

Scanivalve PNEUMATIC CONNECTOR, TUBING, & ACCESSORY CATALOG

Pneumatic Quick Connectors







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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

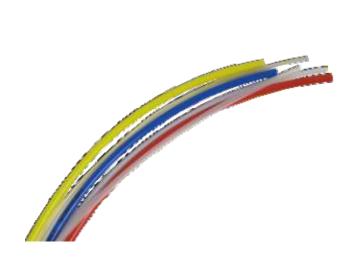
Available stock materials are urethane, Nylon, vinyl and Teflon. Sizes are available to fit over .031 inch through .125inchtubulations. Tubingissoldbythespool.

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 tubingclampsandsealant. Asaspecialorder,NYLN-125HWcanbeorderedinavarietyofcolors.

Teflon Tubing (Clear)

Thischemicallyinerttubingisratedat260°C*.ltuses the same helical tubing clamps as the Nylon tubing. Size .063 Teflon tubing has a recommended working pressure of500psiat21°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.063vinyltubinghasarecommended workingpressureof90psiat21°C.

Urethane Tubing (Clear)

Urethane tubing has a temperature rating of 95°C*. It is idealforlowpressuretestsinwindtunnelmodels. The tubingisextremelyflexible,resilient,andresistantto 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 of100psiat21°C.

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

Tubing Material Sizes Typically Stocked

* Temperatureratingsarereferencedtoatmosphericpressureof14.7psianominal.

[†] Indicates special order

O.D.=OutsideDiameter;I.D.=InsideDiameter

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]
NYLN-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]
NYLN- 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]
TFLN-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]
TFLN-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]
TFLN-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]	400 [2760]	200 [1380]	65[150]	-40[-40]	35[240]	0.32[8.12]	500[152.4]
VINL-063	.054 [1.37]	.086 [2.18]	90[620]	250 [1725]	160 [1100]	65[150]	-40[-40]	35[240]	0.50[12.7]	500[152.4]
VINL-125 [†]	.106 [2.69]	.138 [3.51]	40[275]	175 [1205]	50[345]	65[150]	-40[-40]	35[240]	0.63[16.0]	500[152.4]
* AllI.D.tolerances	ancesare±0).002"withtth	* Alll.D.tolerancesare±0.002" with the exception of TFLNt	TFLNtubing. All TFLNis±0.003"	Nis±0.003".					

• [†]SpecialOrder.Pleaseconsultfactory

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 ourvinylandurethanetubingonthetubulation. The stainless steel clamps are designed to fit over our Nylon and Teflontubing. Clamps, tools, and tubing sizes are based on Scanivalve nominal stainless steel tubulation outside diameter. Actual dimensions of clamps, tools, and tubing mayvary.



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-063orNYLN-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 recommendedforpressuresabove250psi.ltisbest usedonNylonand Teflontubing.

Application:Priortotubinginstallation,lightlybrusha small amount of sealant over the bulge of the stainless steeltubulation.Thendrivethetubingandclamponto 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 hoursbeforefullpressureisapplied.

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 brassorstainlesssteelhelicaltubingclampsfitoverthis bulge for a firm grip. It is recommended that the customer shouldepoxythenon-bulgedendintotheirequipment. The tubulations are manufactured in lengths between 0.55 inchesand8.0inches.



To Order, Specify: Scanivalve Part Number + Tubulation Length

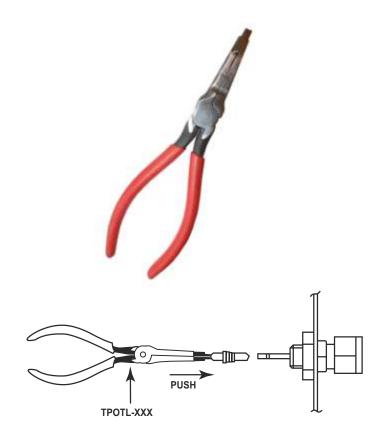
Scanivalve Part Number:	Standard Tubulation Lengths Inches	Tubulation Size Inches [mm]
TUBN-040	.55,.75,1.0,2.0,3.0,4.0	.040Inch[1.02mm]O.D.
TUBN-063	.56,.75,1.0,2.0,3.0,4.0	.063Inch[1.59mm]O.D.
TUBN-125	.75,1.0,2.0,3.0,4.0	.125Inch[3.18mm]O.D.

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 steeltubulations.Itcanalsobeusedtopushontubing without clamps. Clamps, tools, and tubing sizes are based on Scanivalve nominal stainless steel tubulation outside diameter. Actual dimensions of clamps, tools, and tubing mayvary.

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]

I I Model TubulationSize



Specialized Tubing Tools

NYCLMP Screw-Back Tool

TheNylonscrew-backtoolisdesignedtomanually install the helical clamps over the bulge of the tubulation. Thescrew-backtoolisslippedontothe tubulationbulgeuntilthebulgeisengaged.Byrotating thescrew-backtoolafewrevolutions,itwillscrewthe NYCLMPoverthebulge.Continueturningthehandle onthescrew-backtooluntiltheclampislocated80% overthebulge(onthesideofthebulgeclosesttothe terminationofthetubing).

Theversatilelong-handledversion,NCSBTL3, is especially suited for installing the NYCLMPs inhard to reachareas.

Theshort-handledversion, NCSBTL2 is used on panels where space is available.

Clamps,tools,andtubingsizesarebasedon Scanivalve nominal stainless steel tubulation outside diameter. Actualdimensionsofclamps,tools,and tubingmayvary.

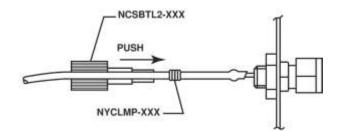
To Order, Specify:
NCSBTL2-063
NCSBTL2-125
NCSBTL2-125HW
NCSBTL3-040
NCSBTL3-063
NCSBTL3-125
NCSBTL3-125HW

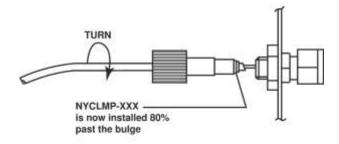
Model Tubulation Size

Note: When Heavy Walled (HW) tubing is used, specify theHWScrew-backtoollistedinthetable.









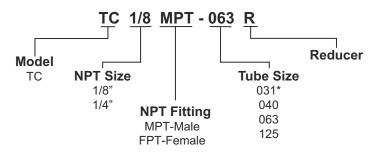
Tube/Pipe Connectors

Pipe Connectors

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

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

To Order, Specify:



*.031inchtubulationsdonothaveabulge





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 input fittings to our stainless steeltubulationsorother.

These fittings can be hand tightened to form a leak tight O-ringseal.Notoolsarerequired.Thetubeadaptor material is brass or stainless steel with brass or stainless steeltubulations(dependentonconfiguration).

To Order, Specify: ScanivalvePartNumber+Dash Number

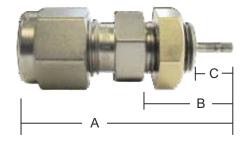
Scanivalve Part #	Dash Number	Tubulation Size	X-Lok Compression Fitting Size
	-1	Сар	
	-12	.040"	
5365	-2	.063"	1/4"[6mm]
	-4	.083"	
	-3	.125"	
	-2	Сар	
5365	-4	.040"	1/0"[2mm]
5305	-1	.063"	1/8"[3mm]
	-5	.125"	



X-Lok Adaptors

X-Lok to Tubulation

These fittings provide a compression fitting to one end and atubulationontheother. 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 pipethreadisbrass.



To Order, Specify: Scanivalve Part Number + Dash number

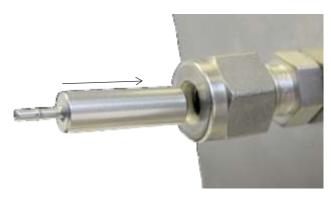
Scanivalve	Dash	Tubulation Size	Material	Conmpression	NPT	Α	В	С	
Part #	Number	Inches [mm]	Material	Fitting	Fitting Size		Inches [mm]		
	-1	.063[1.59]	Brass			1.660 [42.16]	.745 [18.92]	.370 [9.40]	
57022	-2	.125[3.18]			1/8"	1.880 [47.75]	.965 [24.51]	.590 [14.99]	
57022	-3	.063[1.59]	Stainless Steel Brass	Stainless	1/4"(6mm)	1/0	1.660 [42.16]	.745 [18.92]	.370 [9.40]
	-4	.125[3.18]				1.880 [47.75]	.965 [24.51]	.590 [14.99]	
	-1	.063[1.59]				1.570 [39.88]	.745 [18.92]	.370 [9.40]	
57032	-2	.125[3.18]		· 1/8"(3mm)	1/8"	1.770 [44.96]	.945 [24.00]	.570 [14.48]	
	-3	.063[1.59]	Stainless	1/0 (311111)	1/0	1.600 [40.64]	.775 [19.69]	.400 [10.16]	
	-4	.125[3.18]	Steel			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 fitintoX-Lokcompressionfittings.Themainfunctionof thesetubeadaptorsistoutilizethecompressionfitting and adapt to Scanivalve tubulation sizes. These adapters areallstainlesssteel.

To Order, Specify:ScanivalvePartNumber+Dash Number

Scanivalve Part #	Dash Number	Tubulation Size Inches [mm]	Material	Body O.D - 'D' Inches [mm]
	-1	.063[1.59]		.250[6.35]
E7029	-2	.125[3.18]	Stainless	.250[6.35]
57038	-3	.063[1.59]	Steel	.125[3.18]
	-7	.040[1.02]		.125[3.18]



Pressure Taps and Patch

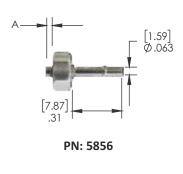
Pressure Tap

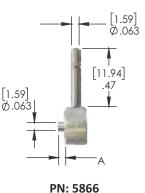
These pressure taps were designed to be a convenient solution for mounting tubulations to a model or test article. Using a hole drilled in the test article, the pressure tap can be fixed to the test article using adhesive. The through hole design of the tap (Dimension A) will allow for a flush finish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

Tubulation Sizes Available: .040" and .063"

To Order, Specify:ScanivalvePartNumber+Dash Number

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



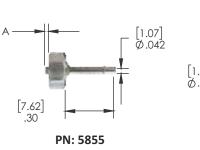


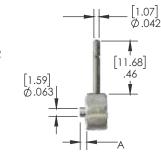
Allmeasurements=Inches[mm]



		D	ash Nun	nber		
	- 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 thickeness when choosing the 'A' dimension.





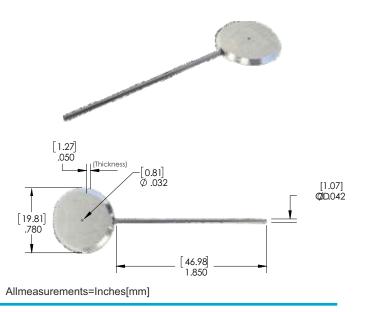
PN: 5865

Pressure Patch

The Pressure Patch is an alternate solution to the pressure tap in applications where drilling holes in the test article isunacceptableorinconvenient. Astainlesssteeltube isextrudedfromthechamberofanaluminumdisk. The aluminumbodycanbefixedtothetestarticleusingan appropriate adhesive based on the application. The patch was designed and tested to have minimal aerodynamic influenceswhenfixedtotheflatsurfaceofatestarticle.

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

To Order, Specify: PressurePatch(PN:5857)



Quick Disconnect (50-100psi)

Thisfamilyofconnectorsareidealformakingquick 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 withthemaleconnectorforprovidinganairtightseal. Blanking caps are available for some connector models as showninthechartbelow. Female



Dimensions: Inches [m	nm]			
Number of Tubulations	Connector Diameter	Α	В	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.

AandBdimensionsarethedistancetothelongesttube.

† All.031tubulationsarenon-buldged

To order, spe	ecify: 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

^Availableinpyramidconfiguration.Specifyattimeoforder.

^^Onlyavailableinpyramidconfiguration.

‡MaxPressure50psi

* AvailableinFemaleBulkhead

Note:MaleCapforFemaleConnector FemaleCapforMaleConnector Pricesmayvarybasedonconfiguration







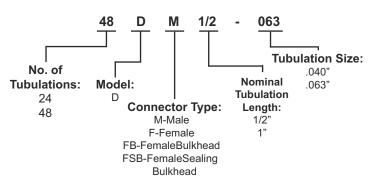
PyramidConfiguration

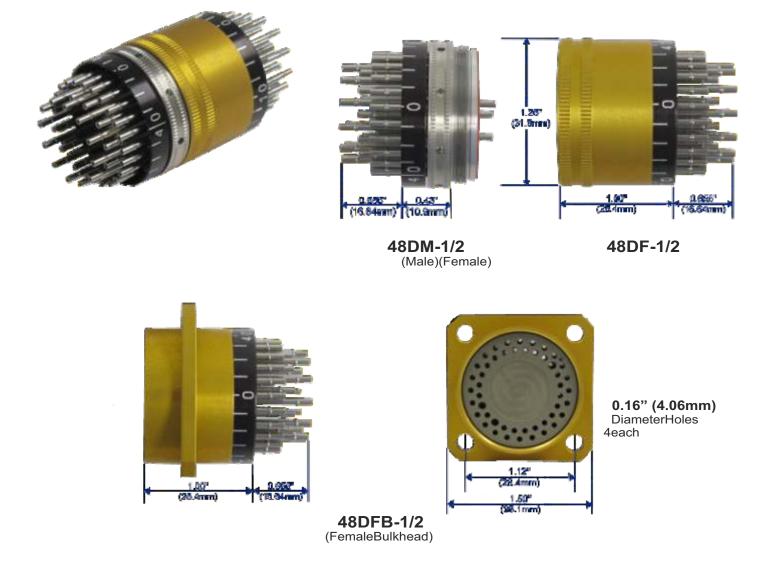
Model D (300psi)

The "D" Connectorsmake 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 100 psi. 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:





24C, 48C, and 64C

ThelineofCM(male)connectors,whenusedwithaCF (female connector), or a CFB (female bulkhead connector), become ideal quick disconnects at pressure break points. Thestainlesssteeltubulationsaredesignedtofiteither Scanivalve040,063,or125tubing.A2inchretaineris availableasanadditionaloption.

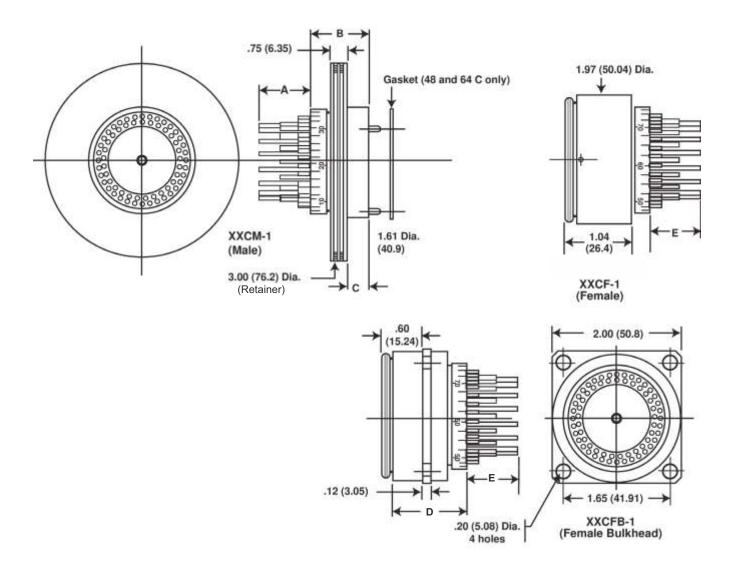
Blanking caps, spare O-rings, gaskets, and gascages can befound in the table on the following page.





64CFB-1

64CF-1



	24C Connector Dimensions (500psi)								
ScanCo#	Description	No. of Tubes	Tubulation Size	А	В	С	D	E	Сар
24CM-1	MaleConnector	24	.063[1.59]	.61[15.5]	.90[22.9]	.36[9.14]			65020-14
240101-1	MaleConnector	24	.125[3.18]	.86[21.8]	.30[22.3]	.50[9.14]			03020-14
24CF-1	FemaleConnector	24	.063[1.59]					.41[10.4]	65010-9
24CF-1	remaieConnector	24	.125[3.18]					.86[21.8]	65010-9
	Female Bulkhead		.063[1.59]				4 0.0500.01	.41[10.4]	05040.0
24CFB-1	Connector	24	.125[3.18]				1.30[33.0]	.86[21.8]	65010-9
0995-070X-	150B-SpareO-Rings								

	48C Connector Dimensions (500psi)								
ScanCo#	Description	No. of Tubes	Tubulation Size	А	В	С	D	Е	Сар
48CM-1	MaleConnector	48	.040[1.02]	.38[9.7]	00100 01	2419 641			NA
400101-1	MaleConnector	40	.063"[1.59]	.82[20.8]	.82[20.8]	.34[8.64]			NA
48CF-1	FemaleConnector	48	.040[1.02]					.42[10.7]	6386-1
40CF-1	FemaleConnector	40	.063"[1.59]					.83[21.1]	0300-1
	Female Bulkhead	40	.040[1.02]				4 4 9 5 9 7 1	.42[10.7]	6296.4
48CFB-1	Connector	48	.063"[1.59]				1.13[28.7]	.83[21.1]	6386-1
6025	Spare Gaske	et		-					0-
5180	Optional Gasc	age							

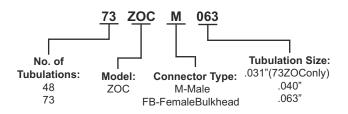
	64C Connector Dimensions (100psi)*								
ScanCo#	Description	No. of Tubes	Tubulation Size	А	В	С	D	Е	Сар
64CM-1	MaleConnector	64	.063[1.59]	.77[19.6]	.87[22.1]	.34[8.64]			NA
64CF-1	FemaleConnector	64	.063[1.59]		^	<u>~</u>		.78[19.8]	NA
64CFB-1	Female Bulkhead Connector	64	.063[1.59]				1.17[29.2]	.78[19.8]	NA
6305	Spare Gaske	et		George Contraction (Contraction)			6-	o	
6015	Optional Gasca	age							

*Canbeusedupto500psiwithgascage.Pleaseconsultfactory. Allmeasurements=Inches[mm]

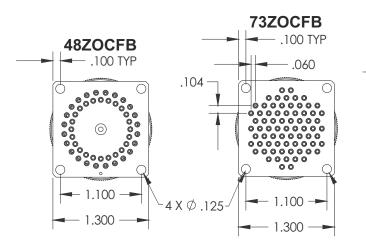
ZOC (500psi)

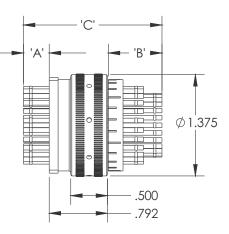
Thishighdensity48or73channelconnectorisavery popularbulkheadquickdisconnect.lt containseither.063 inchO.D.tubulationsor.040inchO.D.tubulations.This pneumatic connector is also used on our ZOCTCU Thermal Control Units. It is capable for use up to 500 psi. Male and female halves can be mated together to act as a reducer. Pleaseconsultthefactoryforthisconfiguration.

To Order, Specify:









ScanCo#	Description	No. of Tubes	Tubulation Size	А	В	C (M&F/FB)	Spare Gascage	Mating Cap
48ZOC-M	MaleConnector	48	.040[1.02]		.990[25.14]	2.04[51.82]	5180-1	6541-4
40200-101	MaleConnector	40	.063[1.59]		1.3[33.02]	2.44[61.98]	5160-1	0041-4
48ZOC-FB	Female Bulkhead	48	.040[1.02]	.260[6.60]			5180-1	6530-3
4020C-FB	Connector	40	.063[1.59]	.350[8.89]			5160-1	0000-0
			.031[.79]*		.300[7.62]	1.350[34.29]		
73ZOC-M	MaleConnector	73	.040[1.02]		1.050[26.67]	2.070[52.58]	6557-1	6561-9
			.063[1.59]		1.380[35.05]	2.500[63.5]		
			.031[.79]"	.260[6.60]				
73ZOC-FB	Female Bulkhead Connector	73	.040[1.02]	.230[5.84]			6557-1	6570-4
			.063[1.59]	.330[8.38]				

*.031tubulationsarenon-bulgedandnon-staggered

Allmeasurements=Inches[mm]

32MPS (100psi)

The "32MPS" Connectorsmake ideal quick disconnects at model test break points when both male and female connectors are used together. The seconnectors were based around the MPS4264 input header and contain the same ports. The connector consists of 32 ports of 0.031 (nonbulged) or 0.040 tubulations, and one purgeport (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.



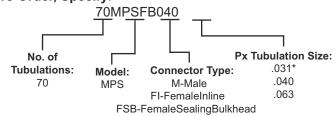
70MPS (500psi)

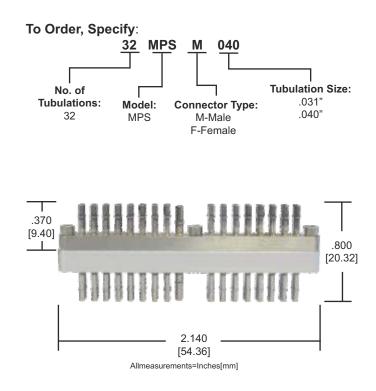
The "70MPS" Connectorsmake ideal quick disconnects at model test break points when both male and female connectors are used together. These pneumatic connectors areused on the MPSTCU and are rated for operating temperatures from -60°C to 125°C. The connector consists of 70 tubulation ports - 64 ports 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 tubulations is example mated together to actas are ducer. Please consult the factory for this configuration.

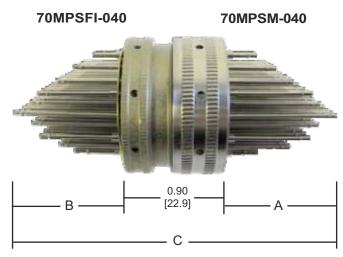
SpareGascagePartNumber:6557

Blanking cap for Male and Female connectors are available.

To Order, Specify:







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

Allmeasurements=Inches[mm] * All031tubulationsarenon-bulged

Pneumatic Connectors - High Pressure

Model L (1500psi)

The48Lseriesconnectorsareidealformakingquick disconnects at test break points. These connectors accept stainless steel tubing that is locked in place with a set screw. Thistubingmustbesmoothended.063"O.D.stainless steel tubing. Six mounting holes are drilled in the Female Bulkheadconnectorhalfwhichallow8-32screwstobe usedformounting.

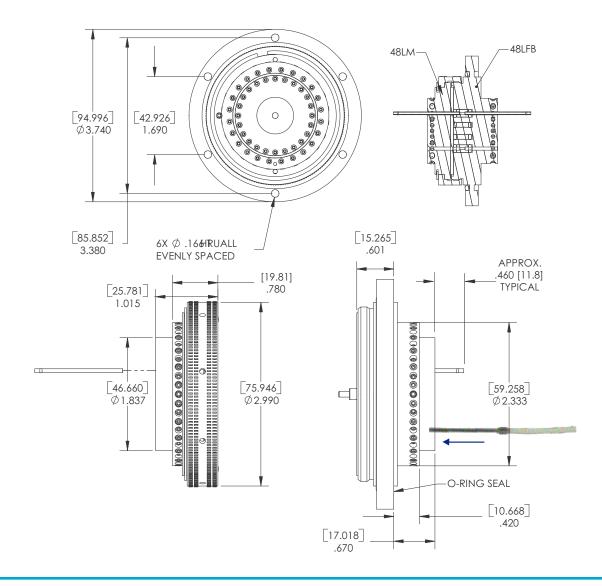
Note: Tubing supplied by customer must have smooth end,ororderPN: TUBN-063-X (Seepage4forreference)

Blanking caps are availble: Tocapoff48LM,orderPN:6245-1

Tocapoff48LFBorderPN:6244-1

48LM Male **48LFB** Female Bulkhead





Rectangular Connectors

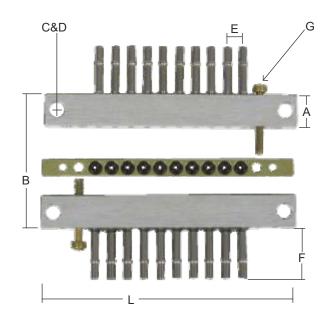
RC2 (300psi)

The materials of construction for these connectors are stainless steeltubulationscementedintoanodizedaluminumblocks. These connectors utilize a gascage to retain the o-rings and providealeak-tightsealwhenconnected.Whenconfigured with031,040,or063tubulations,differenthalvescanbe 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 oforder, Scanivalvewillsupplyacolorbasedonavailability.

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

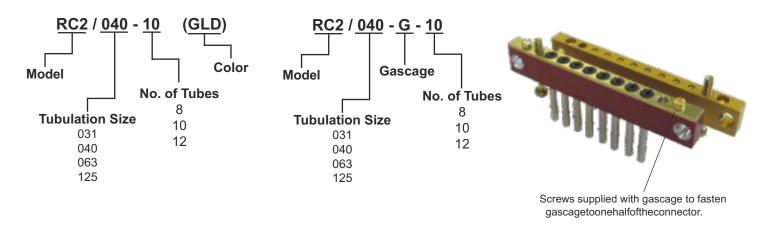
Number of Tubes	Connector Length "L" in Inches [mm]				
	For Tube I	Diameters:			
	.031,.040,.063	.125			
8	1.700[43.2]	2.875[73.0]			
10	1.950[49.5]	3.375[85.7]			
12	2.200[55.9]	3.875[98.4]			



	Dimensions in Inches [mm]							
Tube Diameter	Thickness	А	B (Assembled)	C (Hole Diameter)	D	E	F	G (Scanco #)
.031		050				4.05	.325[8.26]	
.040	.125[3.18]	.250 [6.35]	.532[13.51]	.125[3.18]	No.4Mounting Screw	.125	.375[9.53]	20300-02
.063		[0.00]			Ociew		.385[9.78]	
.125	.250[6.35]	.375 [9.53]	.782[19.86]	.140[3.56]	No.6Mounting 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.

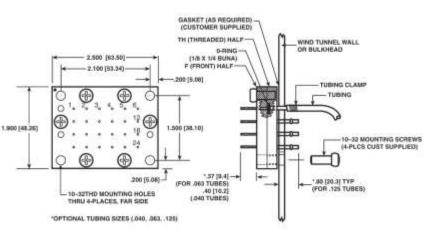
To Order, specify: Two(2)eachRC2connectorsplusagascagearerequiredtomakeoneconnectorassembly.



Rectangular Connectors

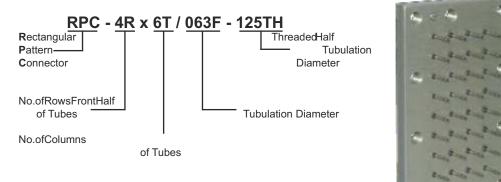
RPC (100-500psi*)

ThisRectangularPatternConnector(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 threadedhalf(TH).Eachsideoftheconnector canhavedifferenttubulationsizes.O-ringsare incorporated on the threaded half (TH) connector.



	Dimension Inch	es (mm) - Standard Cor	nnector Size
No.ofRows	No.ofColumns	No.ofPx	Dimensions: Height x Length Inches (mm)
2	4	8	1.3x1.9(33.0x48.3)
2	5	10	1.3x2.2(33.0x55.9)
3	4	12	1.6x1.9(40.6x48.3)
3	6	18	1.6x2.5(40.6x63.5)
4	4	16	1.9x1.9(48.3x48.3)
4	5	20	1.9x2.2(48.3x55.9)
4	6	24	1.9x2.5(48.3x63.5)
4	8	32	1.9x3.1(48.3x78.7)
4	10	40	1.9x3.7(48.3x94.0)
5	10	50	2.2x3.7(55.9x94.0)
6	6	36	2.5x2.5(63.5x63.5)
6	8	48	2.5x3.1(63.5x78.7)
6	9	54	2.5x3.4(63.5x86.4)
6	10	60	2.5x3.7(63.5x94.0)
8	8	64	3.1x3.1(78.7x78.7)
8	12	96	3.1x4.3(78.7x109.2)
10	10	100	3.7x3.7(94.0x94.0)
10	12	120	3.7x4.3(94.0x109.2)
12	12	144	4.3x4.3(109.2x109.2)

To order, specify Scanivalve #:





*150psifor144tubeconnector.

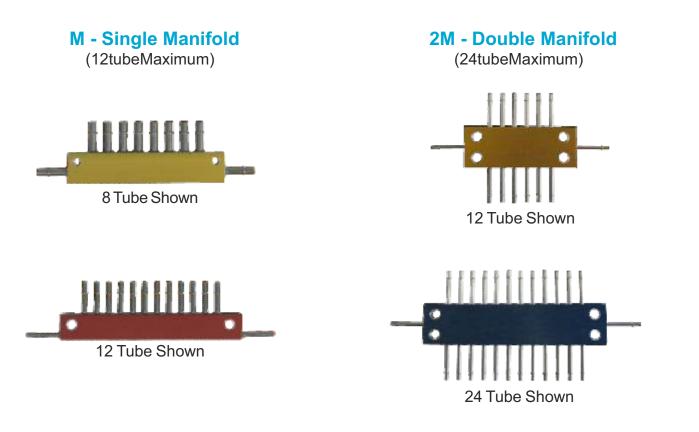
Smalltubequantityconnectorscapableupto500psi

Pneumatic Manifolds (500PSI)

The pneumatic manifolds are available in two designs, singlemanifoldanddoublemanifold. Tubulationsizes 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 manifoldand24tubesforadoublemanifold.

Materials: Connectorbodyisanodizedaluminum. Tubulationsarestainlesssteel.

Available Colors: CLR (clear), BLK (black), GLD (gold), RED,BLU(blue),andGRN(green).lfacolorisnot specified at time of order, Scanivalve will supply a color basedonavailability.



To order, specify Scanivalve #:	
Single Manifolds	Double Manifolds
TC040-M3(Color)	TC040-2M4(Color)
TC063-M3(Color)	TC063-2M4(Color)
TC125-M3(Color)	TC125-2M4(Color)
TubeConnectorSpecifyColor TubulationSizeNo.of Tubes	TubeConnectorSpecifyColor TubulationSizeNo.of Tubes
SingleManifold	DoubleManifold

Tube Connectors

Theseconnectorsaremadebya翻 xing stainlesssteel tubulationsintocoloredanodizedaluminumblocks. The tube connectors are optionally available with a brass body with stainless steel tubulations soldered to the connector bodyforenhanceddurabilityinharshenvironments. All tubulations are bulged (except .031 and .250) for use with ScanivalveHelical TubingClamps.

Available Colors: CLR(clear),GLD(gold),BLK (black),RED,GRN(green),andBLU(blue).Ifacolor isnotspecified at the time of order, Scanival ve will supplyacolorbaseduponavailability. **Sizes Available:**

.031 (no bulge), .040, .063, .125, .250 (no bulge) inches O.D. Alltubulationsizecombinationsareavailable.

Item:	Scanivalve #:	Туре:	Design:
Tube Connector "X" Design	TC040X(specifycolor) TC063X TC125X	"X"	
TubeConnector"T"Design	TC040 T(specifycolor) TC063 T TC125 T	"Т"	
Tube Connector "I" Design" (forcoloridentificationof pressurelines)	TC040I(specifycolor) TC063I TC125I	""	
Tube Connector "R" Design*	TC 040-031 R (specify color) TC063-031R TC063-040R TC125-031R TC125-040R TC125-040R TC125-063R TC187-125R TC250-063R	"R"	
Tube Connector "P" Design	TC040P (specifycolor) TC063P TC125P	"P"	

ConnectorSize

Туре

*Twosizesrequiredfor"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 inputsquickly. They canbeusedwithvariouslengths ofstainlesssteeltubingwithchamferedends.The QC063-2quickcoupleriscapableofoperatingat pressuresupto1000psi.

Use:

1. To connect, push smooth end of tubing into coupler. TubingissealedwithacapturedinternalO-ringand 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.Todisconnect,shutofftheairsupplyandthen depressthecollet.

Quick Coupler Designs

QC-XXX-2

Themodel-2quickcouplerdesignincorporates2 collets in order to accept a steel tubulation at each end.

QC-XXX-TH

Themodel-THquickcouplerdesignincorporatesa collet at one end and a threaded nose and O-Ring at the other end. The .063 version comes with an 8-32 thread,andthe.125versionhasa1/4-28thread.

QC-XXX-TUBN-XXX

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

TUBN-XXX-X

SeeStainlessSteel Tubulationsonpage3.

CAUTION:

Do not push bulged end of tubulation into coupler. A chamferededgeisrequired.



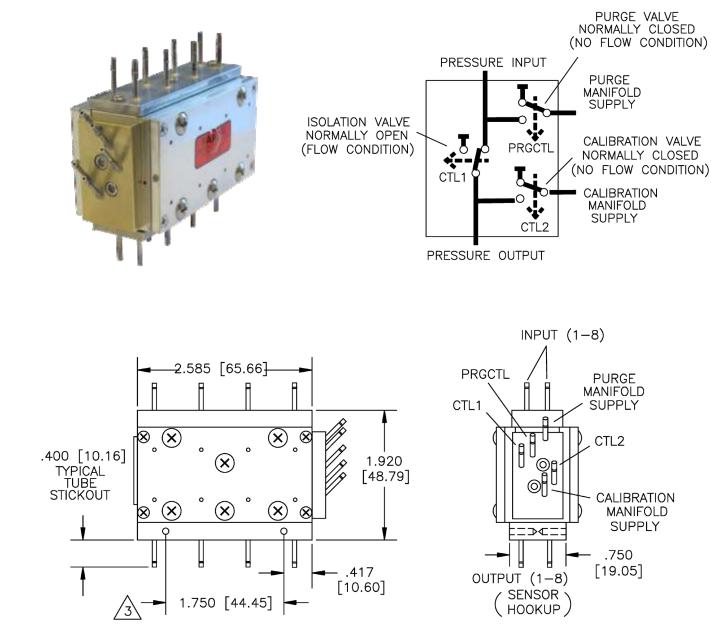
Ordering Information			
To order, specify Scanivalve #:		.063 O.D. Tubulation Size	.125 O.D. Tubulation Size
ColletEachEnd	Model-2	QC063-2	QC125-2
ThreadOneEnd	Model-TH	QC063-TH8	QC125-TH25
TubeOneEnd	Model-TUBN	QC063-TUBN063	QC125-TUBN125

Pneumatic Calibration/Purge Valve

Thepneumaticcalibration/purgevalveisa3way,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,orisolatemode. In calibration mode, input pressures are isolated allowing the user to apply a calibration to the 8 ports that are now manifoldedtogether.

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.

Ordering Information:ZOCCAL/ADPT



Allmeasurements=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



Miniature Analog Pressure Scanners



Ethernet Scalable Remote A/D



Servo Pressure Calibrator



Intelligent Thermocouple Scanner 16, 32, and 64 Channels

Contact Information:

Evolution Measurement Limited 7 Regents Court, South Way, Walworth Business Park, Andover, Hampshire, SP10 5NX UK E: enquiries@evolutionmeasurement.com T: +44 (0)1264 316470 www.EvolutionMeasurement.com



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