

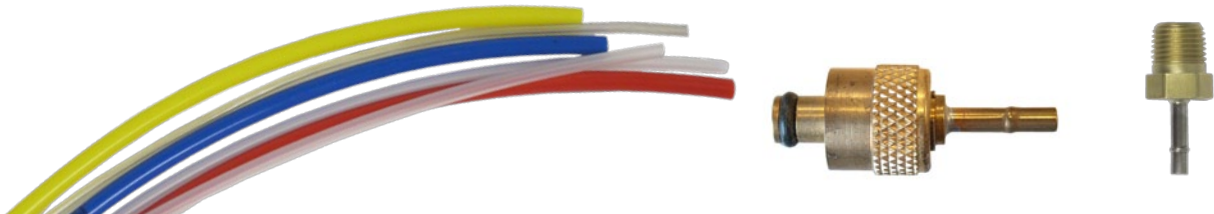
Scanivalve

PNEUMATIC CONNECTOR, TUBING, & ACCESSORY CATALOG

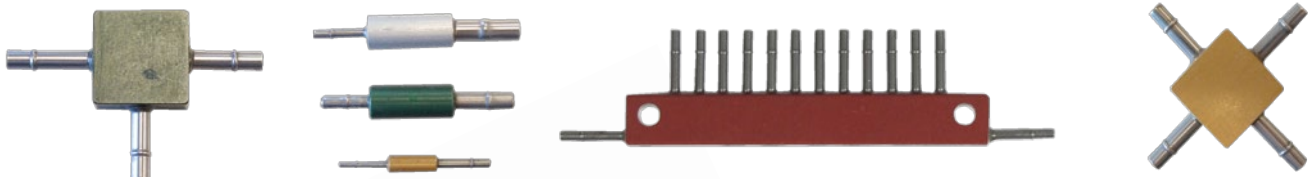
Pneumatic Quick Connectors



Plastic Tubing and Adaptors



Tube Connectors and Manifolds



Plumbing Tools



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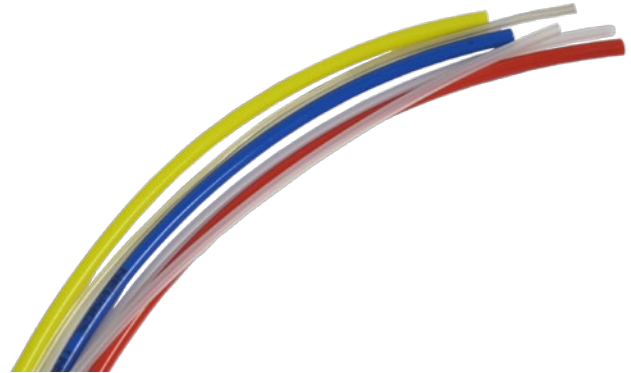
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Plastic Tubing

Scanivalve stocks clear plastic tubing for many applications including:

- Wind Tunnel Tests
- Flight Tests
- Gas Turbine and Diesel Tests
- R&D and Laboratory Use
- Industrial Test

Available stock materials are urethane, Nylon, vinyl and Teflon. Sizes are available to fit over .031 inch through .125 inch tubulations. Tubing is sold by the spool.



Nylon Tubing

This tubing is rated at 110°C* and is ideal for gas turbine testing. It fits snugly over our stainless steel tubulations and can be used without helical tubing clamps to 100 psi, or up to 1500 psi (burst pressure NYLN-063) with helical tubing clamps and sealant. As a special order, NYLN-125HW can be ordered in a variety of colors.

NYLN-063 is also available in a 19-tube, multi-tube bundle.

Teflon Tubing (Clear)

This chemically inert tubing is rated at 260°C*. It uses the same helical tubing clamps as the Nylon tubing. Size .063 Teflon tubing has a recommended working pressure of 500 psi at 21°C.

Vinyl Tubing (Clear)

This tough, lightweight tubing carries a 65°C* rating. It fits snugly over our stainless steel tubulations, and can be used with or without our helical tubing clamps. It can be used for short duration tests up to 30 psi without helical clamps. Size .063 vinyl tubing has a recommended working pressure of 90 psi at 21°C.

Urethane Tubing (Clear)

Urethane tubing has a temperature rating of 95°C*. It is ideal for low pressure tests in wind tunnel models. The tubing is extremely flexible, resilient, and resistant to kinking. It fits snugly over our stainless steel tubulations and is resistant to weather, tearing, abrasion and impact. Size .063 urethane has a recommended working pressure of 100 psi at 21°C.

Tubing Material Sizes Typically Stocked

For use on:	Vinyl	Nylon 6/6 (Clear)	Urethane	Teflon (PTFE)
.031 Inch (0.79mm) O.D. SS tubulation			URTH-031 (I.D.)	
.040 Inch (1.02mm) O.D. SS tubulation	VINL-040 (I.D.)	NYLN-040† (I.D.)	URTH-040 (I.D.)	TFLN-040 (I.D.)
.063 Inch (1.59mm) O.D. SS tubulation	VINL-063 (I.D.)	NYLN-063 (I.D.)	URTH-063 (I.D.)	TFLN-063 (I.D.)
.125 Inch (3.18 mm) O.D. SS tubulation	VINL-125***† (I.D.)	NYLN-125HW (I.D.)		TFLN-125** (I.D.)

* Temperature ratings are referenced to atmospheric pressure of 14.7 psia nominal.

** Do not use this tubing in vacuum applications

† Indicates special order

O.D.= Outside Diameter; I.D. = Inside Diameter

Plastic Tubing Specifications

Part Number	I.D. Inches [mm]*	O.D. Inches [mm]	Recommended Working Pressure at 21°C PSI [kPa]	Burst Pressure at 21°C PSI [kPa]	Burst Pressure at 40°C PSI [kPa]	Max Operating Temperature °C [°F]	Min Operating Temperature °C [°F]	Burst Pressure at Max Operating Temperature PSI [kPa]	Minimum Bending Radius Inches [mm]	Spool Length Feet [Meters]	
NYLNL-063	.057 [1.45]	.089 [2.26]	1000 [6895]	1500 [10340]	1000 [6895]	110 [225]	-65 [-85]	800 [5515]	1.25 [31.75]	500 [152.4] 1000 [304.8]	
NYLNL-063 Multitube**	N/A	.49 [12.45]	See NYLNL-063								450 ± 25 [137.2± 7.6]
NYLNL-125HW	.117 [2.97]	.187 [4.75]	600 [4135]	1000 [6895]	750 [5170]	100 [212]	-65 [-85]	500 [3448]	1.75 [44.45]	250 [76.2]	
TFLNL-040	.036 [0.91]	.068 [1.73]	500 [3448]	700 [4825]	575 [3965]	260 [500]	-70 [-94]	70 [480]	0.50 [12.7]	500 [152.4]	
TFLNL-063	.053 [1.35]	.086 [2.18]	500 [3448]	700 [4825]	575 [3965]	260 [500]	-70 [-94]	70 [480]	0.75 [19.05]	500 [152.4]	
TFLNL-125	.106 [2.69]	.138 [3.51]	200 [1380]	350 [2415]	240 [1655]	175 [350]	-70 [-94]	50 [345]	1.25 [31.75]	300 [91.4]	
URTH-031	.027 [.69]	.051 [1.30]	125 [860]	375 [2585]	160 [1100]	95 [200]	-65 [-85]	70 [480]	0.188 [4.78]	500 [152.4]	
URTH-040	.034 [.86]	.066 [1.68]	125 [860]	350 [2415]	150 [1035]	95 [200]	-65 [-85]	70 [480]	0.25 [6.35]	500 [152.4]	
URTH-063	.054 [1.37]	.086 [2.18]	100 [690]	250 [1725]	150 [1035]	95 [200]	-65 [-85]	50 [345]	0.25 [6.35]	500 [152.4]	
VINL-040	.034 [.86]	.066 [1.68]	100 [690]	380 [2760]	160 [1380]	65 [150]	-40 [-40]	45 [240]	0.32 [8.12]	500 [152.4]	
VINL-063	.054 [1.37]	.086 [2.18]	90 [620]	240 [1725]	125 [1100]	65 [150]	-40 [-40]	45 [240]	0.50 [12.7]	500 [152.4]	
VINL-125†	.106 [2.69]	.138 [3.51]	40 [275]	160 [1205]	40 [345]	65 [150]	-40 [-40]	35 [240]	0.63 [16.0]	500 [152.4]	

* All I.D. tolerances are ±0.002" with the exception of TFLNL tubing. All TFLNL is ±0.003".

** Specifications listed in this row apply to the full bundle. See NYLNL-063 for individual tubes.

† Special Order. Please consult factory.

Tubing Clamps and Sealant

Helical Tubing Clamps

These tubing clamps are used to clamp plastic tubing onto the stainless steel tubulations which extend from our Scanivalve modules and line of connectors, reducers, and manifolds. The brass clamps are designed to fit over our vinyl and urethane tubing on the tubulation. The stainless steel clamps are designed to fit over our Nylon and Teflon tubing. Clamps, tools, and tubing sizes are based on Scanivalve nominal stainless steel tubulation outside diameter. Actual dimensions of clamps, tools, and tubing may vary.



To Order, Specify		Brass		Stainless Steel
Bulged Stainless Steel Tubulation Size:	Scanivalve Tubing:	For use on Vinyl or Urethane tubing, #:	Scanivalve Tubing:	For use on Nylon or Teflon tubing, #:
.042 Inch [1.07mm] O.D.	VINL-040	CLMP-040	NYLN-040	NYCLMP-040
.063 Inch [1.59mm] O.D.	VINL-063	CLMP-063	TFLN-063 or NYLN-063	NYCLMP-063
.125 Inch [3.18mm] O.D.	VINL-125	CLMP-125	TFLN-125	NYCLMP-125
			NYLN-125HW	NYCLMP-125HW

Pipe Sealant

The use of sealant with the helical tubing clamps is recommended for pressures above 250 psi. It is best used on Nylon and Teflon tubing. Each bottle is approximately 8 ml.

Application: Prior to tubing installation, lightly brush a small amount of sealant over the bulge of the stainless steel tubulation. Then drive the tubing and clamp onto the tubulation, using a small amount of twist to help spread the sealant. For high pressure applications, it is recommended that the SLNT2 is allowed to dry for 12-24 hours before full pressure is applied.

To order, specify as Scanivalve #SLNT2.



Tubulations and Specialized Tubing Tools

Bulged Stainless Steel Tubulations

Scanivalve manufactures a complete line of bulged stainless steel tubulations. The tubing is bulged on one end to ensure leak tight connections. Scanivalve's plastic tubing and the brass or stainless steel helical tubing clamps fit over this bulge for a firm grip. It is recommended that the customer should epoxy the non-bulged end into their equipment. The tubulations are manufactured in lengths between 0.55 inches and 8.0 inches.



To Order, Specify: Scanivalve Part Number + Tubulation Length

Scanivalve Part Number:	Standard Tubulation Lengths Inches	Tubulation Size* Inches [mm]
TUBN-040	.55, .75, 1.0, 2.0, 3.0, 4.0	.042 Inch [1.07mm] O.D.
TUBN-063	.56, .75, 1.0, 2.0, 3.0, 4.0	.063 Inch [1.59mm] O.D.
TUBN-125	.75, 1.0, 2.0, 3.0, 4.0	.125 Inch [3.18mm] O.D.

* Tubulation sizes are approximate. Please contact factory for exact measurements and tolerances.

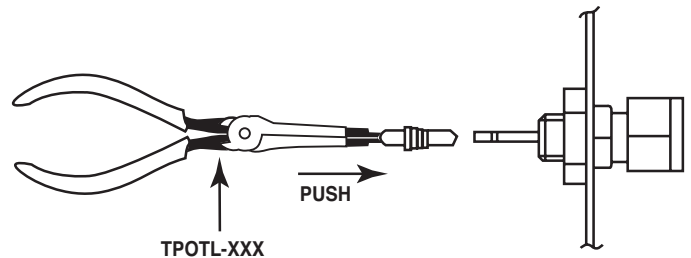
Plastic Tubing Push-on Tool

This tool is designed for use with vinyl, Nylon, Teflon and urethane tubing. The tool is used by grasping the tubing adjacent to the clamp (after the clamp has been screwed onto the tubing) and pushing it onto our standard stainless steel tubulations. It can also be used to push on tubing without clamps. Clamps, tools, and tubing sizes are based on Scanivalve nominal stainless steel tubulation outside diameter. Actual dimensions of clamps, tools, and tubing may vary.



To Order, Specify:	Approximate I.D. of tubing clamp Inches [mm]
TPOTL-031	.046 [1.17]
TPOTL-040	.059 [1.50]
TPOTL-063	.081 [2.06]
TPOTL-125	.136 [3.45]
TPOTL-125HW	.177 [4.50]

Model Tubulation Size



Specialized Tubing Tools

NYCLMP Screw-Back Tool

The Nylon screw-back tool is designed to manually install the helical clamps over the bulge of the tubulation. The screw-back tool is slipped onto the tubing and used to push the NYCLMP towards the tubulation bulge until the bulge is engaged. By rotating the screw-back tool a few revolutions, it will screw the NYCLMP over the bulge. Continue turning the handle on the screw-back tool until the clamp is located 80% over the bulge (on the side of the bulge closest to the termination of the tubing).

The versatile long-handled version, NCSBTL3, is especially suited for installing the NYCLMPs in hard to reach areas. The short-handled version, NCSBTL2 is used on panels where space is available.

Clamps, tools, and tubing sizes are based on Scanivalve nominal stainless steel tubulation outside diameter. Actual dimensions of clamps, tools, and tubing may vary.

Note: When Heavy Walled (HW) tubing is used, specify the HW Screw-back tool listed in the table.

To Order, Specify:	
NCSBTL2-063	
NCSBTL2-125	
NCSBTL2-125HW	
NCSBTL3-040	
NCSBTL3-063	
NCSBTL3-125	
NCSBTL3-125HW	

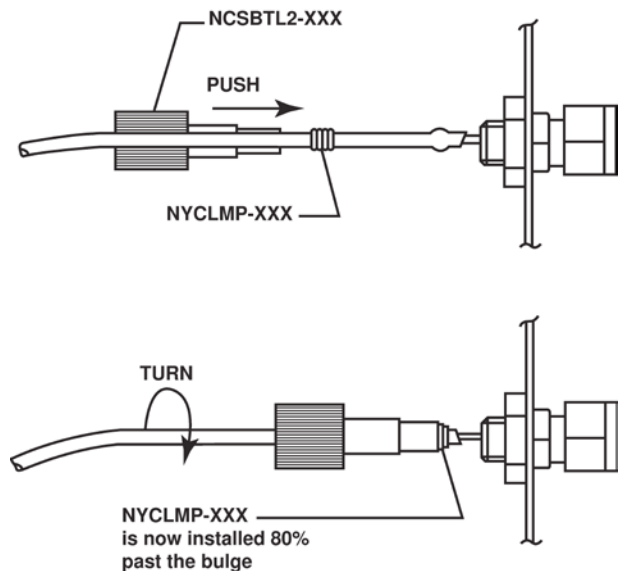
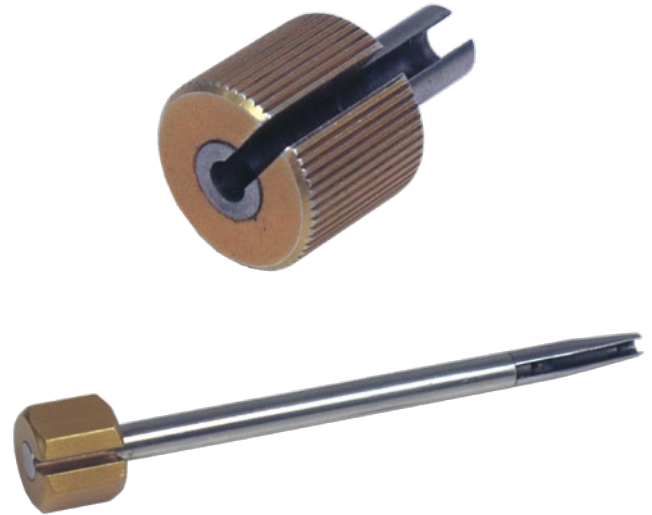
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Model
Tubulation Size

Plastic Tubing Cut-Off Tool

This tool is designed for use with vinyl, Nylon, Teflon and urethane tubing. The tool allows you to make a clean cut without distorting the plastic tubing. It works on any plastic tubing size from -031 to -125.

To Order, Specify: PTCTL



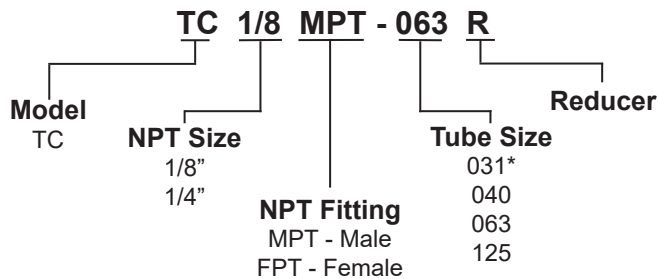
Tube/Pipe Connectors

Pipe Connectors

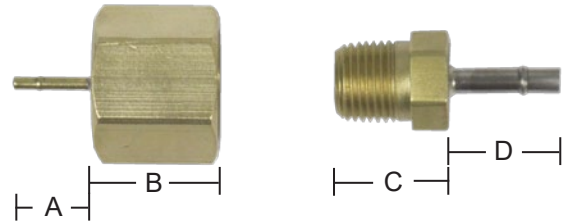
These connectors are useful to connect small diameter plastic tubing with larger 1/8 inch and 1/4 inch NPT threaded pipe. Sizes are governed by the NPT standard.

Tubulation sizes available: .031 (non-bulged), .040, .063, or .125 inch OD.

To Order, Specify:



*.031 inch tubulations do not have a bulge
 † Tolerance ±0.03
 ‡ Tolerance ±0.05



NPT Size	Tubulation	A	B†	C‡	D	Hex
1/8"	.031"	.360"	.56"	.52"	.360"	FPT - 9/16" MPT - 7/16"
	.042"	.360"			.410"	
	.063"	.400"			.400"	
	.125"	.500"			.540"	
1/4"	.031"	.340"	.75"	.745"	.340"	FPT - 3/4" MPT - 9/16"
	.042"	.400"			.400"	
	.063"	.400"			.400"	
	.125"	.500"			.500"	

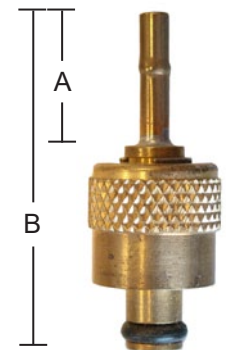
Tube Adaptors for X-Lok Compression Fittings (1500psi)

Scanivalve has designed easy-to-use tube adaptors that fit X-Lok fittings. The main function of these tube adaptors is to reduce 1/8 or 1/4 inch compression fittings to our bulged tubulations.

These fittings can be hand tightened to form a leak tight O-ring seal. No tools are required. The tube adaptor material is brass or stainless steel with brass or stainless steel tubulations (dependent on configuration).

To Order, Specify: Scanivalve Part Number + Dash Number

Scanivalve Part #	Dash Number	Tubulation Size	Compression Fitting Size	Stickout (A)	Length (B)
5365	- 1	Cap	1/4" [6mm]	N/A	N/A
	- 12	.042"		.400"	.850" + A
	- 2	.063"		.275"	
	- 4	.083"		.450"	
	- 3	.125"		.450"	
5375	- 2	Cap	1/8" [3mm]	N/A	N/A
	- 4	.042"		.400"	.990"
	- 1	.063"		.360"	1.0"
	- 5	.125"		.550"	1.13"

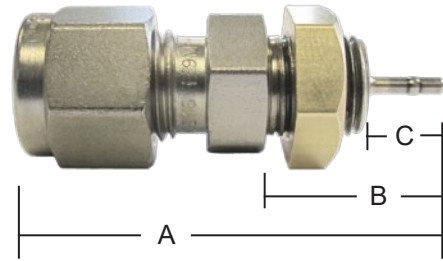


X-Lok Adaptors

X-Lok to Tubulation

These fittings provide a compression fitting to one end and a tubulation on the other. This fitting can be threaded or mounted to a wall to provide a pass through option when converting compression fittings to tubulations. The material can be stainless steel or brass. The nut included for the 1/8 pipe thread is brass.

To Order, Specify: Scanivalve Part Number + Dash number



Scanivalve Part #	Dash Number	Tubulation Size Inches [mm]	Material	Compression Fitting	NPT Size	A	B	C
						Inches [mm]		
57022	- 1	.063 [1.59]	Brass	1/4" (6mm)	1/8"	1.660 [42.16]	.745 [18.92]	.370 [9.40]
	- 2	.125 [3.18]				1.880 [47.75]	.965 [24.51]	.590 [14.99]
	- 3	.063 [1.59]	Stainless Steel			1.660 [42.16]	.745 [18.92]	.370 [9.40]
	- 4	.125 [3.18]				1.880 [47.75]	.965 [24.51]	.590 [14.99]
57032	- 1	.063 [1.59]	Brass	1/8" (3mm)	1/8"	1.570 [39.88]	.745 [18.92]	.370 [9.40]
	- 2	.125 [3.18]				1.770 [44.96]	.945 [24.00]	.570 [14.48]
	- 4	.063 [1.59]	Stainless Steel			1.600 [40.64]	.775 [19.69]	.400 [10.16]
	- 5	.125 [3.18]				1.770 [44.96]	.945 [24.00]	.570 [14.48]

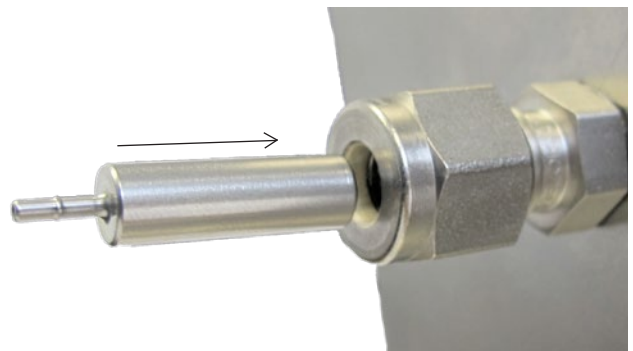
Tube Inserts for X-Lok Compression Fittings

Scanivalve has designed easy-to-use tube adaptors that fit into X-Lok compression fittings. The main function of these tube adaptors is to utilize the compression fitting and adapt to Scanivalve tubulation sizes. These adaptors are all stainless steel.



To Order, Specify: Scanivalve Part Number + Dash Number

Scanivalve Part #	Dash Number	Tubulation Size Inches [mm]	Material	Body O.D - 'D' Inches [mm]
57038	- 1	.063 [1.59]	Stainless Steel	.250 [6.35]
	- 2	.125 [3.18]		.250 [6.35]
	- 3	.063 [1.59]		.125 [3.18]
	- 7	.040 [1.02]		.125 [3.18]



5/16x24 SAE Adaptors

5/16x24 to SV Adaptors

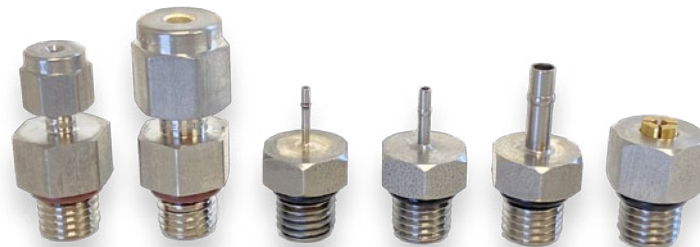
These connectors were designed to adapt a 5/16"x24 male thread matching the SAE J1926-1* standard to a common Scanivalve fitting type, such as a bulged tubulation, compression fitting, or 063 Quick Coupler. These fittings are used on the DSA5000 series pneumatic inputs, but can be used in other similar applications.

Fittings can be ordered individually (specify quantity), pack of 22 fittings, or pack of 36 fittings.

Tubulation sizes available: 0.042", 0.063", or 0.125" OD

Compression sizes available: 1/16" or 1/8" OD

Quick Coupler sizes available: 0.063" OD

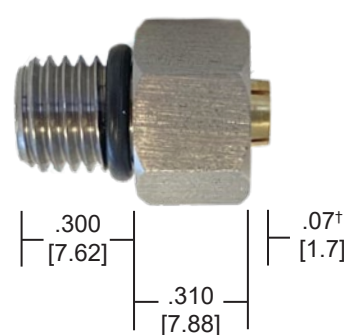
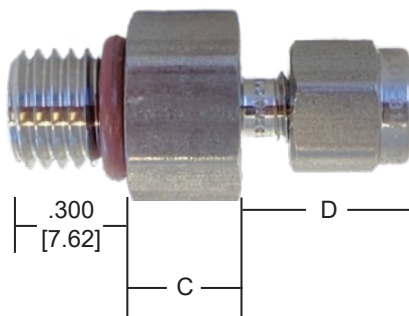
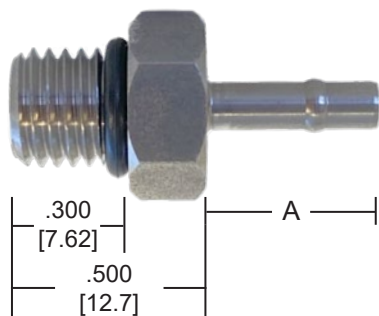


To Order, Specify: Scanivalve Part Number

FITTING	OPTION	SIZE	MATERIAL	PART NUMBER (Individual)	PART NUMBER (Pack of 22)	PART NUMBER (Pack of 36)
5/16x24 Male Thread w/O-Ring (Buna-N)	Bulged Tubulation	0.042" OD	Stainless Steel	20004-3	20009-03	20009-06
		0.063" OD	Stainless Steel	20004-2	20009-02	20009-05
		0.125" OD	Stainless Steel	20004-1	20009-01	20009-04
	Compression Fitting	1/16"	Stainless Steel	FTG-528	20008-03	20008-06
		1/8"	Stainless Steel	FTG-526	20008-01	20008-04
			Brass	FTG-527	20008-02	20008-05
	Other	QC-063	Stainless Steel, Brass, Buna-N	5390-1	20010-01	20010-02

* SAE J1926-1 is equivalent to ISO 11926-1 for 5/16"x24 o-ring sealing straight thread fittings.

All measurements = Inches [mm]



Part No	Dash No	A	Hex
20004	-1	.450 [11.43]	7/16"
	-2	.325 [8.25]	
	-3		

Part No	Dash No	C	D	Hex
FTG	-526	.275 [7.0]	.613 [15.6]	7/16"
	-527			
	-528	.286 [7.26]	.43 [11.0]	

Part No	Dash No	Hex
5390	-1	7/16"

† Approximate

Pressure Taps and Patch

Pressure Tap

These pressure taps were designed to be a convenient solution for mounting tubulations to a model or test article. Using a hole drilled in the test article, the pressure tap can be fixed to the test article using adhesive. The through hole design of the tap (Dimension A) will allow for a flush finish on the exterior of the test article. Straight and 90 degree tubulation variants are available.

Tubulation Sizes Available: .040" and .063"

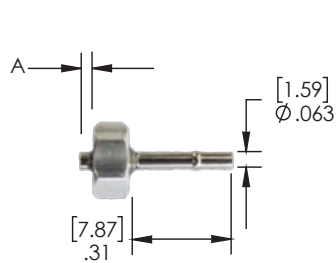
To Order, Specify: Scanivalve Part Number + Dash Number



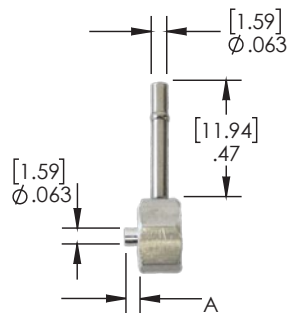
Scanivalve Part Number	Tubulation Size	Orientation
5855	.040	Straight
5856	.063	Straight
5865	.040	90 Degree
5866	.063	90 Degree

Dash Number						
	- 1	- 2	- 3	- 4	- 5	- 6
'A'	.025 [.635]	.032 [.813]	.050 [1.27]	.063 [1.60]	.093 [2.36]	.125 [3.18]

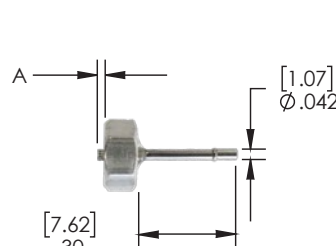
Please consider test article material thickness when choosing the 'A' dimension.



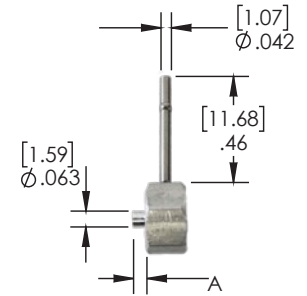
PN: 5856



PN: 5866



PN: 5855



PN: 5865

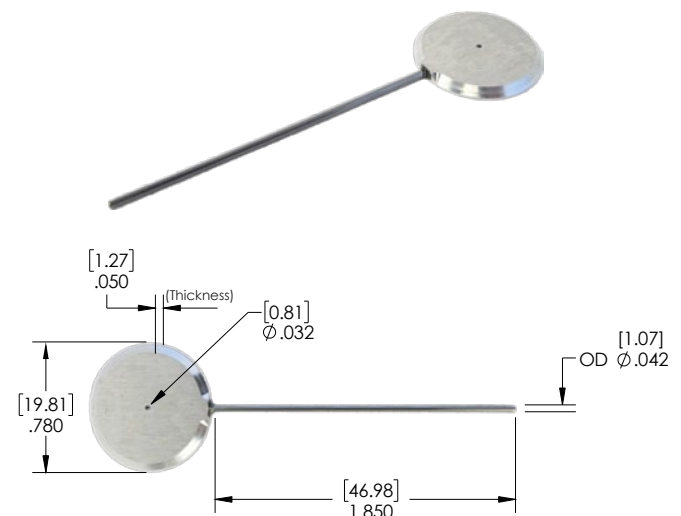
All measurements = Inches [mm]

Pressure Patch

The Pressure Patch is an alternate solution to the pressure tap in applications where drilling holes in the test article is unacceptable or inconvenient. A stainless steel tube is extruded from the chamber of an aluminum disk. The aluminum body can be fixed to the test article using an appropriate adhesive based on the application. The patch was designed and tested to have minimal aerodynamic influences when fixed to the flat surface of a test article.

Tubulation Sizes Available: .040" (non-bulged)

To Order, Specify: Pressure Patch (PN: 5857)

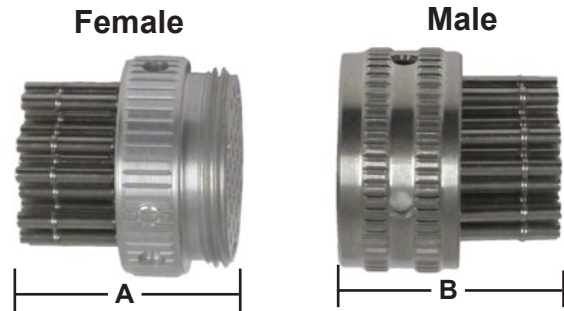


All measurements = Inches [mm]

Pneumatic Connectors

Quick Disconnect (50-100psi)

This family of connectors are ideal for making quick disconnects at test break points where space is important. These connectors have some of the highest channel density per connector that Scanivalve offers. A flat gasket is shipped with the male connector for providing an air tight seal. Blanking caps are available for some connector models as shown in the chart below.



Dimensions: Inches [mm]				
Number of Tubulations	Connector Diameter	A	B	Tubulation Dimensions
7	.345 [8.76]	.680 [17.3]	.615 [15.6]	.040 [1.02] O.D.
14	.390 [9.91]	.695 [17.65]	.680 [17.3]	.040 [1.02] O.D.
19	.460 [11.7]	.660 [16.8]	.690 [17.6]	.031 [.79] O.D.†
19	.460 [11.7]	.760 [19.3]	.790 [20.1]	.040 [1.02] O.D.
31	.560 [14.2]	.540 [13.7]	.650 [16.5]	.031 [.79] O.D.†
31	.560 [14.2]	.540 [13.7]	.580 [14.7]	.040 [1.02] O.D.
31	.900 [22.9]	.720 [18.3]	.765 [19.4]	.040 [1.02] O.D.
31	.900 [22.9]	.690 [17.6]	.765 [19.4]	.063 [1.59] O.D.
36	.625 [15.88]	.615 [15.6]	.655 [16.6]	.031 [.79] O.D.†
36	.625 [15.88]	.960 [24.4]	1.0 [25.4]	.040 [1.02] O.D.
55	.700 [17.8]	.540 [13.7]	.565 [14.4]	.040 [1.02] O.D.
55	1.125 [28.6]	.690 [17.6]	.784 [19.9]	.063 [1.59] O.D.

A and B dimensions are the distance to the longest tube.

† All .031 tubulations are non-bulged

To order, specify: Connector # + Tube Size

Number of Tubulations	Male Connector #	Female Connector #	Tube Size	Spare Gasket #	Male Cap #	Female Cap #
7	7M345‡	7F345‡	040	50968-1	N/A	N/A
14	14M390‡	14F390‡	040	50958-1	N/A	N/A
19	19M460	19F460	031	50059-2	50013-3	50024-3
19	19M460^^	19F460^^	040	50059-2	50013-3	50024-3
31	31M560	31F560*	031	50159-2	50013-2	50024-2
31	31M560^	31F560^^	040	50159-2	50013-2	50024-2
31	31M900	31F900*	040	50139-2	50130-9	50131-2
31	31M900	31F900*	063	50139-2	50130-9	50131-2
36	36M625	36F625*	031	50778-1	50770-3	50776-3
36	36M625^^	36F625*^^	040	50778-1	50770-3	50776-3
55	55M700	55F700	040	50007-3	50013-1	50024-1
55	55M1.125	55F1.125	063	50129-1	N/A	50110-1

^ Available in pyramid configuration. Specify at time of order.

^^ Only available in pyramid configuration.

‡ Max Pressure 50psi

* Available in Female Bulkhead

Note: Male Cap for Female Connector
 Female Cap for Male Connector
 Prices may vary based on configuration



Standard Configuration



Pyramid Configuration

Scanivalve

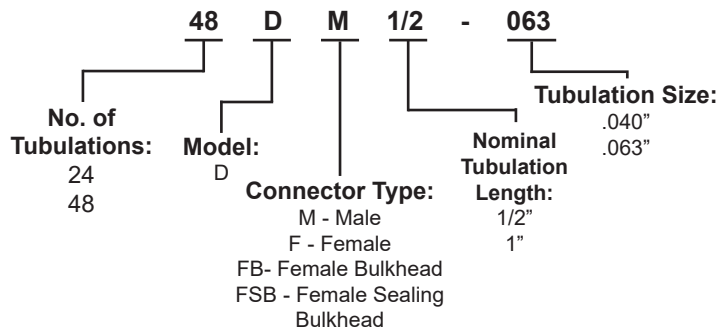
Pneumatic Connectors

Model D (300psi)

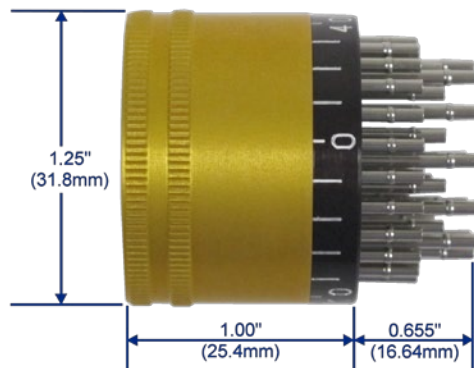
The "D" Connectors make ideal quick disconnects at model test break points when both male and female connectors are used together. Both connectors are available with 24 or 48 stainless steel tubulations. Standard "D" connectors use a gasket and are limited to 100psi. For applications up to 300 psi, a gascage can be used and must be specified at the time of order. Male and female halves can be mated together to act as a reducer. Please consult the factory for this configuration.

Spare Gasket Part Number: 6088
Spare Gascage Part Number: 6058

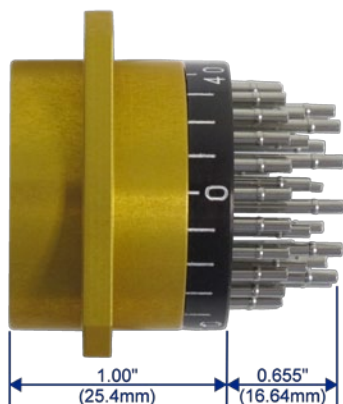
To Order, Specify:



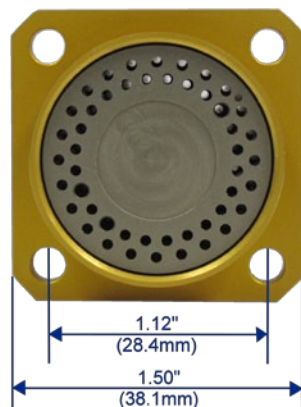
48DM-1/2
(Male)



48DF-1/2
(Female)



48DFB-1/2
(Female Bulkhead)



0.16" (4.06mm)
Diameter Holes
4 each

Pneumatic Connectors

24C, 48C, and 64C

The line of CM (male) connectors, when used with a CF (female connector), or a CFB (female bulkhead connector), become ideal quick disconnects at pressure break points. The stainless steel tubulations are designed to fit either Scanivalve 040, 063, or 125 tubing. A 2 inch retainer is available as an additional option.

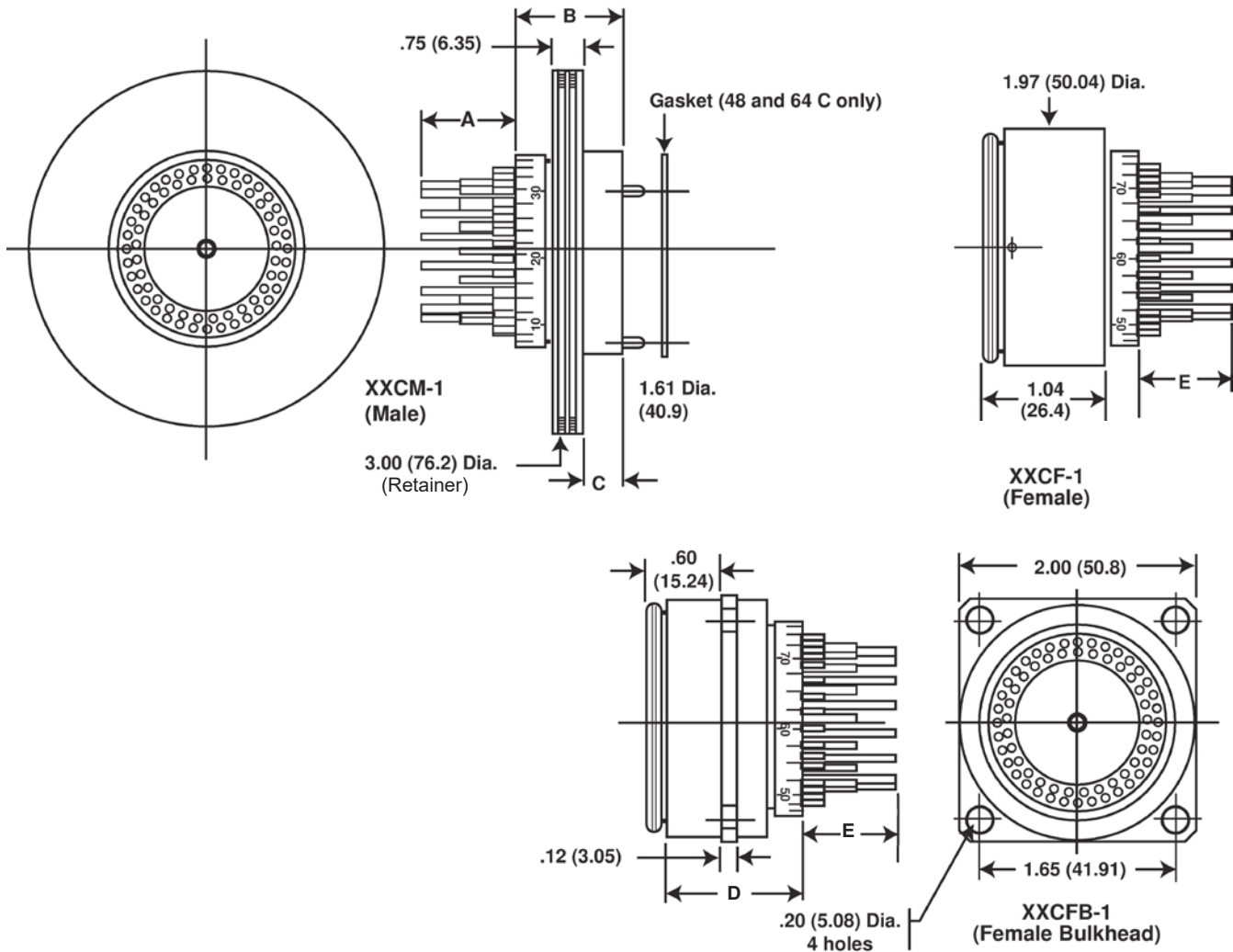
Blanking caps, spare O-rings, gaskets, and gascages can be found in the table on the following page.



64CFB-1



64CF-1



Pneumatic Connectors

24C Connector Dimensions (500psi)

ScanCo#	Description	No. of Tubes	Tubulation Size	A	B	C	D	E	Cap
24CM-1	Male Connector	24	.063 [1.59]	.61 [15.5]	.90 [22.9]	.36 [9.14]			65020-14
			.125 [3.18]	.86 [21.8]					
24CF-1	Female Connector	24	.063 [1.59]					.41 [10.4]	65010-9
			.125 [3.18]					.86 [21.8]	
24CFB-1	Female Bulkhead Connector	24	.063 [1.59]				1.30 [33.0]	.41 [10.4]	65010-9
			.125 [3.18]					.86 [21.8]	
0995-070X-150B - Spare O-Rings									

48C Connector Dimensions (500psi)

ScanCo#	Description	No. of Tubes	Tubulation Size	A	B	C	D	E	Cap
48CM-1	Male Connector	48	.040 [1.02]	.38 [9.7]	.82 [20.8]	.34 [8.64]			NA
			.063" [1.59]	.82 [20.8]					
48CF-1	Female Connector	48	.040 [1.02]					.42 [10.7]	6386-1
			.063" [1.59]					.83 [21.1]	
48CFB-1	Female Bulkhead Connector	48	.040 [1.02]				1.13 [28.7]	.42 [10.7]	6386-1
			.063" [1.59]					.83 [21.1]	
6025	Spare Gasket								
5180	Optional Gascage								

64C Connector Dimensions (100psi)*

ScanCo#	Description	No. of Tubes	Tubulation Size	A	B	C	D	E	Cap
64CM-1	Male Connector	64	.063 [1.59]	.77 [19.6]	.87 [22.1]	.34 [8.64]			NA
64CF-1	Female Connector	64	.063 [1.59]					.78 [19.8]	NA
64CFB-1	Female Bulkhead Connector	64	.063 [1.59]					1.17 [29.2]	.78 [19.8]
6305	Spare Gasket								
6015	Optional Gascage								

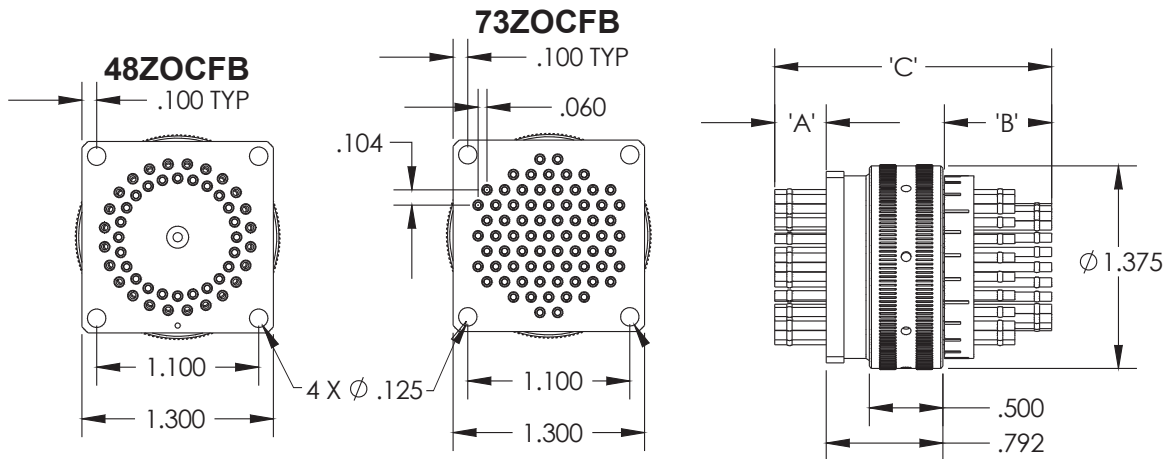
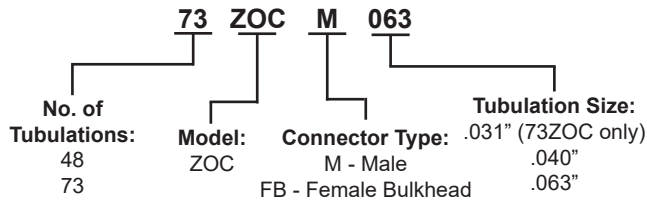
*Can be used up to 500psi with gascage. Please consult factory.
All measurements = Inches [mm]

Pneumatic Connectors

ZOC (500psi)

This high density 48 or 73 channel connector is a very popular bulkhead quick disconnect. It contains either .063 inch O.D. tubulations or .040 inch O.D. tubulations. This pneumatic connector is also used on our ZOCTCU Thermal Control Units. It is capable for use up to 500 psi. Male and female halves can be mated together to act as a reducer. Please consult the factory for this configuration.

To Order, Specify:



ScanCo#	Description	No. of Tubes	Tubulation Size	A	B	C (M & F/FB)	Spare Gascage	Mating Cap
48ZOC-M	Male Connector	48	.040 [1.02]		.990 [25.14]	2.04 [51.82]	5180-1	6541-4
			.063 [1.59]		1.3 [33.02]	2.44 [61.98]		
48ZOC-FB	Female Bulkhead Connector	48	.040 [1.02]	.260 [6.60]			5180-1	6530-3
			.063 [1.59]	.350 [8.89]				
73ZOC-M	Male Connector	73	.031 [.79]*		.300 [7.62]	1.350 [34.29]	6557-1	6561-9
			.040 [1.02]		1.050 [26.67]	2.070 [52.58]		
			.063 [1.59]		1.380 [35.05]	2.500 [63.5]		
73ZOC-FB	Female Bulkhead Connector	73	.031 [.79]"	.260 [6.60]			6557-1	6570-4
			.040 [1.02]	.230 [5.84]				
			.063 [1.59]	.330 [8.38]				

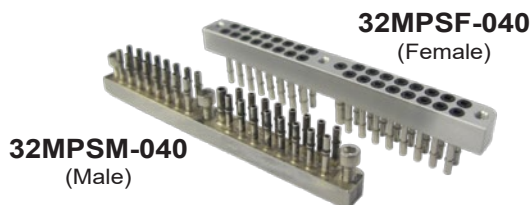
* .031 tubulations are non-bulged and non-staggered
All measurements = Inches [mm]

Pneumatic Connectors

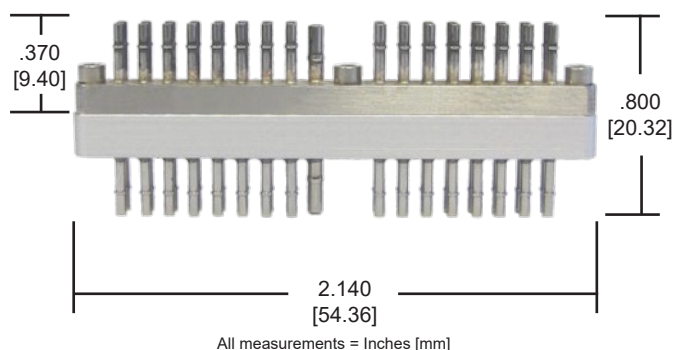
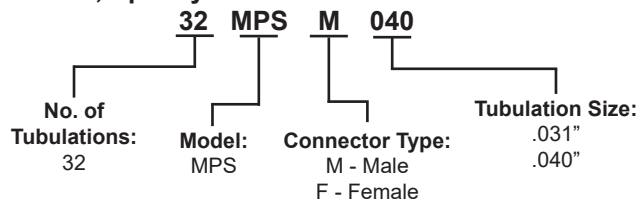
32MPS (100psi)

The “32MPS” Connectors make ideal quick disconnects at model test break points when both male and female connectors are used together. These connectors were based around the MPS4264 input header and contain the same ports. The connector consists of 32 ports of 0.031 (non bulged) or 0.040 tubulations, and one purge port (always 0.063). The female connector has threaded holes and houses the O-Rings that seal the ports. Male and female halves with different tubulation sizes can be mated together to act as a reducer. Please consult the factory for this configuration.

Spare O-Rings for 32MPS Connector Part Number: 1443
Blanking cap for Male and Female connectors are available.



To Order, Specify:

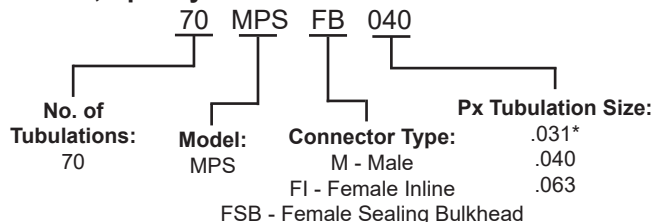


70MPS (500psi)

The “70MPS” Connectors make ideal quick disconnects at model test break points when both male and female connectors are used together. These pneumatic connectors are used on the MPSTCU and are rated for operating temperatures from -60°C to 125°C. The connector consists of 70 tubulation ports - 64 ports for “Px” connections in 0.031 (non-bulged, non-pyramid), 0.040, or 0.063 tubulations. The remaining 6 tubulations are always 0.063 tubulations - which were designed for the control inputs on the MPS. A gascage will be supplied with each male connector. Male and female halves with different tubulation sizes can be mated together to act as a reducer. Please consult the factory for this configuration.

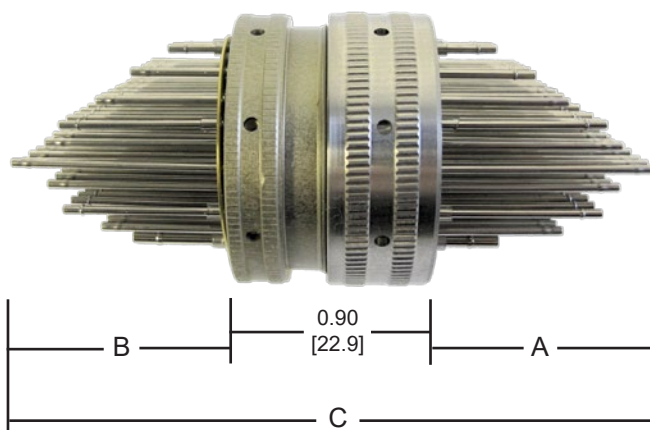
Spare Gascage Part Number: 6557
Blanking cap for Male and Female connectors are available.

To Order, Specify:



70MPSFI-040

70MPSM-040



	A	B	C	Diameter
70MPS (0.063)	1.380 [35.1]	1.350 [34.3]	3.62 [91.9]	1.375 [34.9]
70MPS (0.040)	1.050 [26.7]	1.060 [26.9]	3.00 [76.2]	
70MPS (0.031*) (non-pyramid)	0.510 [13.0]	0.390 [9.9]	1.830 [46.5]	

All measurements = Inches [mm]
* All 031 tubulations are non-bulged

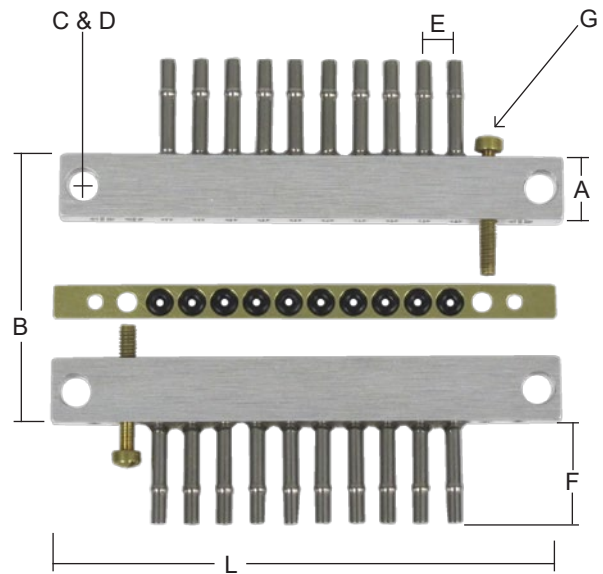
Rectangular Connectors

RC2 (300psi)

The materials of construction for these connectors are stainless steel tubulations cemented into anodized aluminum blocks. These connectors utilize a gascage to retain the o-rings and provide a leak-tight seal when connected. When configured with .031, .040, or .063 tubulations, different halves can be mated together to act as a reducer (this does not apply to the .125 tubulations). Please consult factory for this configuration.

Available Colors: CLR (clear), GLD (gold), BLK (black), RED, GRN (green) and BLU (blue). If color is not specified at the time of order, Scanivalve will supply a color based on availability.

Tubulation Sizes Available: .031 (non-bulged), .040, .063 and .125 inches O.D.

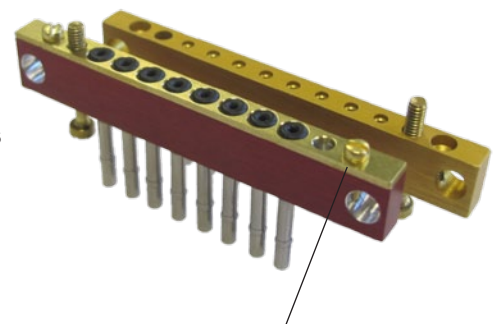
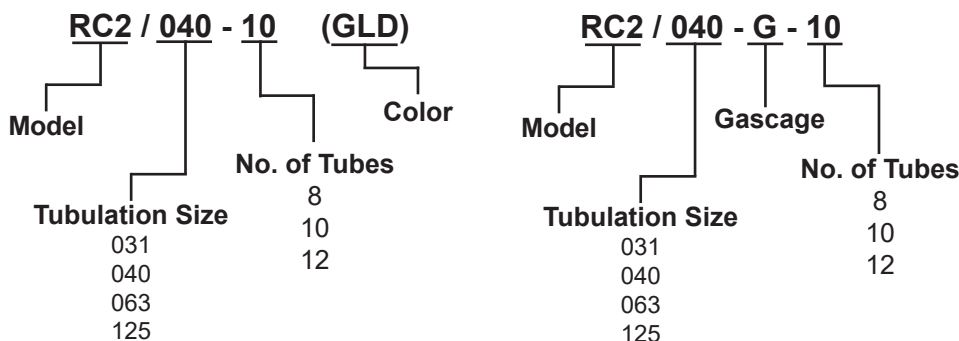


Number of Tubes	Connector Length "L" in Inches [mm]	
	For Tube Diameters:	
	.031, .040, .063	.125
8	1.700 [43.2]	2.875 [73.0]
10	1.950 [49.5]	3.375 [85.7]
12	2.200 [55.9]	3.875 [98.4]

Dimensions in Inches [mm]								
Tube Diameter	Thickness	A	B (Assembled)	C (Hole Diameter)	D	E	F	G (Part No.)
.031	.125 [3.18]	.250 [6.35]	.532 [13.51]	.125 [3.18]	No. 4 Mounting Screw	.125 [3.18]	.325 [8.26]	20300-02
.040							.375 [9.53]	
.063							.385 [9.78]	
.125	.250 [6.35]	.375 [9.53]	.782 [19.86]	.140 [3.56]	No. 6 Mounting Screw	.250 [6.35]	.47 [11.94]	20300-06

Each half of the connector can have different tubulation size, but body size will remain unchanged.

To Order, specify: Two (2) each RC2 connectors plus a gascage are required to make one connector assembly.

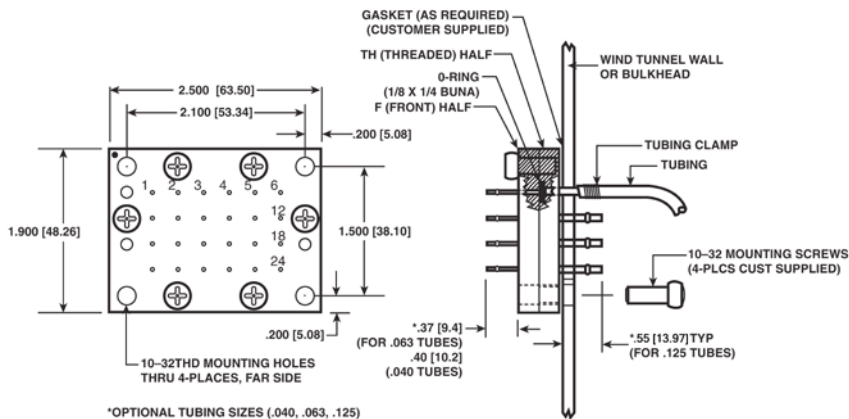


Screws supplied with gascage to fasten gascage to one half of the connector.

Rectangular Connectors

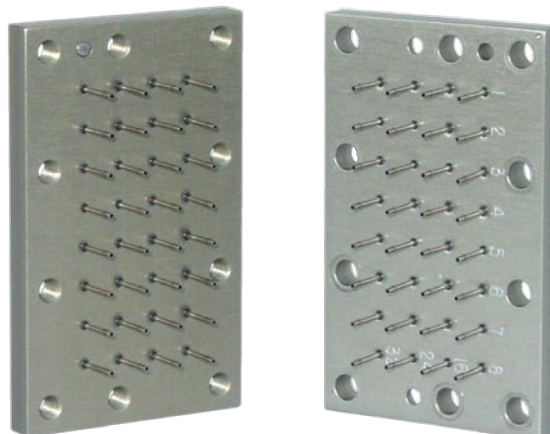
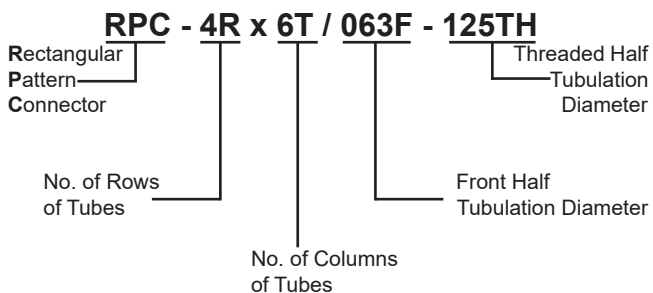
RPC (100-500psi*)

This Rectangular Pattern Connector (RPC) is ideal for making a quick disconnect at test break points. It is panel mounted and contains stainless steel tubulations. The sectioned side view of the drawing shows the front half of the connector which is not threaded. All of the holes are threaded in the threaded half (TH). Each side of the connector can have different tubulation sizes. O-rings are incorporated on the threaded half (TH) connector.



Dimension Inches (mm) - Standard Connector Size			
No. of Rows	No. of Columns	No. of Px	Dimensions: Height x Length Inches (mm)
2	4	8	1.3 x 1.9 (33.0 x 48.3)
2	5	10	1.3 x 2.2 (33.0 x 55.9)
3	4	12	1.6 x 1.9 (40.6 x 48.3)
3	6	18	1.6 x 2.5 (40.6 x 63.5)
4	4	16	1.9 x 1.9 (48.3 x 48.3)
4	5	20	1.9 x 2.2 (48.3 x 55.9)
4	6	24	1.9 x 2.5 (48.3 x 63.5)
4	8	32	1.9 x 3.1 (48.3 x 78.7)
4	10	40	1.9 x 3.7 (48.3 x 94.0)
5	10	50	2.2 x 3.7 (55.9 x 94.0)
6	6	36	2.5 x 2.5 (63.5 x 63.5)
6	8	48	2.5 x 3.1 (63.5 x 78.7)
6	9	54	2.5 x 3.4 (63.5 x 86.4)
6	10	60	2.5 x 3.7 (63.5 x 94.0)
8	8	64	3.1 x 3.1 (78.7 x 78.7)
8	12	96	3.1 x 4.3 (78.7x109.2)
10	10	100	3.7 x 3.7 (94.0 x 94.0)
10	12	120	3.7 x 4.3 (94.0x109.2)
12	12	144	4.3 x 4.3 (109.2x109.2)

To order, specify Scanivalve #:



*150 psi for 144 tube connector.
Small tube quantity connectors capable up to 500 psi

Pneumatic Manifolds (500PSI)

The pneumatic manifolds are available in two designs, single manifold and double manifold. Tubulation sizes are .040 inch, .063 inch and .125 inch O.D. Lengths of the manifold are customer specified based on number of tubes. The maximum number is 12 tubes for a single manifold and 24 tubes for a double manifold.

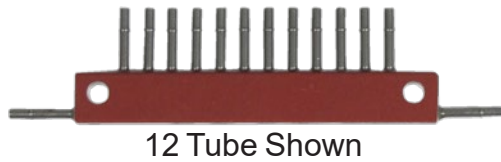
Materials: Connector body is anodized aluminum. Tubulations are stainless steel.

Available Colors: CLR (clear), BLK (black), GLD (gold), RED, BLU (blue), and GRN (green). If a color is not specified at time of order, Scanivalve will supply a color based on availability.

M - Single Manifold (12 tube Maximum)

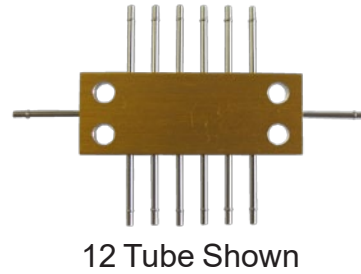


8 Tube Shown

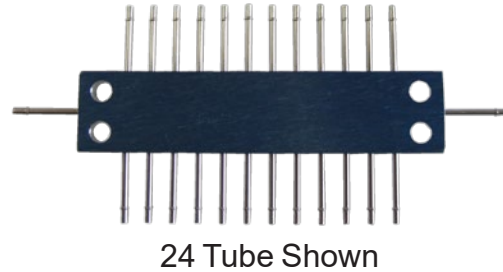


12 Tube Shown

2M - Double Manifold (24 tube Maximum)



12 Tube Shown



24 Tube Shown

To order, specify Scanivalve #:	
Single Manifolds	Double Manifolds
TC 040 - M 3 (Color)	TC 040 - 2M 4 (Color)
TC 063 - M 3 (Color)	TC 063 - 2M 4 (Color)
TC 125 - M 3 (Color)	TC 125 - 2M 4 (Color)

Tube Connector Specify Color
 Tubulation Size No. of Tubes
 Single Manifold

Tube Connector Specify Color
 Tubulation Size No. of Tubes
 Double Manifold

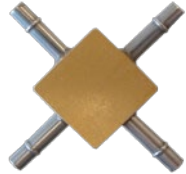

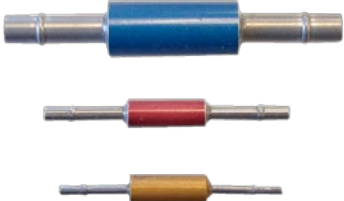
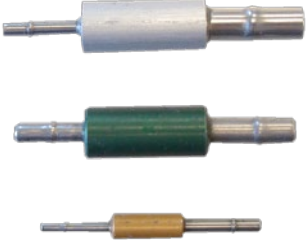

Tube Connectors

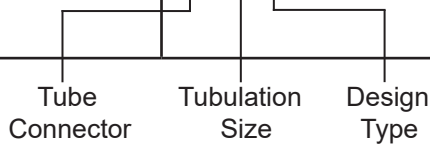
These connectors are made by affixing stainless steel tubulations into colored anodized aluminum blocks. The tube connectors are optionally available with a brass body with stainless steel tubulations soldered to the connector body for enhanced durability in harsh environments. All tubulations are bulged (except .031 and .250) for use with Scanivalve Helical Tubing Clamps.

Available Colors: CLR (clear), GLD (gold), BLK (black), RED, GRN (green), and BLU (blue). If a color is not specified at the time of order, Scanivalve will supply a color based upon availability.

Sizes Available:

.031 (no bulge), .040, .063, .125, .250 (no bulge) inches O.D. All tubulation size combinations are available.

To order, specify:			
Item:	Scanivalve #:	Type:	Design:
Tube Connector "X" Design	TC 040 X (specify color) TC 063 X TC 125 X	"X"	
Tube Connector "T" Design	TC 040 T (specify color) TC 063 T TC 125 T	"T"	
Tube Connector "I" Design" (for color identification of pressure lines)	TC 040 I (specify color) TC 063 I TC 125 I	"I"	
Tube Connector "R" Design*	TC 040-031 R (specify color) TC 063-031 R TC 063-040 R TC 125-031 R TC 125-040 R TC 125-063 R TC 187-125 R TC 250-063 R	"R"	
Tube Connector "P" Design	TC 040 P (specify color) TC 063 P TC 125 P	"P"	



*Two sizes required for "R" Connector

Quick Couplers

Quick Coupler (Patented)

This quick coupler is designed for use during pressure testing where there is a need for changing pressure inputs quickly. They can be used with various lengths of stainless steel tubing with chamfered ends. The QC063-2 quick coupler is capable of operating at pressures up to 1000 psi.

Use:

1. To connect, push smooth end of tubing into coupler. Tubing is sealed with a captured internal O-ring and mechanically held by the collet which is initially closed by spring force. When the coupler is pressureized, an internal piston applies additional closing force to the collet.
2. To disconnect, shut off the air supply and then depress the collet.

Quick Coupler Designs

QC-XXX-2

The model -2 quick coupler design incorporates 2 collets in order to accept a steel tubulation at each end.

QC-XXX-TH

The model -TH quick coupler design incorporates a collet at one end and a threaded nose and O-Ring at the other end. The .063 version comes with an 8-32 thread, and the .125 version has a 1/4-28 thread.

QC-XXX-TUBN-XXX

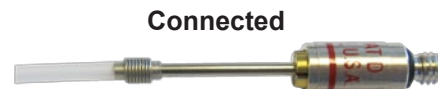
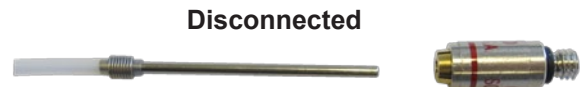
The model -TUBN quick coupler design incorporates a collet at one end and a .063 or .125 inch tubulation on one end.

TUBN-XXX-X

See Stainless Steel Tubulations on page 3.

CAUTION:

Do not push bulged end of tubulation into coupler. A chamfered edge is required.



QC063-2



QC063-TH8



QC063-TUBN063

Ordering Information

To order, specify Scanivalve #:		.063 O.D. Tubulation Size	.125 O.D. Tubulation Size
Collet Each End	Model-2	QC063-2	QC125-2
Thread One End	Model-TH	QC063-TH8	QC125-TH25
Tube One End	Model-TUBN	QC063-TUBN063	QC125-TUBN125

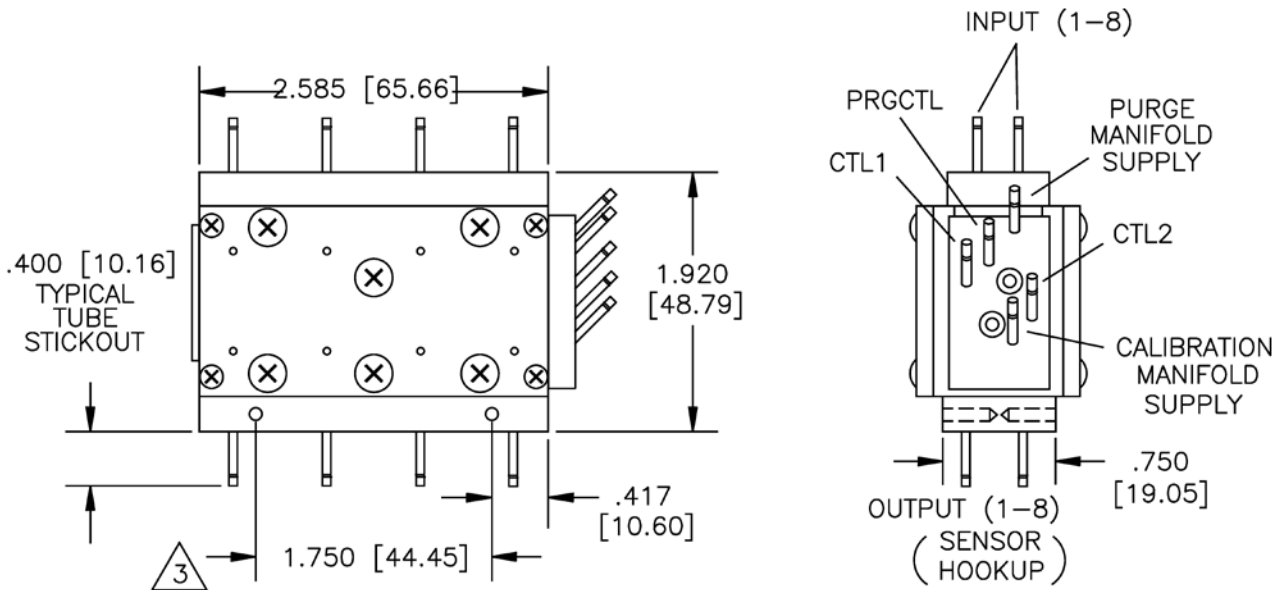
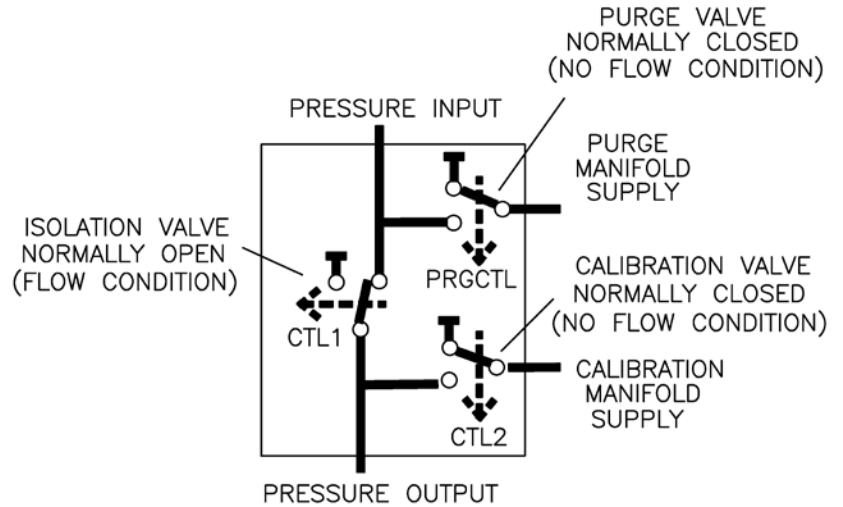
Pneumatic Calibration/Purge Valve

The pneumatic calibration/ purge valve is a 3 way, 8 channel (8P-3T) pneumatic logic valve ideal for calibrating up to 8 individual pressure transducers of similar pressure range. A 90-120 psi control pressure is required to switch the valve from the default measurement mode to the calibration, purge, or isolate mode.

Ordering Information: ZOCCAL/ADPT

In calibration mode, input pressures are isolated allowing the user to apply a calibration to the 8 ports that are now manifolded together.

The Purge mode allows a purge pressure to be input to purge condensation or contamination back through the input tubes and away from the measurement equipment.



All measurements = Inches [mm]



Instrumentation Devices Srl

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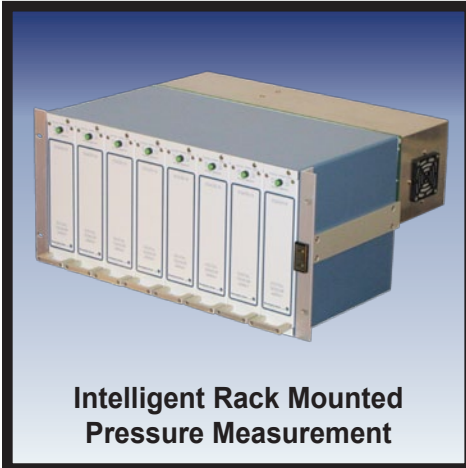
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