



Pneumatic Connectors and Tubing Catalogue – G850

CALIBRATION DYNAMICS
For Today's Solutions & Beyond

Scanivalve Connectors & Tubing

- Over 3000 Standard Parts
- Complete System Integration
- Made to Order Capability
- Exclusive UK Distributor

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☎ Switchboard: 01264 339 030
☎ Fax: 01264 339 040
✉ sales@calibrationdynamics.com
🌐 www.calibrationdynamics.com

Calibration Dynamics Limited
7 Regents Court, South Way
Walworth Business Park
Andover, Hampshire, SP10 5NX

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

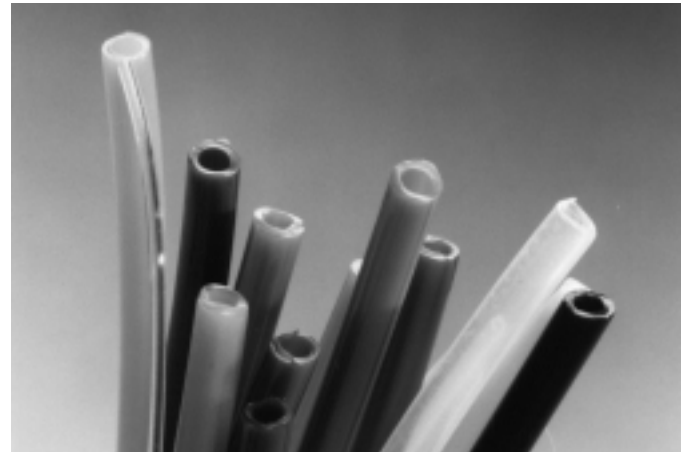
Available stock materials are urethane, nylon, vinyl and Teflon. Sizes are available to fit over .031 inch through .125 inch tubulations. Tubing is sold by the spool.

Nylon Tubing—Clear

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 with helical clamps and sealant. Size .063 nylon tubing has a recommended working pressure of 1000 psi at 21°C.

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 80 psi with helical clamps. Size .063 vinyl recommended working pressure is 90 psi at 21°C.

Urethane Tubing—Clear

Urethane's temperature rating is 95°C*. It is ideal for low pressure tests in wind tunnel models. The tubing is extremely flexible, resilient, and resists kinking. It fits snugly over our stainless steel tubulations and is resistant to weather, tearing, abrasion and impact. Size .063 urethane recommended working pressure is 90 psi at 21°C.

Tubing Material and Sizes Typically Stocked

| For use on: | Vinyl | Nylon 6/6 (Clear) | Urethane | Teflon (PTFE) |
|---|-----------------|----------------------------------|------------------|-----------------|
| .031 Inch (0.79mm) O.D. SS tubulation No Bulge | | | URTH-031 (ID) | |
| .040 Inch (1.02mm) O.D. SS tubulation | VINL-040 (ID) | | URTH-040 (ID) | |
| .063 Inch (1.59mm) O.D. SS tubulation | VINL-063 (ID) | NYLN-063 (ID) | URTH-063 (ID) | TFLN-063 (ID) |
| .125 Inch (3.18mm) O.D. SS tubulation | VINL-125** (ID) | NYLN-125 (ID) NYLN-125HW (ID) | URTH-0125HW (ID) | TFLN-125** (ID) |

* Temperature ratings are at atmospheric pressure of 14.7 psia nominal.

O.D. = Outside Diameter

**Do not use this tubing for vacuum.

**Scanivalve Corp
Tubing Specifications**

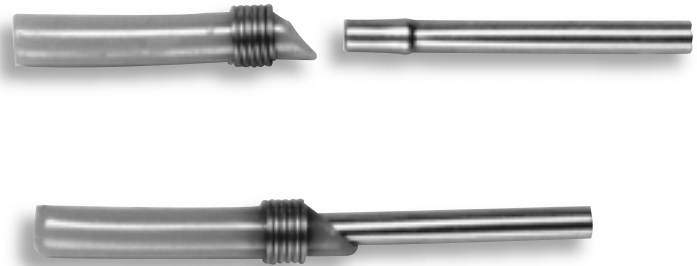
April 18, 2003

| Tubing Part Number | Bin Number | ID Inches (mm) | OD Inches (mm) | Recommended Working Pressure 21°C PSI (kPa) | Burst Pressure 21°C PSI (kPa) | Burst Pressure 40°C PSI(kPa) | Maximum Operating Temp °C (°F) | Burst Pressure at Maximum Operating Temperature PSI (kPa) | Minimum Bend Radius inches(mm) |
|--------------------|------------|----------------|----------------|--|----------------------------------|---------------------------------|-----------------------------------|--|-----------------------------------|
| NYLN-063 | Y-101 | .056 (1.42) | .086 (2.18) | 1000 (6895) | 1500 (10340) | 1000 (6895) | 110 (225) | 800 (5515) | 1.25 (31.75) |
| NYLN-125 | Y-102 | .118 (3.00) | .148 (3.76) | 600 (4135) | 800 (5515) | 650 (4480) | 110 (225) | 400 (2760) | 2.00 (50.8) |
| NYLN-125HW | Y-118 | .117 (2.97) | .187 (4.75) | 600 (4135) | 1000 (6895) | 750 (5170) | 100 (212) | 500 (3448) | 1.75 (44.45) |
| TFLN-063 | Y-115 | .054 (1.37) | .086 (2.18) | 500 (3450) | 700 (4825) | 575 (3965) | 260 (500) | 70 (480) | .75 (19.05) |
| TFLN-125 | Y-116 | .106 (2.69) | .138 (3.51) | 200 (1380) | 350 (2415) | 240 (1655) | 175 (350) | 50 (345) | 1.25 (31.75) |
| URTH-031 | Y-126 | .027 (.69) | .051 (1.30) | 125 (860) | 375 (2585) | 160 (1100) | 95 (200) | 70 (480) | .188 (4.78) |
| URTH-040 | Y-132 | .034 (.86) | .066 (1.68) | 125 (860) | 350 (2415) | 150 (1035) | 95 (200) | 70 (480) | .25 (6.35) |
| URTH-063 | Y-129 | .054 (1.37) | .086 (2.18) | 100 (690) | 250 (1725) | 150 (1035) | 95 (200) | 50 (345) | .25 (6.35) |
| URTH-125HW | Y-164 | .125 (3.18) | .187 (4.75) | 165 (1138) | 500 (3448) | 225 (1570) | 80 (176) | 90 (630) | .75 (19.05) |
| VINL-040 | Y-107 | .034 (.86) | .066 (1.68) | 100 (690) | 400 (2760) | 200 (1380) | 65 (150) | 35(240) | .32 (8.13) |
| VINL-063 | Y-105 | .054 (1.37) | .086 (2.18) | 90 (620) | 250 (1725) | 160 (1100) | 65 (150) | 35 (240) | .50 (12.7) |
| VINL-125 | Y-103 | .106 (2.69) | .138 (3.51) | 40 (275) | 175 (1205) | 50 (345) | 65 (150) | 35 (240) | .625 (15.88) |

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 fit over our vinyl and urethane tubing and hold the tubing on the tubulation. The stainless steel clamps fit over our nylon and Teflon tubing.



| To order, specify: | | Brass | | Stainless Steel |
|----------------------------------|----------------------|---|--------------------------|---|
| For use on S.S. Tubulation Sizes | Scanivalve Tubing | Brass Clamp for use on vinyl or urethane tubing, ScanCo # | Scanivalve Tubing | Stainless Steel Clamp for use on nylon or Teflon tubing, ScanCo # |
| .040 Inch (1.02mm) O.D. | VINL-040 URTH-040 | CLMP-040 | | N/A |
| .063 Inch (1.59mm) O.D. | VINL-063 URTH-063 | CLMP-063 | TFLN-063 NYLN-063 | NYCLMP-063 |
| .125 Inch (3.18mm) O.D. | VINL-125 | CLMP-125 | TFLN-125 NYLN-125 | NYCLMP-125 |
| .125 Inch (3.18mm) O.D. | _____ | _____ | URTH-125HW NYLN-125HW | NYCLMP-125HW |

Sealant for Use With Above

The use of sealant with the nylon tubing clamps is recommended for pressures above 250 psi. Brush the sealant lightly over the bulge of the steel tubulation. Then drive the nylon tubing with its clamp onto the tubulation. To order, specify ScanCo #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 insure leak tight connections. Scanivalve's plastic tubing and the brass or stainless steel helical tubing clamps fit over this bulge. The customer should epoxy the nonbulged end into his equipment. The tubulations are manufactured to lengths between .55 inches and 8.0 inches.



| To order, specify: | | |
|---------------------------|--|-------------------------|
| ScanCo # | Standard Lengths-Inches | Tubulation Size |
| TUBN-040 (Specify Length) | .55, .75, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0 | .040 Inch (1.02mm) O.D. |
| TUBN-063 (Specify Length) | .56, .75, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0 | .063 Inch (1.59mm) O.D. |
| TUBN-125 (Specify Length) | .75, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0 | .125 Inch (3.18mm) O.D. |

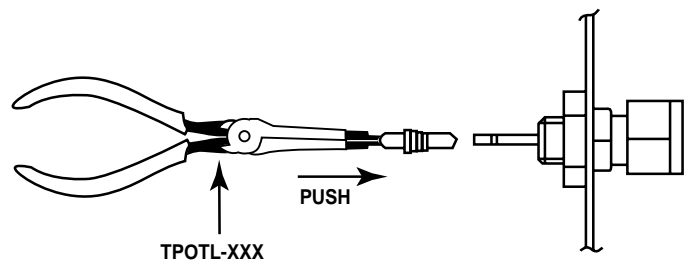
Tubing Push-on Tool

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.



| To order, specify ScanCo # | |
|----------------------------|--|
| TPOTL-040 | |
| TPOTL-063 | |
| TPOTL-125 | |
| TPOTL-125 HW | |

Model Tubulation Size



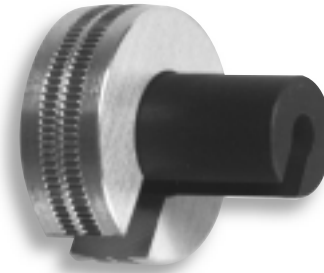
SPECIALIZED TUBING TOOLS

NYCLAMP 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 so as 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 up over the bulge. Continue turning the knurled handle on the screw-back tool until the clamp is located 80% over the bulge (on the side of the bulge away from the tubing).

The versatile long-handled version, Model NCSBTL3, is especially suited for installing the NYCLMPs in hard to reach locations.

The short-handled version, Model NCSBTL2, is used on Scanivalve's tubulations and panels where space is available.



Model NCSBTL2-063

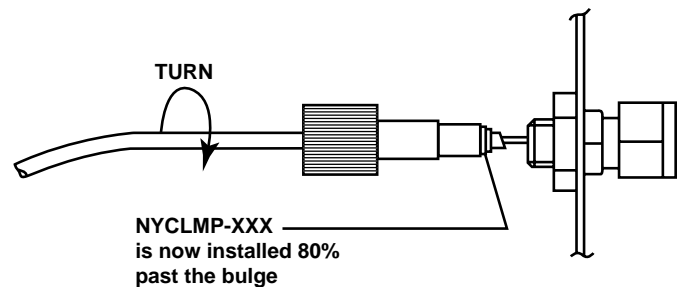
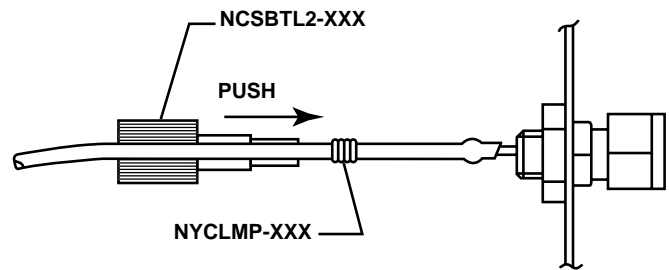


Model NCSBTL3-063

| To order, specify ScanCo # | |
|----------------------------|---------------|
| | NCSBTL2-063 |
| | NCSBTL2-125 |
| | NCSBTL2-125HW |
| | 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

These are useful to connect small diameter plastic tubing with larger 1/8 inch and 1/4 inch piping.

To order, specify:

| Item | ScanCo # |
|-----------------------------------|------------------|
| 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 |

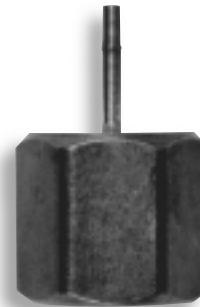
Tube Connector Thread Size 1/8 or 1/4 Pipe-Thread MPT-Male Tubulation Size Design Reducer
 FPT-Female

Tube Adaptors for X-Lok Compression Fittings—750 psi

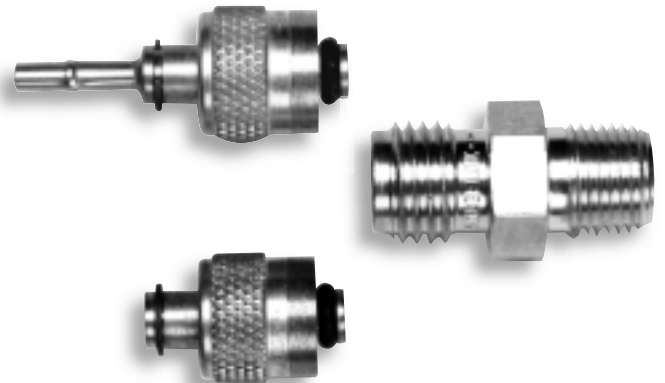
Scanivalve has designed easy-to-use tube adaptors that fit X-Lok fittings. The main function of these tube adaptors is to reduce 1/8 or 1/4 inch input fittings to 1/16 or 1/8 inch tubulations.

| Scanco # | Description | ScanCo # | Description |
|----------|-----------------------------------|----------|-----------------------------------|
| 5365-3 | X-Lok 1/4 inch to .125 tubulation | 5365-1 | Cap for X-Lok 1/4 inch fittings |
| 5365-4 | X-Lok 1/4 inch to .083 tubulation | 5375-1 | X-Lok 1/8 inch to .063 tubulation |
| 5365-2 | X-Lok 1/4 inch to .063 tubulation | 5375-2 | Cap for X-Lok 1/8 inch fittings |

Small O.D. tubulations available are: .031 (no bulge), .040, .063 and .125 inches.



These fittings can be hand-tightened to form a leak-tight O-ring seal. No tools are required! The tube adaptor material is brass, with 1/16 or 1/8 inch brass tubulations.



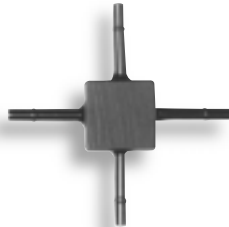
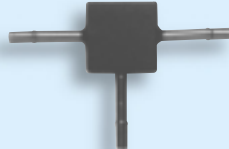



TUBE CONNECTORS

These are made by cementing stainless steel tubing into color-coded anodized aluminum blocks. The tube connectors are optionally available with brass body with soldered stainless steel tubulations when an extra safety factor is required to insure no leaks due to handling. All tubulations are bulged (except .031 and .250 sizes) for use with ScanCo helical tubing clamps.

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

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

To order, specify:

| Item | ScanCo # | 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 031-040 R (specify color) TC 031-063 R TC 031-125 R TC 040-063 R TC 040-125 R TC 063-125 R TC 063-250 R TC 187-125 R | "R" Reducer  |
| Tube Connector "P" Design | TC 040 P (specify color) TC 063 P TC 125 P | "P" Plug  |

Tube Connector Tubulation Size Design Specify Color

(2 sizes required for "R" reducer design)

PNEUMATIC CONNECTORS—SELECTION

Round Pneumatic Connector Selection Chart

| Basic Model | Connector Diameter Inches (mm) | No. of Tubes on Connector | Tubulation Diameter Inches (mm) | Page | Rating (psi)* |
|-------------|--------------------------------|---------------------------|--|---------|---------------|
| 19 M & F | .460 (11.7) | 19 | .040 (1.02) | 8 | 100 |
| 31 M & F | .560 (14.2) | 31 | .040 (1.02) | 8 | 100 |
| 55 M & F | .700 (17.8) | 55 | .040 (1.02) | 8 | 100 |
| 24 D | 1.250 (31.8) | 24 | .040 (1.02) | 9 | 300 |
| 48 D | 1.250 (31.8) | 48 | .040 (1.02) | 9 | 300 |
| 73ZOC | 1.250 (31.8) | 73 | .040 (1.02) | 10 | 500 |
| 31 M & F | .900 (22.9) | 31 | .063 (1.59) | 8 | 100 |
| 24 D | 1.250 (31.8) | 24 | .063 (1.59) | 9 | 300 |
| 48 D | 1.250 (31.8) | 48 | .063 (1.59) | 9 | 300 |
| 48ZOC | 1.375 (34.9) | 48 | .063 (1.59) | 10 | 500 |
| 55 M & F | 1.125 (28.6) | 55 | .063 (1.59) | 8 | 100 |
| 73ZOC | 1.250 (31.8) | 73 | .063 (1.59) | 10 | 500 |
| 24 C | 3.00 (76.2) ring | 24 | .125 (3.18) | 11 & 12 | 500 |
| 48 C | 3.00 (76.2) ring | 48 | .063 (1.59) | 11 & 12 | 500 |
| 64 C | 3.00 (76.2) ring | 64 | .063 (1.59) | 11 & 12 | 100** |
| 48 L | 3.00 (76.2) | 48 | .063 (1.59) Accepts Steel Tubing | 10 | 1500 |

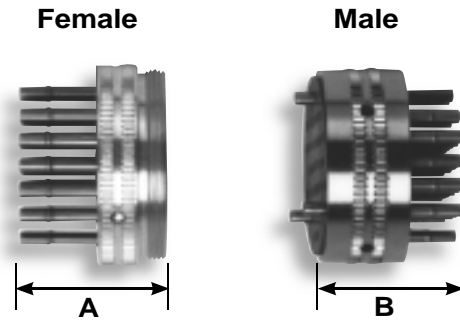
* Consult factory for higher pressure ratings or different tubulation diameters.

** Can be used to 500 psi with gasstage.

PNEUMATIC CONNECTORS—(100 PSI)

Quick Disconnect

The following 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 our round connectors. A flat gasket is shipped with the male connector for sealing. Blanking caps are available for some connector models as shown in the chart below.



| Dimensions Inches (mm) | | | | | |
|------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|-----------------------|
| Connector Diameter | Number of SS Tubulations | A | B | Distance Between Tube Centers | Tubulation Dimensions |
| .460 (11.7) | 19 | Pyramid* .600 (15.24) | Pyramid* .536 (13.61) | .074 (1.88) | .040 (1.02) O.D. |
| .560 (14.2) | 31 | .540 (13.72) | .485 (12.32) | .074 (1.88) | .040 (1.02) O.D. |
| .700 (17.8) | 55 | .540 (13.72) | .490 (12.45) | .074 (1.88) | .040 (1.02) O.D. |
| .900 (22.9) | 31 | .675 (17.15) | .650 (16.51) | .125 (3.18) | .063 (1.59) O.D. |
| 1.125 (28.6) | 55 | .690 (17.53) | .650 (16.51) | .125 (3.18) | .063 (1.59) O.D. |

* This connector has the steel tubulations stacked in a pyramid for easy access. All other connectors shown on this page have all tubes of equal length as shown in A & B photos above.

To order, specify:

| Number of SS Tubulations | Ordering Selection Guide | | | | |
|--------------------------|--------------------------|------------------|-----------------------|---------------|---------|
| | Male Connector | Female Connector | ScanCo # Spare Gasket | Caps For Male | Female |
| 19 | 19M460 | 19F460 | 50059-1 | N/A | 50013-3 |
| 31 | 31M560 | 31F560 | 50159-1 | N/A | 50013-2 |
| 55 | 55M700 | 55F700 | 50007-1 | 50024 | 50013-1 |
| 31 | 31M900 | 31F900 | 50139-2 | N/A | N/A |
| 55 | 55M1.125 | 55F1.125 | 50129-1 | 50110-1 | N/A |

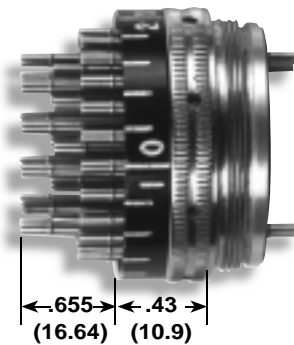
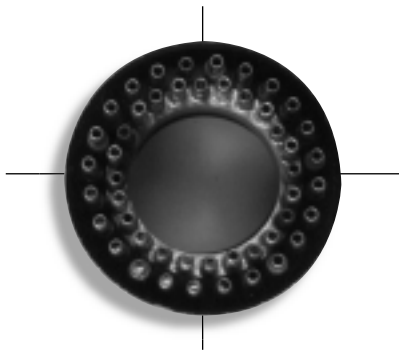
PNEUMATIC CONNECTORS—MODEL D (300 PSI)

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.

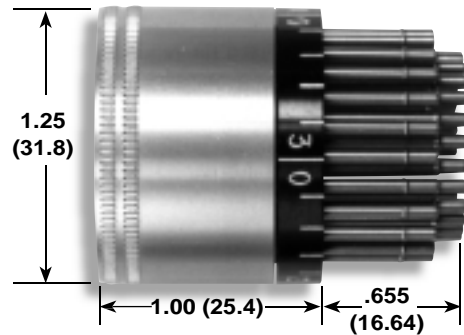
To Order, Specify:

| | | | | | | |
|-------------------|-----------|---------|----------------------|-------------------|---|-----------------|
| ScanCo # | 48 | D | M | 1/2 | — | 063 |
| No. of Tubulation | 24 and 48 | Model D | Connector Type: | Tubulation Length | | Tubulation Size |
| | | | M - Male | | | .040 |
| | | | F - Female | | | .063 |
| | | | FB - Female Bulkhead | | | |

Spare Gasket for D Connector, ScanCo #6088



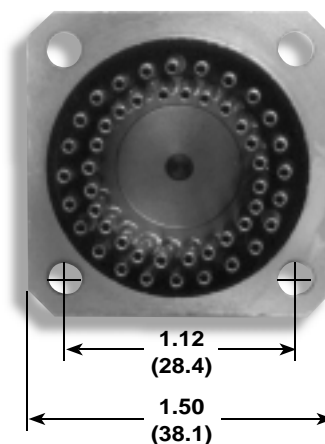
48D8M-1/2
(Male)



48DF-1/2
(Female)



48DFB-1/2
(Female Bulkhead)

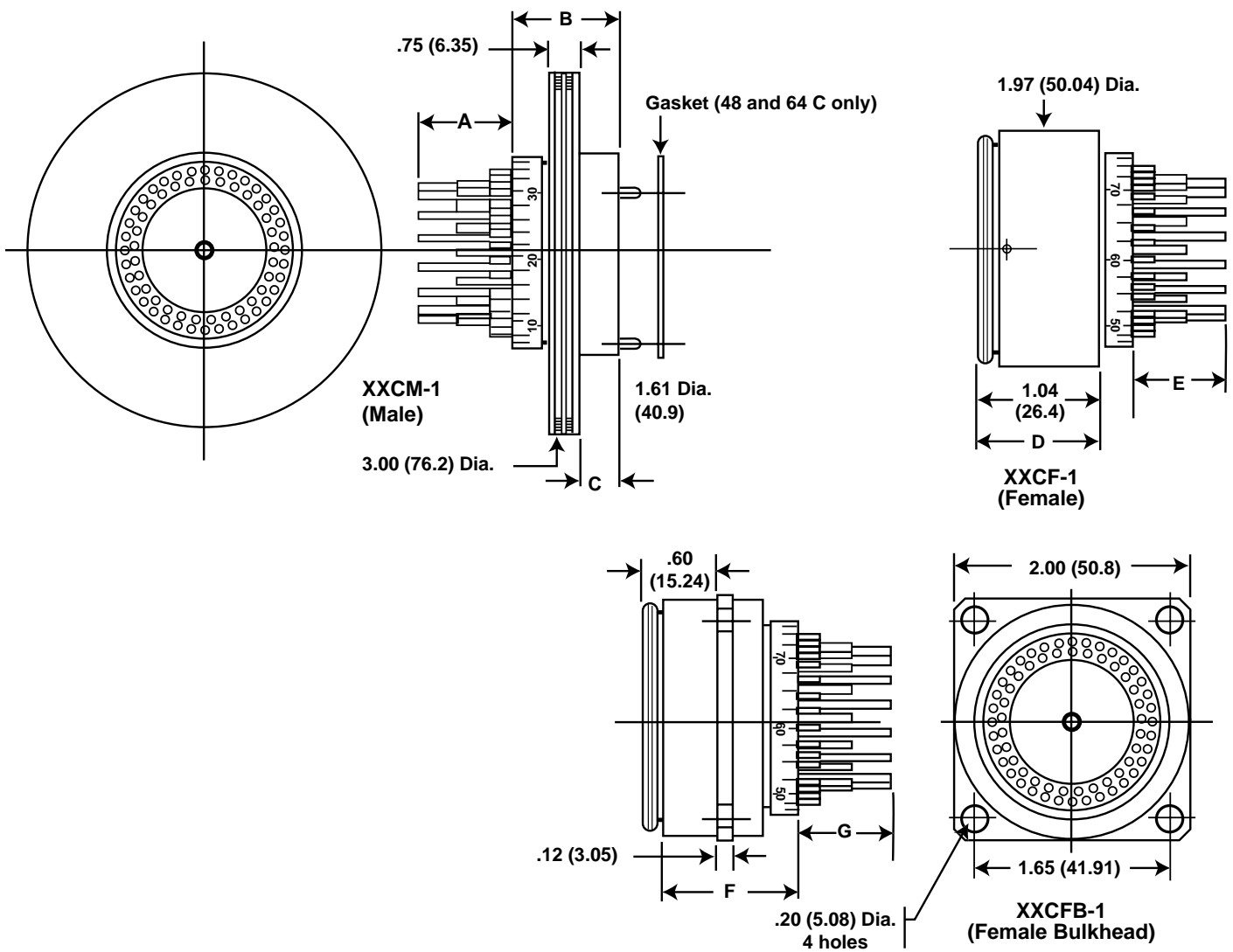
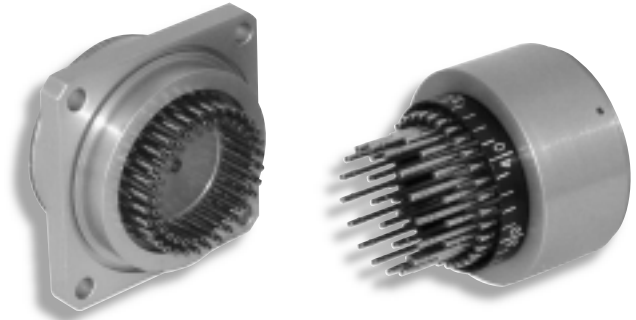


.16 (4.06)
Diameter Holes
4 each

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), becomes ideal quick disconnects at pressure break points. The stainless steel tubulations are designed to fit either ScanCo .063 or .125 tubing. The CM connectors are also used with Scanivalve modules.



PNEUMATIC CONNECTORS—24C, 48C, & 64C (500 PSI)

Dimensions Inches (mm)

24C Pneumatic Connectors

To Order, Specify:

| ScanCo # | Description | No. of Tubulations | Connector Pressure Rating | Tubulation Size | A | B | C | D | E | F | G | Cap |
|----------------|-----------------------------------|--------------------|---------------------------|---------------------|---------------|---------------|---------------|----------------|---------------|----------------|---------------|-----|
| 24CM-1 | Male Connector for 24C Scanivalve | 24 | 500 psi | .125 O.D. (3.18) | .86 (21.8) | .90 (22.9) | .36 (9.14) | | | | | N/A |
| 24CF-1 | Female Connector | | | | | | | 1.30 (33.0) | .86 (21.8) | | | |
| 24CFB-1 | Female Bulkhead Connector | | | | | | | | | 1.30 (33.0) | .86 (21.8) | |
| 65013-1 | Spare Cage Gasket w/o O Rings | | | | | | | | | | | |
| 0995-070X-150B | Spare O Rings | | | | | | | | | | | |

48C Pneumatic Connectors

| | | | | | | | | | | | | |
|---------|-----------------------------------|----|---------|---------------------|---------------|---------------|----------------|---------------|--|----------------|---------------|--------|
| 48CM-1 | Male Connector for 48C Scanivalve | 48 | 500 psi | .063 O.D. (1.59) | .82 (20.8) | .82 (20.8) | .34 (8.64) | | | | | N/A |
| 48CF-1 | Female Connector | | | | | | 1.26 (32.0) | .86 (21.8) | | | | 6386-1 |
| 48CFB-1 | Female Bulkhead Connector | | | | | | | | | 1.13 (28.7) | .86 (21.8) | 6386-1 |
| 6025 | Spare Gasket | | | | | | | | | | | |
| 5180 | Optional Gascage | | | | | | | | | | | |

64C Pneumatic Connectors

| | | | | | | | | | | | | |
|---------|-----------------------------------|----|----------|---------------------|---------------|---------------|----------------|---------------|--|----------------|---------------|-----|
| 64CM-1 | Male Connector for 64C Scanivalve | 64 | 100 psi* | .063 O.D. (1.59) | .77 (19.6) | .87 (22.1) | .34 (8.64) | | | | | N/A |
| 64CF-1 | Female Connector | | | | | | 1.30 (33.0) | .78 (19.8) | | | | |
| 64CFB-1 | Female Bulkhead Connector | | | | | | | | | 1.17 (29.2) | .78 (19.8) | |
| 6305 | Spare Gasket | | | | | | | | | | | |
| 6015 | Optional Gascage | | | | | | | | | | | |

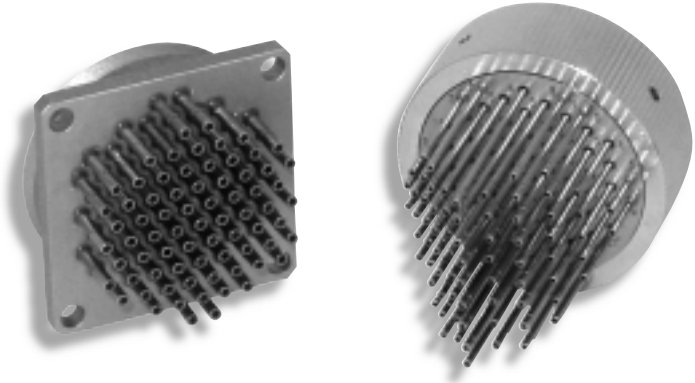
*Can be used up to 500 psi with gascage. Please consult factory.

PNEUMATIC CONNECTORS—ZOC (500 PSI)

This high density 48 or 73 channel connector is a very popular bulkhead quick disconnect containing 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 can be used up to 500 psi.

To Order, Specify:

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



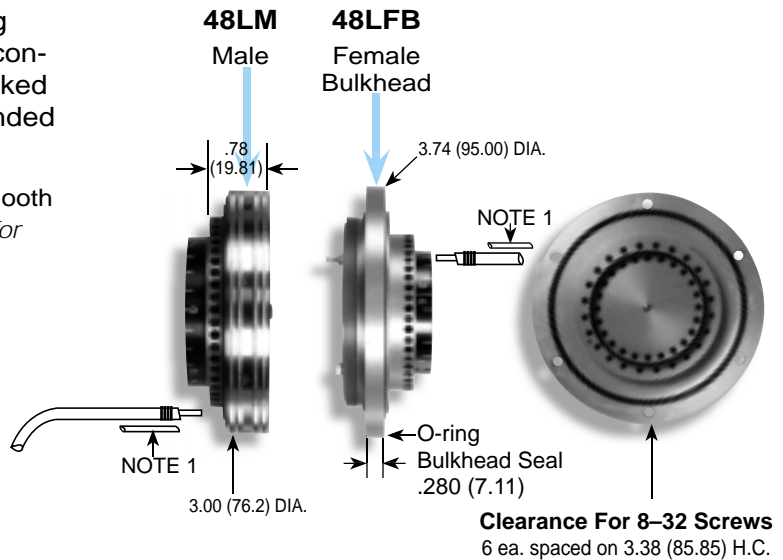
HIGH PRESSURE "L" CONNECTORS (1500 PSI)

The 48L series connectors are ideal for making quick disconnects at test break points. These connectors accept stainless steel tubing that is locked via a set screw. This tubing must be smooth ended .063 stainless steel tubing.

Note 1: Tubing supplied by customer must have smooth end, or order ScanCo #TUBN-063-X. (See page 3 for reference.)

To Order, Specify:

| | | | |
|----------|-----------------------|-------|-----------------------|
| ScanCo # | 48 | L | M |
| | | | |
| | No. of Tubulations | Model | Connector Type |
| | | | M-Male |
| | | | FB-Female Bulkhead |



Caps are available to blank off half of the connector. To cap off 48LM connector, order no. 6245-1. To cap off 48LFB connector, order no. 6244-1.

RECTANGULAR CONNECTORS—RC2 (300 PSI)

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

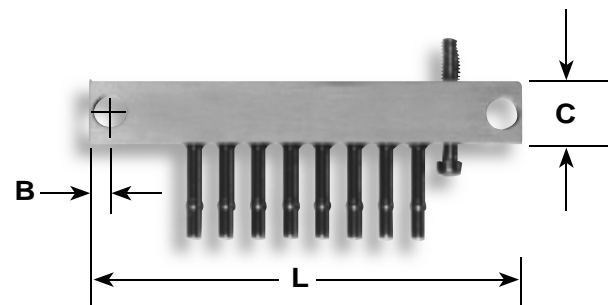
Available colors: CLR (clear), GLD (gold), BLK (black), RED, GRN (green), and BLU (blue). If color is not specified, Scanivalve will supply a color based on availability.

Tubulation sizes available: .031 (no bulge), .040, .063 and .125 inches O.D.

| No. of Tubes | Connector Length L 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) |



Caged O-Ring Type Gasket



| Dimensions Inches (mm) | | | | | | |
|------------------------|-----------|--------|--------|-----------------|----------|----------------------|
| Tube Diameter* | Thickness | B | C | E Hole Diameter | F | G |
| .031 | | | | | | |
| .040 | .125 | .087 | .250 | .125 | 20300-02 | No. 4 Mounting Screw |
| .063 | (3.18) | (2.21) | (6.35) | (3.18) | | |
| .125 | .250 | .160 | .325 | .140 | 20300-06 | No. 6 Mounting Screw |
| | (6.35) | (4.06) | (9.53) | (3.56) | | |

* Each half of the connector can have a different tubulation size.

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

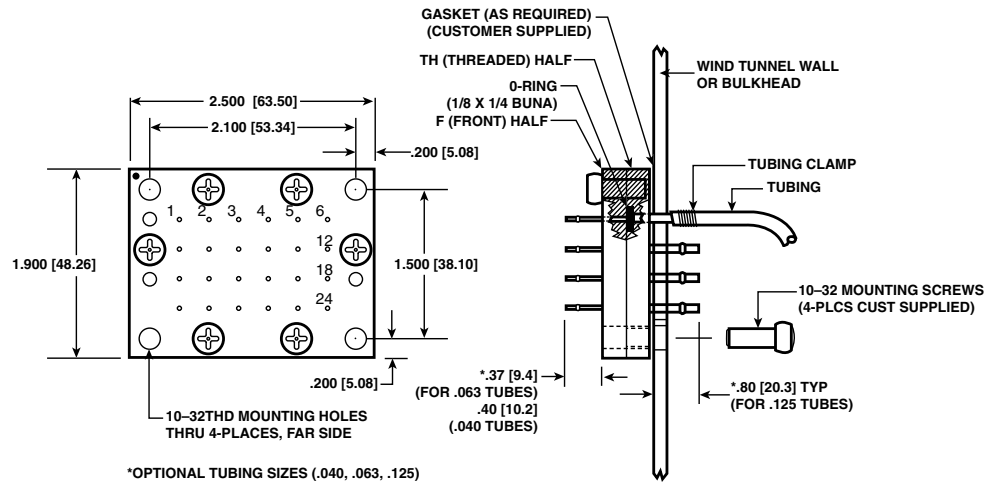
ScanCo # RC2/ - 040 - 10 (GLD)
 Model Type _____ Color
 Tubulation _____
 Diameter _____
 .031, .040, .063 or .125

No. of Tubes
(8-10-12)

ScanCo # RC2/040 - G - 10
 Model Type _____
 Tubulation _____
 Diameter _____
 Gasket _____
 No. of Tubes _____

RECTANGULAR PATTERN CONNECTOR (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 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 x 48.3) |
| 2 | 5 | 10 | 1.3 x 2.2 | (33 x 55.9) |
| 3 | 4 | 12 | 1.6 x 1.9 | (40.6 x 48.3) |
| 4 | 4 | 16 | 1.9 x 1.9 | (48.3 x 48.3) |
| 3 | 6 | 18 | 1.6 x 2.5 | (40.6 x 63.5) |
| 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) |
| 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) |
| 5 | 10 | 50 | 2.2 x 3.7 | (55.9 x 94) |
| 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) |
| 8 | 8 | 64 | 3.1 x 3.1 | (78.7 x 78.7) |
| 8 | 12 | 96 | 3.1 x 4.3 | (78.7 x 109.2) |
| 10 | 10 | 100 | 3.7 x 3.7 | (94 x 94) |
| 10 | 12 | 120 | 3.7 x 4.3 | (94 x 109.2) |
| 12 | 12 | 144 | 4.3 x 4.3 | (109.2 x 109.2) |

To order, specify:

ScanCo # **RPC - 4R X 6T / 063F - 125TH**

Rectangular pattern connector

No. of rows of tubes

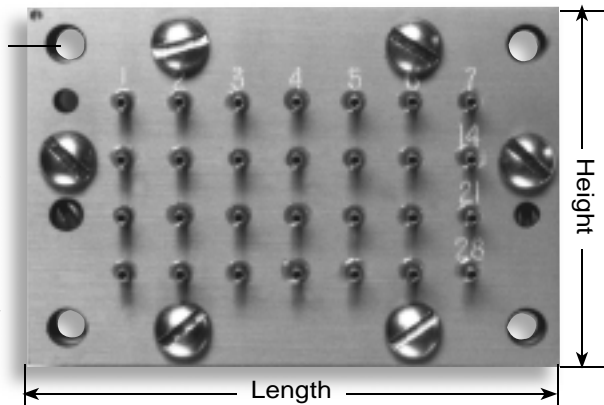
No. of columns of tubes

Tubulation dia.

Tubulation dia.

10-32 Thd mounting holes 4 ea.

The connector shown is a Model RPC-4RX7T/063F-063TH



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

PNEUMATIC MANIFOLDS (500 PSI)

M—Single Manifold

(12 tube maximum)



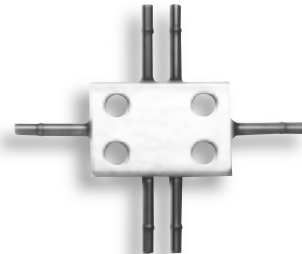
3 tube shown



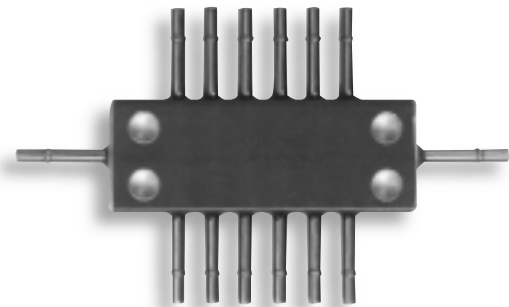
10 tube shown

2M—Double Manifold

(24 tube maximum)



4 tube shown



12 tube shown

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 manifolds are customer specified up to maximum of 12 tubes (single) and 24 tubes (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, Scanivalve will supply a color based on availability.

| To order, specify ScanCo #: | | | |
|-----------------------------|--|-----------------------|--|
| 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 | Tubulation Quantity <i>(End tubes excluded)</i> <i>(minimum of 3—maximum of 12)</i> | Manifold M=Single | Specify Color |
| Tube Connector | Tubulation Size | Tubulation Quantity <i>(End tubes excluded)</i> <i>(minimum of 4—maximum of 24)</i> | Manifold 2M=Double | 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 “hook-ups” similar to the use of electrical clip leads. They can be used with random lengths of stainless tubing (ends must be chamfered). Model QC063-2 quick coupler will operate up to 1000 psi.

Use:

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

Quick Coupler Designs

Model-QC-XXX-2

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

Model-QC-XXX-TH

The Model-TH quick coupler design incorporates a collet at one end and a threaded nose at the other end.

Model-QC-XXX-TUBNXXX

The Model-TUBN quick coupler design incorporates a collet at one end and a 1/16 or 1/8 inch tubulation on the other end.

ScanCo No. TUBN-XXX-X

See Bulged Stainless Steel Tubulations page 3.

Caution: Do not push bulged end of tubulation into coupler.

A chamfered edge is required.

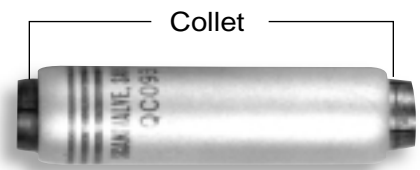


Disconnected

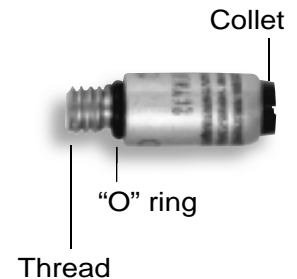


Connected

Model -2



Model -TH



Model - TUBN063
- TUBN125



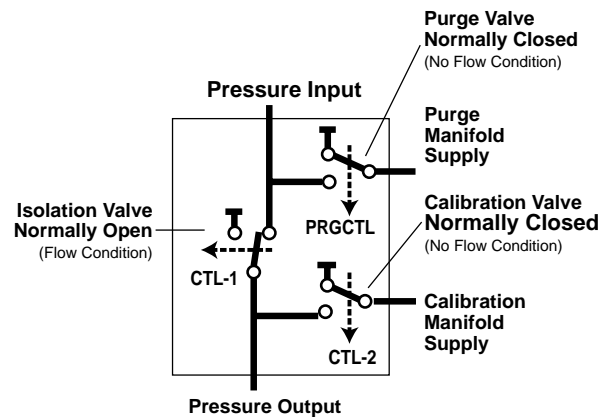
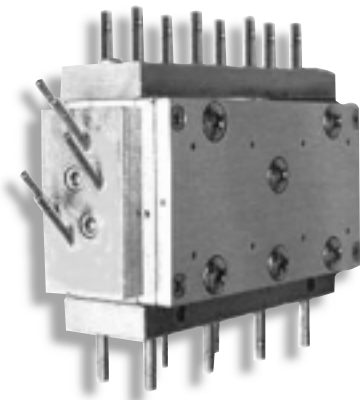
QUICK COUPLER ORDERING INFORMATION

| | | For Use on Tubing | |
|-------------------|------------|-------------------|---------------|
| To Order, Specify | ScanCo # | .063 O.D. | .125 O.D. |
| 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

This 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. In the calibra-

tion mode, input pressures are isolated, allowing the user to apply a calibration to the 8 sensors that are manifolded together. The purge mode allows a purge pressure to be input and purge condensation or contamination back through the input tubes. Order Information: ZOCCAL/ADPT



Dimension Inches (mm)

