MXT™-Union Connector Kits for Fused Silica Columns
- Low-dead-volume, leak-tight connection.
- Reusable.
- Siltek® treatment ensures maximum inertness.
- Ideal for connecting a guard column or transfer line to an analytical column.
- Use to oven temperatures of 350°C.
- Available in union and "Y" configurations.

These MXT™ connectors can be used with fused silica tubing, because of a Valcon polyimide $1/32$-inch one-piece fused silica adaptor. This unique graphite-reinforced composite allows a capillary column to slide into the adaptor and be locked in place simply by loosening and tightening the fitting.

please note

Use for fused silica-to-fused silica or fused silica-to-metal connections.

SILTEK®
treated

MXT™-Union Connector Kits for Fused Silica Columns
Each kit contains the MXT™ union, two $1/32$-inch nuts and two one-piece fused silica adaptors.

Description	qty.	cat.#
For 0.25mm ID Fused Silica Columns	kit	21386
For 0.32mm ID Fused Silica Columns	kit	21385
For 0.53mm ID Fused Silica Columns	kit	21384

MXT™ "Y"-Union Connector Kits for Fused Silica Columns
Each kit contains the MXT™ union, three $1/32$-inch nuts and three one-piece fused silica adaptors.

Description	qty.	cat.#
For 0.25mm ID Fused Silica Columns	kit	21389
For 0.32mm ID Fused Silica Columns	kit	21388
For 0.53mm ID Fused Silica Columns	kit	21387

$1/32$-Inch Replacement Nut

Description	qty.	cat.#
$1/32$" Replacement Nut	5-pk.	20389

Valco® Connectors—One-Piece Valcon Polyimide Adaptor Ferrule for Fused Silica
Restek recommends a one-piece adaptor ferrule for use in fittings in which the ferrule will not be removed. Connections are made or broken by tightening or loosening the fitting nut and sliding the tubing in or out. Fused silica adaptor ferrules are Valcon polyimide, a unique graphite-reinforced composite, specially prepared to maximize mechanical stability at temperatures to 350°C. The determining factor for selecting adaptor ferrule size is the fused silica tubing OD.

Ferrule

$1/32$-Inch Adaptor Ferrule (Valcon Polyimide)

Tubing OD	Tubing ID	Valco® #	qty.	cat.#
0.25 ≤ 0.40mm	0.25mm	FS.4-5	5-pk.	20137
0.40 ≤ 0.50mm	0.32mm	FS.5-5	5-pk.	20140
0.50 ≤ 0.80mm	0.53mm	ZF.5V-5	5-pk.	20141
$1/32$" Replacement Nut			5-pk.	20389

Replacement Nut

Ferrule Removal Kit
The tapered tools in this kit have teeth designed to grip and remove fused silica adaptor ferrules that have become stuck in the fitting detail. Each kit has two tools: one for removing $1/32$-inch adaptor ferrules and one for removing $1/16$-inch adaptor ferrules.

Description	Valco® #	qty.	cat.#
Ferrule Removal Kit	FRK1	kit	20146

MXT™ Connectors for Metal Tubing

please note

Use for metal-to-metal connections.

SILTEK®

treated

MXT™ Low-Dead-Volume Connector Kits for Metal Columns

These low-dead-volume connectors are Siltek® treated and are deactivated to make them inert to active compounds, just like our MXT® columns. They can be used at temperatures up to 400°C without degrading the deactivated layer. Purchase the appropriate ferrules for connecting 0.28 or 0.53mm ID tubing.

MXT™ Low-Dead-Volume Connector Kits for Metal Columns

• Connect a guard column/transfer line to an MXT® stainless steel column.
• Low thermal mass tracks rapid oven temperature programming.

Each kit contains the MXT™ union, two $^1/_{32}$-inch ferrules and nuts.

Description	qty.	cat.#
For 0.28mm ID MXT® Columns	kit	20397
For 0.53mm ID MXT® Columns	kit	20394

MXT™ Low-Dead-Volume "Y" Connector Kits for Metal Columns

• Connect two MXT® columns to one inlet or one MXT® column to two detectors.

Each kit contains the MXT™ union, three $^1/_{32}$-inch ferrules and nuts.

Description	qty.	cat.#
For 0.28mm ID MXT® Columns	kit	20396
For 0.53mm ID MXT® Columns	kit	20395

$^1/_{32}$-Inch Stainless Steel Replacement Ferrules for MXT™ Connectors

Ferrule ID	Fits Column ID	qty.	cat.#
0.59mm	0.28mm	10-pk.	20398
0.79mm	0.53mm	10-pk.	20399

$^1/_{32}$-Inch Replacement Nut

Description	qty.	cat.#
$^1/_{32}$" Replacement Nut	5-pk.	20389

$^1/_4$-Inch–$^3/_{16}$-Inch Open-End Wrenches

High-quality miniature wrenches to use with MXT™ low-dead-volume connectors.

Description	qty.	cat.#
$^1/_4$"–$^3/_{16}$" Open-End Wrenches	2-piece set	20388

tech tip

Coupling GC Columns

An MXT™ connector is a good alternative to a glass connector when coupling GC columns. This connector is constructed from stainless steel and will not break; it uses ferrules for sealing. The design ensures low dead volume, and Siltek® treatment ensures the MXT™ connector is inert—both features help minimize peak tailing. MXT™ connectors can be used to connect metal-to-metal, metal-to-fused silica, or fused silica-to-fused silica tubing. When connecting metal tubing, use $^1/_{32}$-inch stainless steel ferrules (listed above); for fused silica tubing, use Valcon polyimide adaptor ferrules (see page 225).

Zero-Dead-Volume Valco® Internal Union

Ends of tubing seat squarely at bottoms of fitting details. 300 series stainless steel. For $^1/_{16}$" OD tubing. Stainless steel ferrules included.

Description	Union Bore	Valco® #	qty.	cat.#
Internal Union	0.15mm	ZU1XC	ea.	20147
Internal Union	0.25mm	ZU1C	ea.	20148
Internal Union	0.75mm	ZU1	ea.	20149
Internal Union	$^1/_{16}$"	ZU1T	ea.	20150

also **available**

Treated Fittings!
See pages 392-393 for our Siltek®/Sulfinert® treated and Silcosteel®-CR treated fittings.

Zero-Dead-Volume Valco® Internal Reducing Union

Connect two sizes of tubing, using zero-dead-volume fittings on each end. For $^1/_8$" to $^1/_{16}$" OD tubing. Stainless steel ferrules included.

Description	Union Bore	Valco® #	qty.	cat.#
Internal Reducing Union	0.25mm	ZRU21C	ea.	20151
Internal Reducing Union	0.75mm	ZRU21	ea.	20152
Internal Reducing Union	$^1/_{16}$"	ZRU21T	ea.	20153

Zero-Dead-Volume Valco® Internal Tee

Connect three lines. 300 series stainless steel; stainless steel ferrules included. For $^1/_{16}$" OD tubing.

Description	Union Bore	Valco® #	qty.	cat.#
Internal Tee	0.25mm	ZT1C	ea.	20154
Internal Tee	0.75mm	ZT1	ea.	20155

Zero-Dead-Volume Valco® Internal Cross

Connect four lines. 300 series stainless steel; stainless steel ferrules included. For $^1/_{16}$" OD tubing.

Description	Union Bore	Valco® #	qty.	cat.#
Internal Cross	0.25mm	ZX1C	ea.	20156
Internal Cross	0.75mm	ZX1	ea.	20157

Male Pipe to Valco® Internal Adapter

Makes a minimum volume connection from a female pipe fitting on a pressure gauge or regulator to a Valco® zero-dead-volume fitting. 300 series stainless steel; stainless steel ferrules included.

Description	Fitting Size	Bore	Valco® #	qty.	cat.#
$^1/_8$" NPT Male Internal Adapter	$^1/_{16}$" ZDV	1.0mm	PZA21	ea.	20158
$^1/_4$" NPT Male Internal Adapter	$^1/_{16}$" ZDV	1.0mm	PZA41	ea.	20159

cat.# 20159

cat.# 20158

Nuts & Ferrules for Valco® Connectors

Description	Valco® #	qty.	cat.#
$^1/_{16}$" Stainless Steel Ferrules	ZF1-10	10-pk.	20286
$^1/_{16}$" Stainless Steel Nuts	ZN1-10	10-pk.	20287

cat.# 20286   cat.# 20287

$^1/_{16}$-Inch Valco® Adaptor Ferrules

Tubing OD	Tubing ID	Valco® #	Valcon Polyimide		Polyimide	
			qty.	cat.#	qty.	cat.#
0.25–0.4mm	0.1-0.25mm	FS1.4-5	5-pk.	20142	2-pk.	21015
0.4–0.5mm	0.32mm	FS1.5-5	5-pk.	20143	2-pk.	21016
0.5–0.8mm	0.53mm	FS1.8-5	5-pk.	20144	—	—
0.8mm ($^1/_{32}$")	—	FS1.9-5	5-pk.	20145	—	—

GC ACCESSORIES | COLUMN INSTALLATION