8"	ENP Brass
	1/8" NPT Male Swivel	SPO-2002 1/6"	ENP Brass
		SPO-3003 3/32"	ENP Brass
		SPO-4004 1/8"	ENP Brass
	Barb-to-Barb	T22-2 1/16"	ENP Brass
		T22-3 1/16 - 3/32 - 1/16"	ENP Brass
		T22-4 1/16 - 1/8 - 1/16"	ENP Brass
		T33-2 3/32 - 1/16 - 3/32"	ENP Brass
		T33-3 3/32"	ENP Brass
		T33-4 3/32 - 1/8 - 3/32"	ENP Brass
		T44-2 1/8 - 1/16 - 1/8"	ENP Brass
		T44-3 1/8 - 3/32 - 1/8"	ENP Brass
	T44-4 1/8"	ENP Brass	

All barbs are noted in I.D.

Hose/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/tubing you use. For air logic circuits, we recommend 1/16" ID for pilots and 1/8" ID for supplies and outputs.

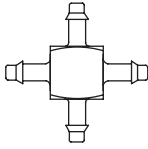
Tightening #10-32 Fittings. TIGHTEN WITH CARE. Often a "finger tight" connection between Clippard fittings with anaerobic sealant is all that is required. When using a gasket, most Clippard #10-32 threaded fittings require no more than 9 inch-pounds of torque to seal. We recommend that this force not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

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.





MINIMATIC® FITTINGS


CROSS FITTINGS

	Part No.	Barb	Material	
	Barb-to-Barb	X22-202	1/16"	ENP Brass
	X44-202	1/16 - 1/8 - 1/16 - 1/8"	ENP Brass	
	X44-402	1/16 - 1/8 - 1/8 - 1/8"	ENP Brass	
	X33-202	3/32 - 1/16 - 3/32 - 1/16"	ENP Brass	
	X33-303	3/32"	ENP Brass	
	X44-303	3/32 - 1/8 - 3/32 - 1/8"	ENP Brass	
	X44-404	1/8"	ENP Brass	

L, T, X FITTINGS

	Part No.	Porting	Material	
	#10-32 "X" Coupling	15002-5	X	Brass
	#10-32 to #10-32 Fittings	15002-2	L	Brass
		15002-3	T	Brass
		15002-4	X	Brass
	Adjustable #10-32 "L" Fitting	15002-1	L	Brass and Stainless Steel
	Adjustable #10-32 "T" Fitting	15002-6	T	Brass and Stainless Steel
	Miniature #10-32 Manifold Stud	12292	-	Stainless Steel
	1/8" NPT to #10-32 Adapter Fittings	15090-1	L	Brass
		15090-2	T	Brass
		15090-3	X	Brass








BULKHEAD FITTINGS

	Part No.	External Thd.	Internal Thd.	
	Bulkhead Fittings	15027	#15/32-32	#10-32
	15029-1	3/4-20	1/8" NPT	
	15029-2	3/4-20	1/4" NPT	

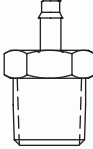
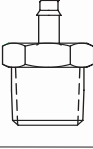
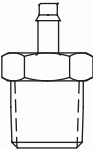

#10-32 THREAD SCREW PLUGS

Part No.	Material
11755	Brass
11755-ENP	ENP Brass
11782-7-ENP	ENP Brass
0035-2	Captivated O-Ring Stainless Steel

#10-32 NIPPLES & COUPLINGS

	Part No.	Material	
	#10-32 Male Nipple	15453	Stainless Steel
	#10-32 Male Nipple	11999	Brass
	#10-32 Female Hex Coupling	15004	Brass
	#10-32 Extension Fitting	15010	Brass
	#10-32 Swivel Fitting	15040	Brass
	1/8" NPT Male to #10-32 Swivel Adapter	15060	Brass
	1/8" NPT Female to #10-32 Swivel Adapter	15050	Brass

NPT TO BARB CONNECTORS

	Part No.	Thread	Material	
	1/16" Barb to Male NPT	1CJ2	1/16"	Brass
		2CP2	1/8"	Brass
		4CQ2	1/4"	Brass
	3/32" Barb to Male NPT	1CJ3	1/16"	Brass
		2CP3	1/8"	Brass
		4CQ3	1/4"	Brass
	1/8" Barb to Male NPT	1CJ4	1/16"	Brass
		2CP4	1/8"	Brass
		4CQ4	1/4"	Brass
	1/8" Barb to 1/8" Male NPT	11924-1	1/8"	Brass

All barbs are noted in I.D.

PUSH-QUICK FITTINGS











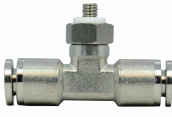

STAINLESS STEEL

Constructed of high grade 316 stainless steel, these durable fittings provide a simple push-pull method of connecting pneumatic components to each other and system piping. Push-Quick fittings allow full flow through the hose/tubing I.D. with no smaller orifice required as in barb fittings. They are designed for use with both flexible hose and stiff tubing made of nylon, polyurethane, polyethylene or polypropylene. Many styles and sizes are available.

For more information, visit clippard.com/link/ss-pq

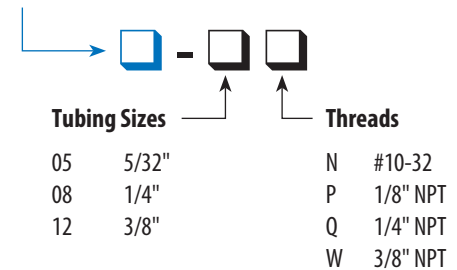
Medium	Air, inert gas, water, liquid, or oil
Pressure Range	0 to 250 psig @ 75°F
Vacuum	0 to 29.5" Hg
Tube Pull-Out Force @ 75° (non-pressurized)	1/8" - 5/32": >10 lb.; 1/4" - 1/2": >20 lb.
Temperature Range	5 to 230°F
Materials	316 stainless steel, FKM seals

- Provides high corrosion and chemical resistance
- FDA approval for use in food environments
- Ideal for high temperature applications
- Small, compact design
- Complete selection of hose and tubing available online at clippard.com

Threaded Fittings		Non-Threaded Fittings	
Female Connectors PQS-FC		Straight Unions PQS-SU	
Male Connectors PQS-MC		Reduced Unions PQS-RU	
Bulkhead Connectors PQS-BC		Elbow Unions PQS-EU	
Male Elbows PQS-ME		Tee Unions PQS-TU	
Run Tees PQS-RT		Bulkhead Unions PQS-BU	
Branch Tees PQS-BT		Stem Couplers PQS-SC	

ORDERING INFORMATION

Base Part No.



*See clippard.com/link/ss-pq for specific part numbers and ordering information



PUSH-QUICK FITTINGS

PLASTIC RESIN

Push-quick fittings provide a simple method of connecting pneumatic components to each other and system piping. They provide higher flows than barbed fittings and are designed for use with flexible hose or stiff tubing made of nylon, urethane, polyethylene or polypropylene. The 5/32" fittings may be used with 4 mm O.D. tubing.

For more information, visit clippard.com/link/pq

Pressure Range	0 - 150 psig @ 130°F
Vacuum	0 to 29.5" Hg
Temperature Range	32 to 140°F
Media	Air or non-corrosive water
Tube Pull Out Force	1/8" - 5/32": >10 lb.; 1/4" - 1/2": >20 lb. @ 75° (non pressurized)

ORDERING INFORMATION

Base Part No.



Tubing Sizes		Threads
04	1/8"	N #10-32
04M	4 mm	5 M5
05	5/32"	6 M6
06M	6 mm	P 1/8" NPT
08	1/4"	R R1/8
08M	8 mm	Q 1/4" NPT
10	5/16"	2 R1/4
12	3/8"	W 3/8"
16	1/2"	3 R3/8
		Z 1/2" NPT

Plastic Plugs

May be used to plug a push-quick fitting port for later use

Part No.	Description
PQ-PG04	1/8" O.D. Tube
PQ-PG05	5/32" O.D. Tube
PQ-PG06M	6 mm O.D. Tube
PQ-PG08	1/4" O.D. Tube
PQ-PG10	5/16" O.D. Tube
PQ-PG12	3/8" O.D. Tube

Threaded Fittings		Non-Threaded Fittings	
Female Connectors PQ-FC		Straight Unions PQ-SU	
Male Connectors PQ-MC		Reduced Unions PQ-RU	
Male Compact Connectors PQ-CC		Elbow Unions PQ-EU	
Bulkhead Connectors PQ-BC		Tee Unions PQ-TU	
Male Angle Connectors PQ-MA		Y Unions PQ-YU	
Y Connectors PQ-YC		Cross Unions PQ-CU	
Female Elbows PQ-FE		Manifold Unions PQ-MU	
Male Elbows PQ-ME		Bulkhead Unions PQ-BU	
Extended Elbows PQ-EE		Reduced Branches PQ-RB	
Universal Elbows PQ-UE		Elbow Reducers PQ-ER	
Stack Elbows PQ-SE		Tube Reducers PQ-TR	
Run Tees PQ-RT		Plug-In Elbows PQ-PE	
Branch Tees PQ-BT		Tee Reducers PQ-TR	
Manifold Mounts PQ-MM		Stem Reducers PQ-SR	
		Stem Couplers PQ-SC	

ACCESSORIES

MINIATURE TERMINAL BLOCKS



Part No.	# of Ports
15028-4	4
15028-6	6
15028-8	8
15028-10	10



MQC-2S

QUICK CONNECTS

Medium Air, Oil & Water
Seals Nitrile
Pressure Range 0 to 300 psig
Air Flow 85 l/min @ 50 psig;
 160 l/min @ 100 psig

Part No.	Description
MQC-2S	QC Assembly, 1/8" Barb to #10-32 Male
MQC-3A	QC Assembly, 1/8" Barb to #10-32 Female
MQC-V2	Valve Body, #10-32 Male
MQC-V3	Valve Body, #10-32 Female Thread
MQC-VP	Valve Body, 1/8-27 NPT
MQC-FS	Hose Connector, 1/8" Barb
MQC-F2S	Hose Connector, 1/16" Barb
MQC-FT	Hose Connector, #10-32 Female Thread

FITTINGS KITS

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



Part No.	Description	Material
17555-SF1	Barb Fittings Kit	ENP Brass
17555	Minimatic® Fittings Kit	Brass

BRASS MUFFLERS



Part No.	Description
15080	1/8" NPT Brass Muffler
15070	#10-32 ENP Brass Muffler



Part No.	Ext. Thread
11130-N	#10-32
11130-P	1/8" NPT
11130-Q	1/4" NPT
11130-W	3/8" NPT
11130-Z	1/2" NPT

MANIFOLDS



Part No.	Description
MAN-12	12-Port Brass
MRM-6	6-Port Rotary

HOSE CLAMPS



Part No.	Material
5000-4	Brass <i>Use with VYH1-0804 hose</i>
5000-2	Zinc-Plated Steel

PIPE REDUCERS

	Part No.	External Thd.	Internal Thd.
	1CJF	1/16" NPT	#10-32
	2CPF	1/8" NPT	#10-32
	4CQF	1/4" NPT	#10-32
	2CPK	1/8" NPT	1/16" NPT
	4CQK	1/4" NPT	1/16" NPT
	4CQN	1/4" NPT	1/8" NPT
	15036	1/8" NPT	#10-32

Will adapt standard pipe to fittings and Clippard miniature components. (-ENP) optional.

COMPRESSION FITTINGS

	Part No.	Tube (O.D.)	Material
	11923	1/8"	Brass
	15160	1/16"	Brass
	3810-1	1/8"	Brass
	3810-2	1/16"	Brass





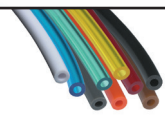


GASKETS

Designed for use with #10-32 threads

	Material	Part No.	O.D.	I.D.
	Nitrile	11761-2	0.240	0.150
	FKM	11761-8	0.240	0.150
	Nylon	11761-4	0.307	0.192
	EPDM	11761-7	0.240	0.150

HOSE & TUBING

Polyurethane tubing offers a wider range of chemical compatibility than vinyl, may be used at much higher temperatures, and does not require clamps when used with barb fittings. 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.

Type	O.D.	I.D.	Bend Radius	Working Range	Part No.	Colors	50' Roll	500' Roll
 Ether Based 95A Durometer Polyurethane	5/32"	3/32"	3/8"	0 to 105 psig @ 100°F (max. 120°F)	URT1-0503-□□	● - BKS ✨ - CLT ✨ - BLT ✨ - GNT ✨ - RDT ✨ - YLT	-050	-500
	1/4"	0.160"	1/2"		URT1-0805-□□	-050	-500	
	3/8"	1/4"	7/8"		URT1-1208-□□	-050	-500	
 Medical/Laboratory Grade Silicone	0.065"	0.030"	–	0 to 30 psig	SIH1-0201-NAS-□	Clear	-005	-500
	3/32"	1/32"	–		SIH1-0301-NAS-□		-005	-500
	1/8"	1/16"	–		SIH1-0402-NAS-□		-005	-500
	3/16"	1/16"	–		SIH1-0602-NAS-□		-005	-500
	1/4"	1/8"	–	0 to 20 psig	SIH1-0804-NAS-□		-005	-500
	5/16"	3/16"	–	SIH1-1006-NAS-□	-005		-500	
	3/8"	1/4"	–	SIH1-1208-NAS-□	-005		-500	
 Sanitary Food Grade Silicone	1/8"	1/16"	1/4"	0 to 14 psig	SFG1-0402-NAS-□	Clear	-005	-500
	1/4"	1/8"	1/4"	0 to 9 psig	SFG1-0804-NAS-□		-005	-500
	3/8"	1/4"	3/4"	SFG1-1208-NAS-□	-005		-500	
 80A Durometer Vinyl	1/8"	1/16"	3/8"	0 to 105 psig @ 70°F (max. 60 psig @ 80° to 100°F)	VYH1-0402-CLT-□	Clear	-050	-500
	1/4"	1/8"	3/4"		VYH1-0804-CLT-□		-050	-500
 85A Durometer Polyurethane	1/8"	1/16"	3/16"	0 to 105 psig @ 100°F (max. 120°F)	URH1-0402-□□	● - BKS ● - BRS ✨ - CLT ✨ - BLT ✨ - GNT ✨ - RDT ✨ - YLT	-050	-500
	1/4"	1/8"	3/8"		URH1-0804-□□		-050	-500
 85A Durometer Polyurethane Ribbon	1/8"	1/16"	3/16"	0 to 105 psig @ 100°F (max. 120°F)	URH8-0402-02T-050	All (ribbon)	-050	—
	1/4"	1/8"	3/8"		URH8-0804-02T-050		-050	—
 85A Durometer Twin Molded Polyurethane	1/4"	1/8"	3/8"	0 to 105 psig @ 100°F (max. 120°F)	URH2-0804-01S-□	Black & gray	-050	-500

To order, add color selection and roll length to the end of the number. **Example:** URT1-0503-BLT-050

Color Key Solid: ● Black (BKS) ● Brown (BRS)

Translucent: ✨ Blue (BLT) ✨ Clear (CLT) ✨ Green (GNT) ✨ Red (RDT) ✨ Yellow (YLT)