



**EVOLUTION**  
MEASUREMENT

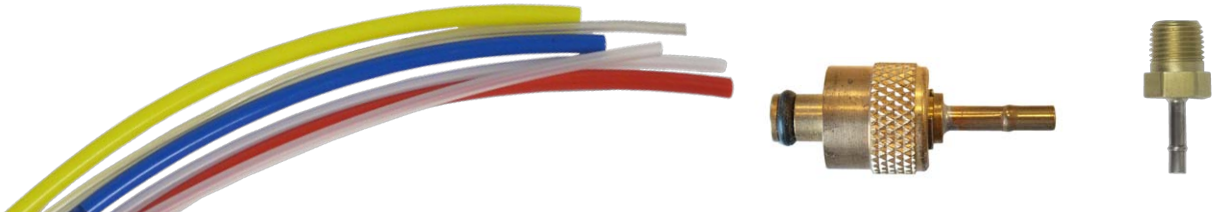
# ***Scanivalve***

## **Pneumatic Connector, Tubing, and Accessory Catalog**

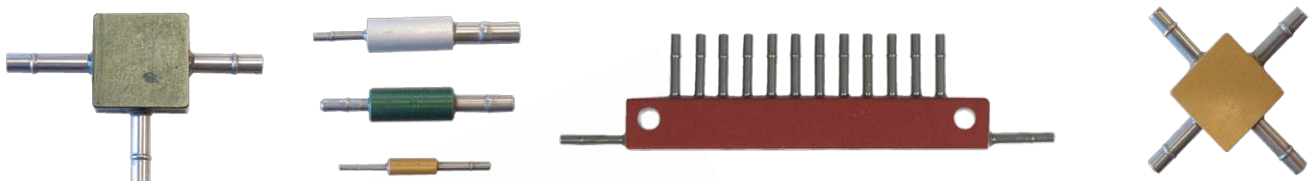
### *Pneumatic Quick Connectors*



### *Plastic Tubing and Adaptors*



### *Tube Connectors and Manifolds*



### *Plumbing Tools*





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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

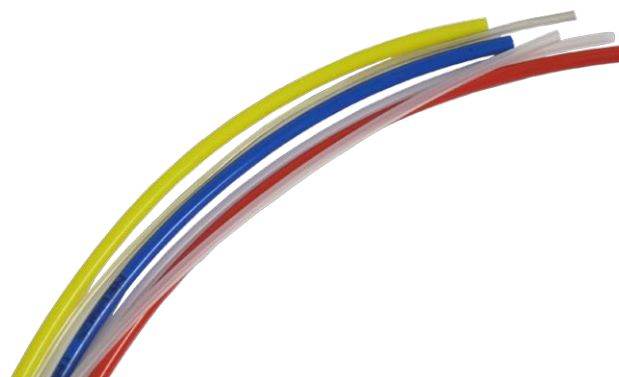
Available stock materials are urethane, nylon, vinyl and Teflon. Sizes are available to fit over .031 inch through .125 inch tubulations. Tubing is sold by the spool.

## 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 to 1500 psi (burst pressure .063) with helical tubing clamps and sealant. As a special order, NYLN-125HW can be ordered in a variety of colors.

## 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. † Indicates special order

\*\* Do not use this tubing in vacuum applications. I.D.= Inner Diameter. O.D.= Outer 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)
NYLN-063	.057 (1.45)	.089 (2.26)	1000 (6895)	1500 (10340)	1000 (6895)	110 (225)	-65 (-85)	800 (5515)	1.25 (31.75)
NYLN-125HW	.117 (2.97)	.187 (4.75)	600 (4135)	1000 (6895)	750 (5170)	100 (212)	-65 (-85)	500 (3448)	1.75 (44.45)
TFLN-040	.036 (0.91)	.068 (1.73)	500 (3448)	700 (4825)	575 (3965)	260 (500)	-70 (-94)	70 (480)	0.50 (12.7)
TFLN-063	.053 (1.35)	.086 (2.18)	500 (3448)	700 (4825)	575 (3965)	260 (500)	-70 (-94)	70 (480)	0.75 (19.05)
TFLN-125	.106 (2.69)	.138 (3.51)	200 (1380)	350 (2415)	240 (1655)	175 (350)	-70 (-94)	50 (345)	1.25 (31.75)
URTH-031	.027 (.69)	.051 (1.30)	125 (860)	375 (2585)	160 (1100)	95 (200)	-65 (-85)	70 (480)	0.188 (4.78)
URTH-040	.034 (.86)	.066 (1.68)	125 (860)	350 (2415)	150 (1035)	95 (200)	-65 (-85)	70 (480)	0.25 (6.35)
URTH-063	.054 (1.37)	.086 (2.18)	100 (690)	250 (1725)	150 (1035)	95 (200)	-65 (-85)	50 (345)	0.25 (6.35)
VINL-040	.034 (.86)	.066 (1.68)	100 (690)	400 (2760)	200 (1380)	65 (150)	-40 (-40)	35 (240)	0.32 (8.12)
VINL-063	.054 (1.37)	.086 (2.18)	90 (620)	250 (1725)	160 (1100)	65 (150)	-40 (-40)	35 (240)	0.50 (12.7)
VINL-125	.106 (2.69)	.138 (3.51)	40 (275)	175 (1205)	50 (345)	65 (150)	-40 (-40)	35 (240)	0.63 (16.0)

# 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
Stainless Steel Tubulation Size:	Scanivalve Tubing:	For use on Vinyl or Urethane tubing, #:	Scanivalve Tubing:	For use on nylon or Teflon tubing, #:
.040 Inch (1.02mm) 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 NYLN-125HW	NYCLMP-125 NYCLMP-125HW

## Pipe Sealant

The use of sealant with the helical tubing clamps is recommended for pressures above 250 psi. Brush the sealant lightly over the bulge of the stainless steel tubulation, then drive the tubing and clamp onto the tubulation. Allow 24 hours to fully cure. 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 his equipment. The tubulations are manufactured in lengths between 0.55 inches and 8.0 inches.



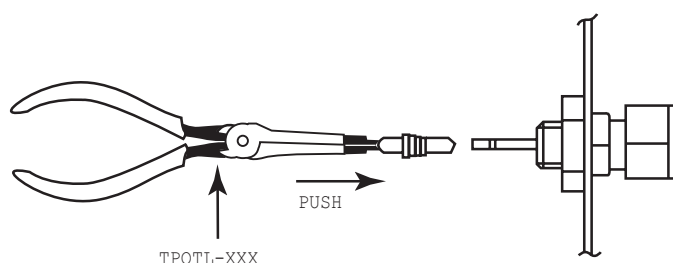
To order, specify:		
Scanivalve #:	Standard Lengths (Inches)	Tubulation Size
TUBN-040 (Specify Length)	.55, .75, 1.0, 2.0, 3.0, 4.0	.040 Inch (1.02mm) O.D.
TUBN-063 (Specify Length)	.55, .75, 1.0, 2.0, 3.0, 4.0	.063 Inch (1.59mm) O.D.
TUBN-125 (Specify Length)	.75, 1.0, 2.0, 3.0, 4.0	.125 Inch (3.18mm) O.D.

## 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 Scanivalve#	
TPOTL-040	
TPOTL-063	
TPOTL-125	
TPOTL-125HW	

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.

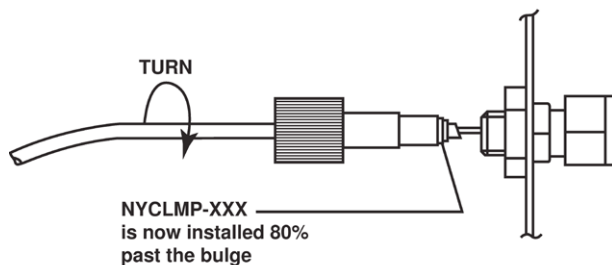
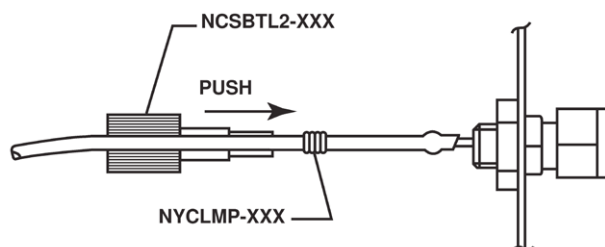
Clamps, tools, and tubing sizes are based on Scanivalve nominal stainless steel tubulation outside diameter. Actual dimensions of clamps, tools, and tubing may vary.



To order, specify Scanivalve#	
NCSBTL2-063	
NCSBTL2-125	
NCSBTL2-125HW	
NCSBTL3-040	
NCSBTL3-063	
NCSBTL3-125	
NCSBTL3-125HW	

Model      Tubulation Size

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



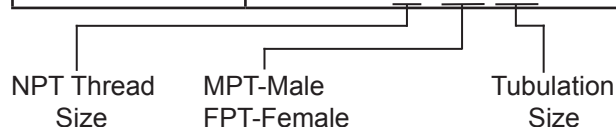


# Tube/Pipe Connectors

## 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.

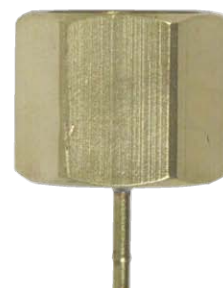
To order, specify:	
Item:	Scanivalve#:
1/8" MPT Fitting to Tube Connector	TC 1/8 MPT-031 R*
	TC 1/8 MPT-040 R
	TC 1/8 MPT-063 R
	TC 1/8 MPT-125 R
1/4" MPT Fitting to Tube Connector	TC 1/4 MPT-031 R*
	TC 1/4 MPT-040 R
	TC 1/4 MPT-063 R
	TC 1/4 MPT-125 R
1/8" FPT Fitting to Tube Connector	TC 1/8 FPT-031 R*
	TC 1/8 FPT-040 R
	TC 1/8 FPT-063 R
	TC 1/8 FPT-125 R
1/4" FPT Fitting to Tube Connector	TC 1/4 FPT-031 R*
	TC 1/4 FPT-040 R
	TC 1/4 FPT-063 R
	TC 1/4 FPT-125 R



\*.031 inch tubulations do not have a bulge



MPT Shown



FPT Shown

## Tube Adaptors for X-Lok Compression Fittings - 1500 psi

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 stainless steel tubulations or other.

1/4 Inch (6mm) X-Lok reduced to:	1/8 Inch (3mm) X-Lok reduced to:
Cap	Cap
.040	.040
.063	.063
.083	.125
.125	

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.



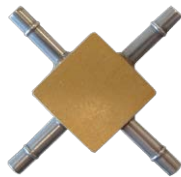

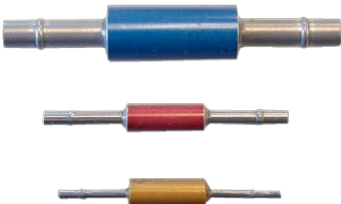
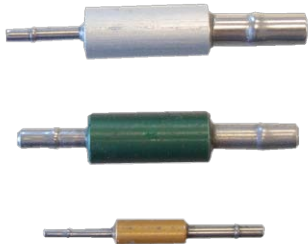

# Tube Connectors

These connectors are made by affixing stainless steel tubing into colored anodized aluminum blocks. The tube connectors are optionally available with a brass body with soldered stainless steel tubing when an extra safety factor is required to ensure no leaks due to handling. 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"	

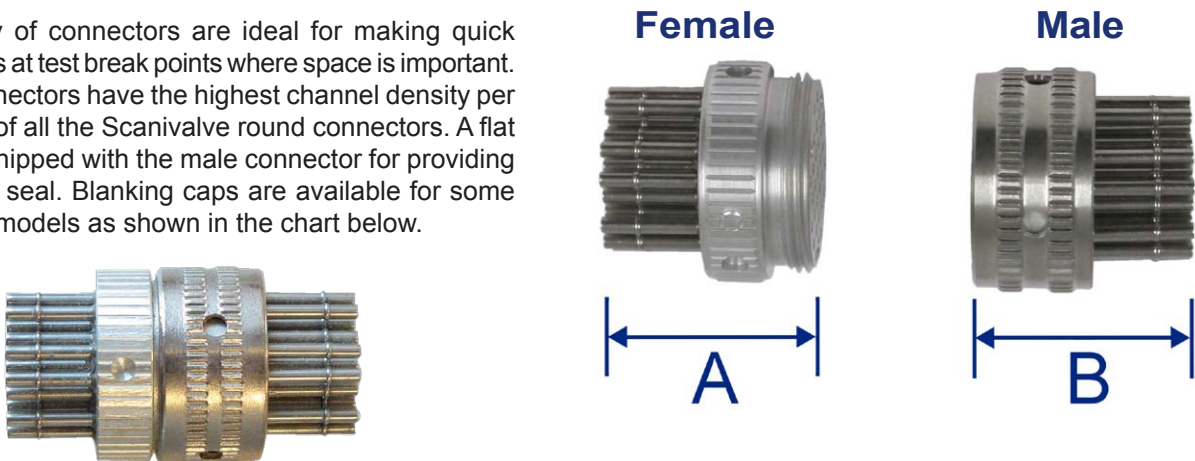
Tube Connector      Tubulation Size      Design Type

\*Two sizes required for "R" Connector

# Pneumatic Connectors (100 PSI)

## Quick Disconnect

This family of connectors are ideal for making quick disconnects at test break points where space is important. These connectors have the highest channel density per connector of all the Scanivalve round connectors. 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.



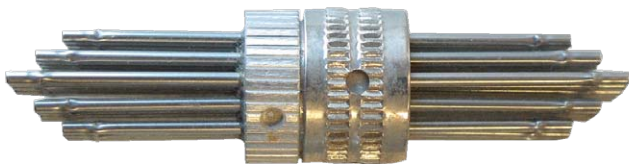
Dimensions: Inches (mm)				
Number of Tubulations	Connector Diameter	A	B	Tubulation Dimensions
19	.460 (11.7)	.760 (19.3)	.790 (20.1)	.040 (1.02) O.D.
31	.560 (14.2)	.540 (13.7)	.580 (14.7)	.040 (1.02) O.D.
31	.900 (22.9)	.690 (17.6)	.765 (19.4)	.063 (1.59) O.D.
36	.625 (15.88)	1.0 (25.4)	.960 (24.4)	.040 (1.02) O.D.
55	.700 (17.8)	.540 (13.72)	.565 (14.4)	.040 (1.02) O.D.
55	1.125 (28.6)	.690 (17.53)	.784 (19.9)	.063 (1.59) O.D.

Dimensions A and B is the distance to the longest tube.

To order, specify:					
Number of Tubulations	Male Connector #	Female Connector #	Spare Gasket #	Male Cap #	Female Cap #
19	19M460**	19F460**	50059-1	N/A	50013-3
31	31M560*	31F560*	50159-1	N/A	50013-2
31	31M900	31F900	50139-2	N/A	N/A
36	36M625**	36F625**	50778-1	N/A	N/A
55	55M700	55F700	50007-1	50024	50013-1
55	55M1.125	55F1.125	50129-1	50110-1	N/A

\*Available in pyramid configuration. Specify at time of order.

\*\* Only available in pyramid configuration.



Pyramid Configuration Shown Above

# Pneumatic Connectors- 24C, 48C, and 64C

## Description

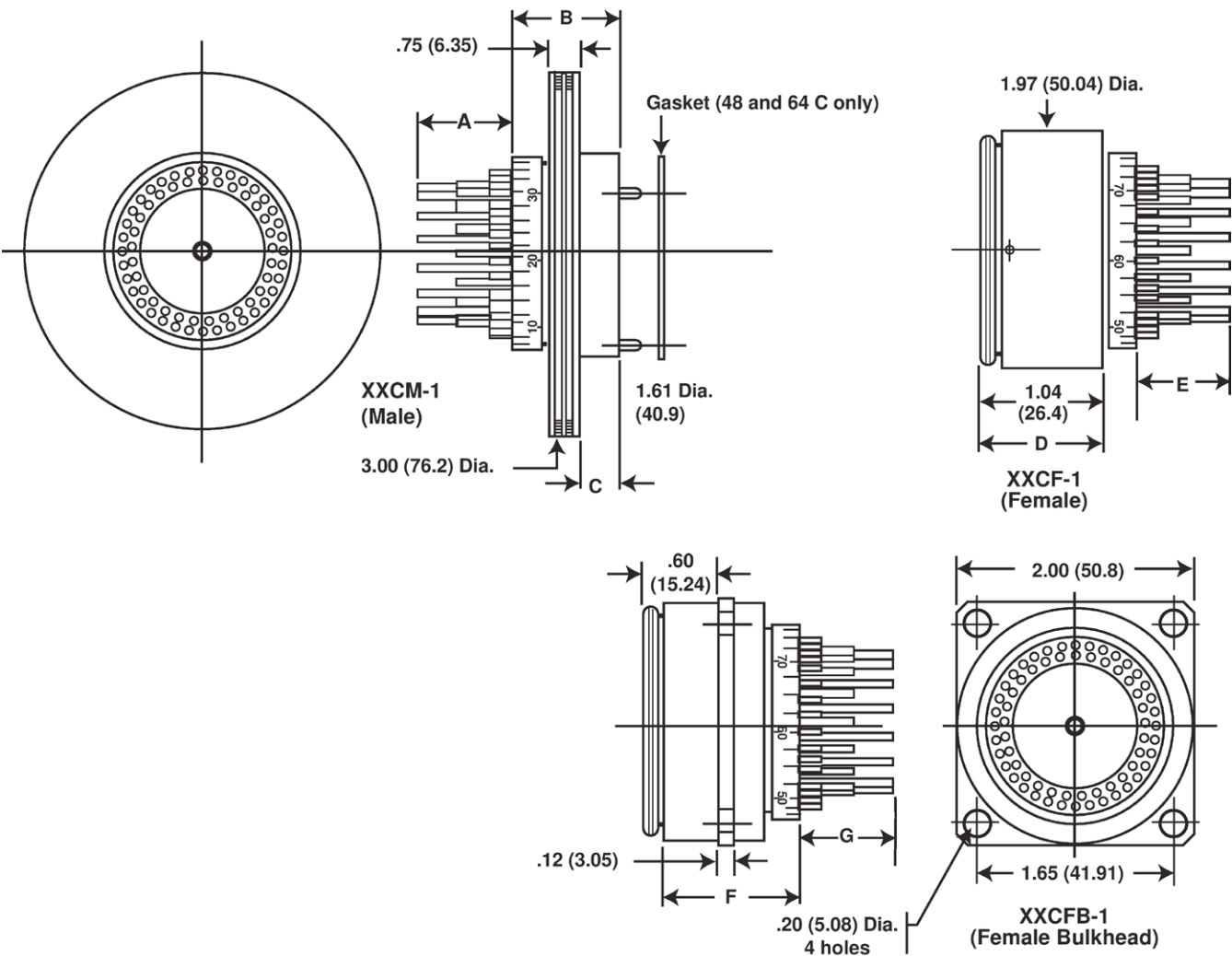
The line of CM connectors, when used with a CF (female connector), or a CFB (female bulkhead connector), become ideal quick disconnects at pressure break points. The stainless steel tubulations are designed to fit either Scanivalve .063 or .125 tubing. A 2 inch retainer is available as an additional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



64CFB-1



64CM-1



## Pneumatic Connectors- 24C, 48C, and 64C

<b>24C Pneumatic Connectors(500psi)</b>											
ScanCo#	Description	No. of Tubulations	Tubulation Size	A	B	C	D	E	F	G	Cap
24CM-1	Male Connector	24	.125" O.D. (3.18)	.86" (21.8)	.90" (22.9)	.36" (9.14)					NA
24CF-1	Female Connector	24	.125" O.D. (3.18)				1.30" (33.0)	.86" (21.8)			NA
24CFB-1	Female Bulkhead Connector	24	.125" O.D. (3.18)						1.30" (33.0)	.86" (21.8)	NA
0995-070X-150B	Spare O-Rings										

<b>48C Pneumatic Connectors(500psi)</b>											
ScanCo#	Description	No. of Tubulations	Tubulation Size	A	B	C	D	E	F	G	Cap
48CM-1	Male Connector	48	.063" O.D. (1.59)	.82" (20.8)	.82" (20.8)	.34" (8.64)					NA
48CF-1	Female Connector	48	.063" O.D. (1.59)				1.26" (32.0)	.86" (21.8)			6386-1
48CFB-1	Female Bulkhead Connector	48	.063" O.D. (1.59)						1.13" (28.7)	.86" (21.8)	6386-1
6025	Spare Gasket										
5180	Optional Gaskage										

<b>64C Pneumatic Connectors(100psi)*</b>											
ScanCo#	Description	No. of Tubulations	Tubulation Size	A	B	C	D	E	F	G	Cap
64CM-1	Male Connector	64	.063" O.D. (1.59)	.77" (19.6)	.87" (22.1)	.34" (8.64)					NA
64CF-1	Female Connector	64	.063" O.D. (1.59)				1.30" (33.0)	.78" (19.8)			NA
64CFB-1	Female Bulkhead Connector	64	.063" O.D. (1.59)						1.17" (29.2)	.78" (19.8)	NA
6305	Spare Gasket										
6015	Optional Gaskage										

\*Can be used up to 500psi with gaskage. Please consult factory.

# Pneumatic Connectors- Model D (300 PSI)

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 48 stainless steel tubulations. Standard “D” connectors use a gasket and are limited to 100psi. For applications up to 300 psi, a gaskage can be used and must be specified at the time of order. Male and female halves with different tubulation sizes can be mated together to act as a reducer, please consult the factory for this configuration.

To Order, Specify:

48

No. of Tubulations  
(24 or 48)

D

Model D

M

Connector Type:  
M -Male  
F - Female  
FB- Female Bulkhead  
FSB- Female Sealing Bulkhead

1/2

Nominal Tubulation Length

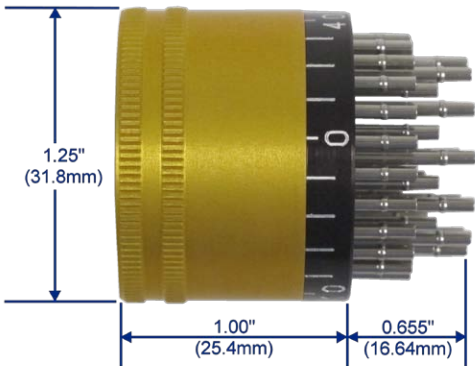
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063

Tubulation Size  
.040"  
.063"

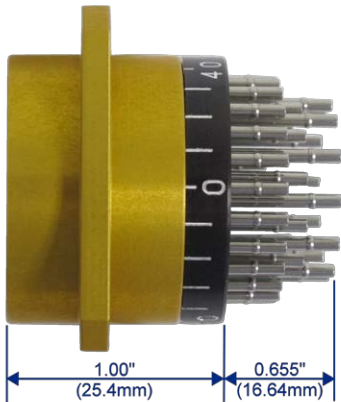


**48D8M-1/2**  
(Male)

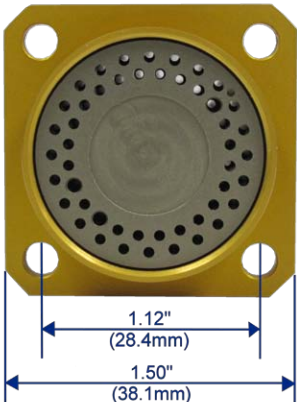


**48DF-1/2**  
(Female)

Spare Gasket for D Connector Part Number: 6088



**48DFB-1/2**  
(Female Bulkhead)



**0.16" (4.06mm)**  
Diameter Holes  
4 each



## Pneumatic Connectors- ZOC (500 PSI)

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 with different tubulation sizes can be mated together to act as a reducer, please consult the factory for this configuration.

**To Order, Specify:**

73	ZOC	M	063
No. of Tubes	Model	Connector Type	Tubulation Size
48 (.040 or .063)		M-Male	.063 O.D.
73 (.040 or .063)		F-Female	.040 O.D.
		FB- Female Bulkhead	
		FSB-Female Sealing Bulkhead	

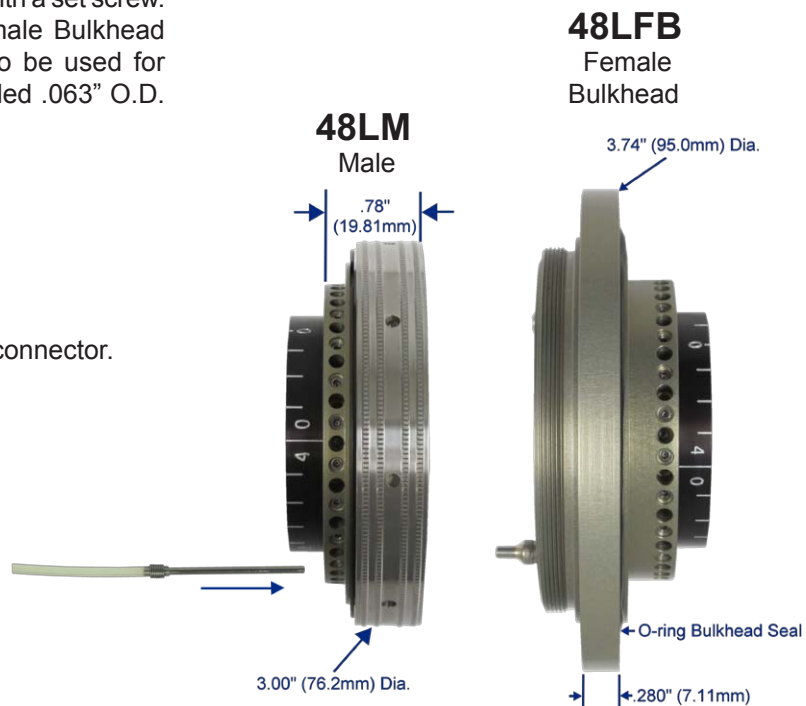


## High Pressure Model L Connector (1500 PSI)

The 48L series connectors are ideal for making quick disconnects at test break points. These connectors accept stainless steel tubing that is locked in place with a set screw. Six clearance holes are drilled in the Female Bulkhead connector half which allow 8-32 screws to be used for mounting. This tubing must be smooth ended .063" O.D. stainless steel tubing.

**Note:** Tubing supplied by customer must have smooth end, or order PN: TUBN-063-X (See page 3 for reference)

Caps are available to blank off half of the connector.  
To cap off 48LM, order PN: 6245-1  
To cap off 48LFB order PN: 6244-1





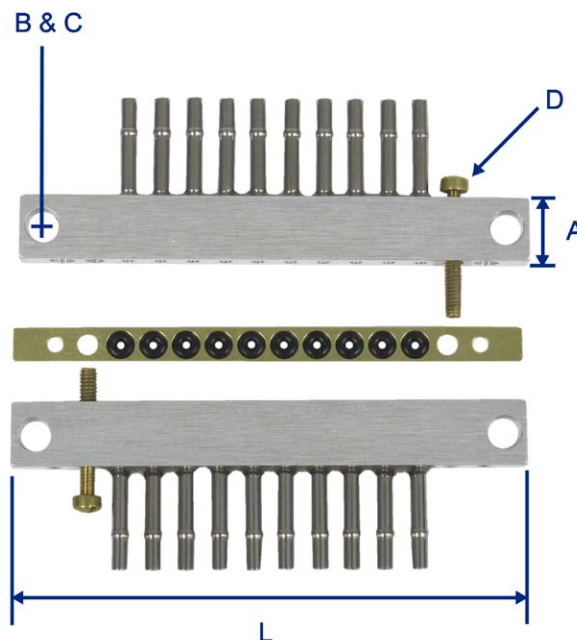
# Rectangular Connectors- RC2 (300PSI)

The materials of construction for these connectors are stainless steel tubulations cemented into anodized aluminum blocks. They have a caged O-ring gasket design that seals when connected.

**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 (no bulge), .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 (Hole Diameter)	C	D
.031 .041 .063	.125 (3.18)	.250 (6.35)	.125 (3.18)	No. 4 Mounting Screw	200300-02
.125	.250 (6.35)	.325 (9.53)	.140 (3.56)	No. 6 Mounting Screw	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 gasket are required to make one connector assembly.

**RC2/ 040 - 10 (GLD)**

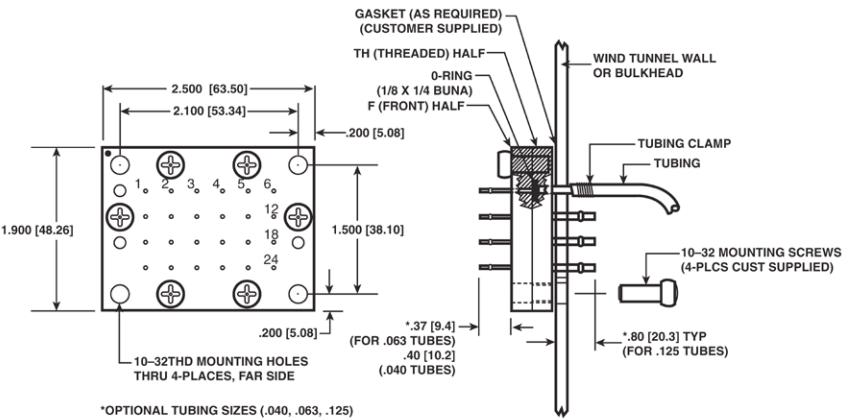
Model  
No. of Tubes (8, 10, 12)  
Tubulation Diameter .031, .040, .063, .125"  
Color

**RC2/ 040 - G - 10**

Model  
Gasket  
Tubulation Diameter  
No. of Tubes

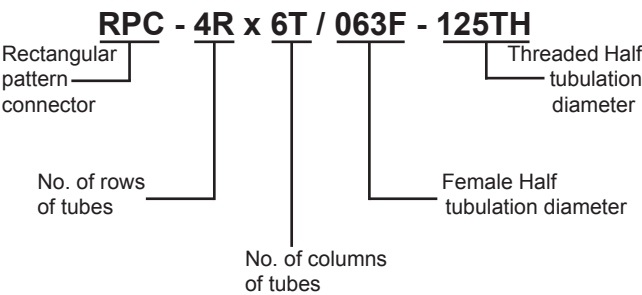
# Rectangular Pattern Connectors(150-500 PSI)\*

This rectangular pattern connector 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 TH(threaded half) half. Each side of the connector can have different tubulation sizes. O-rings are incorporated on the threaded half (TH) connector.

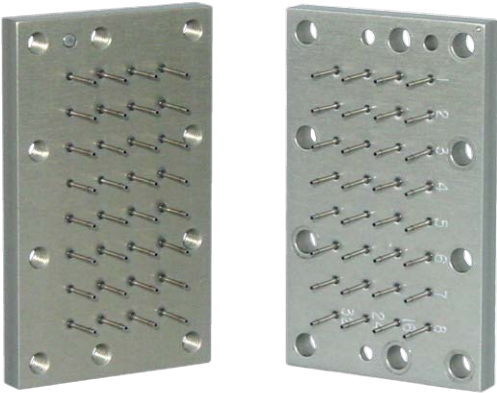


Dimension Inches (mm) - Standard Connector Size			
No. of Rows	No. of Columns	No. of Px	Dimensions: Height x Length Inches (mm)
2	4	8	1.3 x 1.9 (33.0 x 48.3)
2	5	10	1.3 x 2.2 (33.0 x 55.9)
3	4	12	1.6 x 1.9 (40.6 x 48.3)
3	6	18	1.6 x 2.5 (40.6 x 63.5)
4	4	16	1.9 x 1.9 (48.3 x 48.3)
4	5	20	1.9 x 2.2 (48.3 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

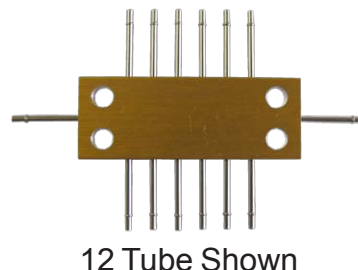


# Pneumatic Manifolds (500PSI)

## M - Single Manifold (12 tube Maximum)



## 2M - Double Manifold (24 tube Maximum)



The pneumatic manifolds are available in two designs, single manifold and double manifold. Tubulation sizes are .040 inch, .063 inch and .124 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. Custom configurations can be ordered with different inlet and outlet tube sizes. Please consult the factory.

**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.

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

# 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. The operating temperature is -40°C to 100°C.

### 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

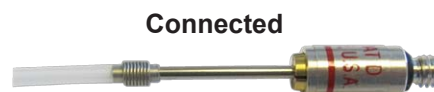
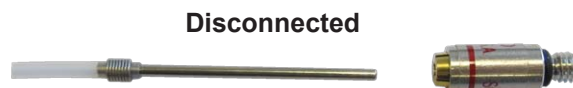
The model -TUBN quick coupler design incorporates a collet at one end and a .063 or .125 inch tubulation on one end.

### 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

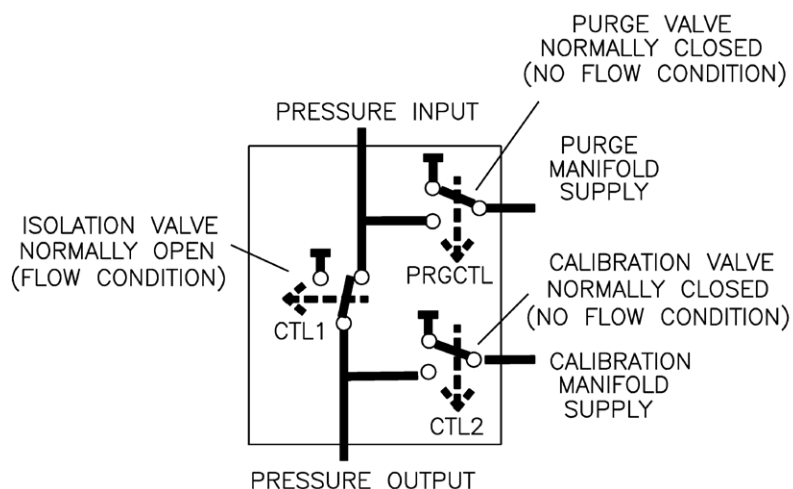
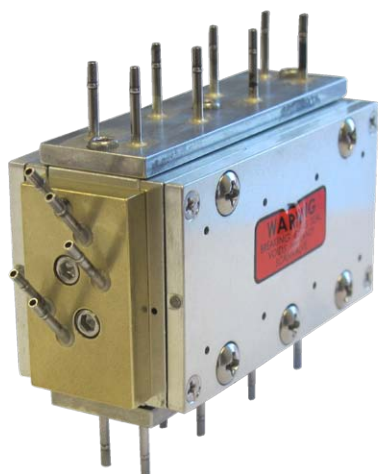
# Pneumatic Calibration/Purge Valve

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. The maximum operating pressure of this valve is 750 psi. The maximum purge pressure is 500 psi.

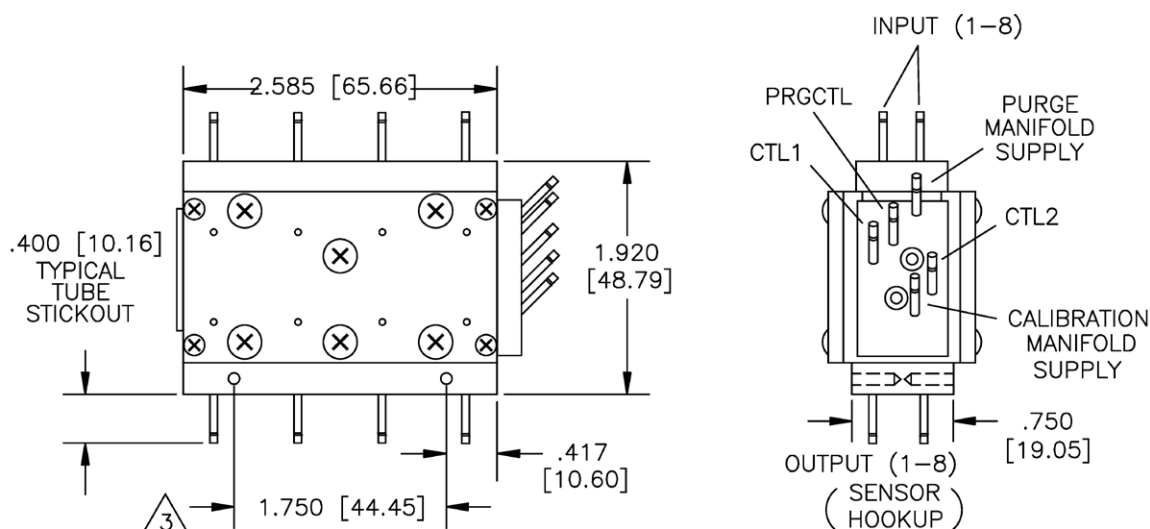
In calibration mode, input pressures are isolated allowing the user to apply a calibration pressure to the 8 sensors that are now manifolded together.

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

Ordering Information: ZOCCAL/ADPT



## Dimensions in Inches (mm)







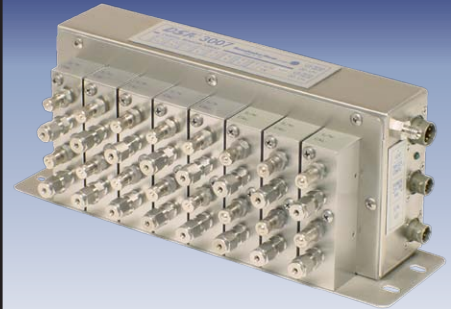
## Scanivalve Ethernet based Intelligent Pressure and Temperature Instruments.



**Miniature Intelligent Pressure Measurement**



**Intelligent Gas Pressure Measurement**



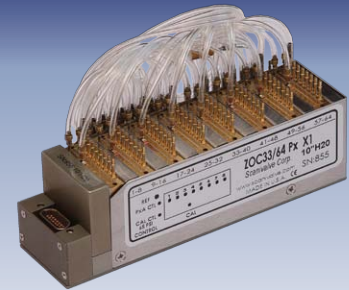
**Intelligent Liquid Pressure Measurement**



**Intelligent Rack Mounted Pressure Measurement**



**Flight/Wind Tunnel/ Auto Pressure Test**



**16, 32 and 64 channel ZOC Miniature Pressure Scanners**



**Ethernet Scalable Remote A/D**



**Servo Pressure Calibrator**



**Intelligent Thermocouple Scanner 16, 32, and 64 Channels**

Visit: [www.evolutionmeasurement.com](http://www.evolutionmeasurement.com) for more information

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