SAPPHIRE AND RUBY ORIFICE FITTINGS AND CONNECTORS

Bird Precision offers a wide variety of standard options in orifice hardware. Bird Precision orifices are swagged in place by a proprietary method for maximum strength and sealing, and most are available with micro screen filtration. Bird also retrofits customer supplied fittings and currently retrofits many common commercially available fittings. Sapphire and ruby orifices are laser drilled and wire lapped, resulting in a burr free orifice that is extremely round and sharp edged. Bird Precision's synthetic sapphire and ruby orifices feature zero porosity, high temperature tolerance and wear resistance as well as chemical resistance. Repeatable flows from less than .5 cc/min. All fittings and connectors are offered in sizes from .00029" through .081".

Please contact a knowledgeable Bird Sales Representative at (800) 454-7369 with any questions you might have or to inquire about having Bird Precision design a custom fitting to your specifications.

Brass Fittings and Connectors

Brass fittings and connectors are available for brass tubing or threaded tube connectors such as typical 1/8" NPT male to male, male to female, elbows, Y's, T's and unions. Brass is recommended where stainless steel is not warranted, but pressure or application dictates. Most are available with either straight hole insert or "vee" orifice insert. Sizes range from .00029" through .081".

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e 16	82029	Face Seal 10-32 THD 1/4" HEX, Buna or Nylon Washer
	00410	M 1 II M 1 4 /01 Dt . 4 /01 Dt
	82416	Male Hex Nipple, 1/8" Pipe to 1/8" Pipe
\cap	00104	Mala Elbary 00 dagrees 1/0" Bina Thread 1/0" Tuba Cina quial compact
	82184	Male Elbow 90 degrees, 1/8" Pipe Thread, 1/8" Tube Size, quick connect
norma.	82703	Male Run Tee for 1/4" Tube
-8-	02703	Wate Rull 1cc for 1/4 Tube
	82802	Barb in Tube Insert for 1/16" ID, flexible
	82618	Barb in Tube Insert for 1/16" ID, flexible to terminate
	82717	Adapter 1/8-27" NPT Male to 1/8-27" NPT Female
	82704	3-56 thread to 1/16" Barb Miniature
	82478	10-32 thread to 1/8" Barb Buna Washer Seal
	82666	10-32 thread to 1/16" Barb Buna Washer Seal
	82271	10-32 thread to 1/8" Barb O'Ring Seal
	82385	In-Line Brass Tube Fitting for 1/16" ID Flexible Tubing

The above fittings are available with our complete line of orifices from .00029" through .081" with or without stainless steel filters.

Plastic Fittings and Connectors (with ruby orifices for flexible plastic tubes)

Plastic fittings and connectors for most commercial plastic configurations are available: luer, in-line, threaded to barb, Y's, T's and elbows as well as special quick disconnect components. All standard tube fittings are available for most plastic tubing barb sizes.





SAPPHIRE AND RUBY ORIFICE FITTINGS AND CONNECTORS

"T": Designed to connect 1/8" (3mm) ID tubing

82001 1/8x1/8x1/8-27 Thread Nylon **82599** 1/8x1/8x1/8 Barbs, White Nylon

82737 "Y": Designed to connect 1/8" (3mm) ID tubing

Luers for Threaded Ports: Designed to connect male luer to #10-32 UNF port, etc. Heavy-duty female luer and special tapered 1/4-28" thread

Tube to Tube

 82673
 1/16" Tube, Kynar

 82715
 1/8" Tube, Nylon, 7 colors

 82473
 1/8" Tube, Polypropylene

 82472
 1/8" Tube, Kynar

 82426
 1/4" Tube, Nylon

 82896
 3/8" Tube, PVDF

Female Luer and Male Luer: Designed for use with 1/16" (1-1/2 mm) ID tubing

Mala Carrage 1/4" OD Talaina

from .00029" through .081" with or without stainless steel filters.

Threaded Couplers: 82449 Designed to connect two #10-32 UNF female ports. 1/4" hex

All of the above fittings and connectors are available with our complete line of orifices from .00029" through .081" with or without stainless steel filters.

Stainless Steel Fittings and Connectors

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Stainless steel connectors and fittings may be ordered for common 1/8" and 1/4" stainless tubings as well as for typical male and female connectors including: T's, glands, VCRs, port type and elbow connections. Stainless steel is ideal for high pressure corrosion or temperature requirements. Either straight hole or "vee" orifices are available depending on the application.

	82815	Male Connector 1/4" OD Tubing
	82627	Male Connector 1/8" OD Tubing
	82631	Male Connector Union 1/4" OD Tubing
	82323	Port Connector 1/8" OD Tubing
	82462	Port Connector 1/4" OD Tubing
S. Marin	82350	Port Connector 3/8" OD Tubing
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ALC: Y	82573	Male Elbow 1/8" OD Tube 1/8" Pipe
0	82703	Male Run Tee 1/4" OD Tube 1/8" Pipe
and The same		
	82733	Male Hex Nipple 1/8" Pipe to 1/8" Pipe
and the		
	82548	316 Stainless Steel 10-32 thread to 1/16" Barb
	82502	Face Seal Gasket Orifice Assembly for Stainless Tube Assemblies .475 diameter
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All of the above stainless steel fittings and connectors are available with our complete line of orifices