# **VALCO FITTINGS**

# **Tees and Crosses**

### Tees

Tees connect three lines. Standard material is 300 series stainless. Also available in Hastelloy C, gold plated stainless, and titanium.

Tubing OD	Bore	Prod No	Price
1/32"	0.25 mm 0.50 mm	ZT.5 ZT.5L	
1/16"	0.25 mm 0.50 mm	ZT1C ZT1M	
	0.75 mm 1.00 mm	ZT1 ZT1L	
1/8"	0.75 mm 2.00 mm	ZT2 ZT2L	
1/4"	1.00 mm 4.60 mm	ZT4 ZT4L	



Crosses connect four lines. Standard material is 300 series stainless. Also available in Hastelloy C, gold plated stainless, and titanium.

Tubing OD	Bore	Prod No	Price
1/32"	0.25 mm 0.50 mm	ZX.5 ZX.5L	
1/16"	0.25 mm 0.50 mm 0.75 mm 1.00 mm	ZX1C ZX1M ZX1 ZX1L	
1/8"	0.75 mm 2.00 mm	ZX2 ZX2L	
1/4"	1.00 mm 4.60 mm	ZX4 ZX4L	





MORE INFORMATION

PEEK tees.... pages 57, 64 PEEK crosses ......57, 64

#### SPECIAL METALS AND/OR SMALLER BORES

See microvolume connectors: 1/32" and 1/16" tees, crosses, Y's, and unions in various metals and polymers, with smaller bores.

#### Microvolume

connectors ....pp 22-23 High pressure PEEK connectors..63-66 Nanovolume connectors ......57-61

#### **TECH TIP**

To join tubes of different ODs, use the fitting sized for the largest tube along with IZR reducers for the smaller tubes.

IZR reducer..... page 34

0.25 mm	= .010"
0.50 mm	= .020"
0.75 mm	= .030"
1.0 mm	= .040"
1.5 mm	= .060"
2.0 mm	= .080"
4.6 mm	= .180"
6.0 mm	= .236"
6.4 mm	= .253"
7.0 mm	= .275"
10.0 mm	= .400"
27.0 mm	= 1.08"
1/32" =	0.8 mm
1/16" =	1.6 mm
1/8" =	3.2 mm
1/4" = 3/8" = 1/2" =	

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# **VALCO FITTINGS**

## Manifolds



# 1/16" Manifolds

1/16" manifolds connect 4 - 16 inlet lines to a single outlet, and are often used to connect the outlets from several columns to a single detector. The unique angled entry of our design reduces dispersion to a minimum. Available with 1.00 mm inlet/outlet bore. Standard materials are PEEK or 300 series stainless.

		Inlet bore	Outlet bore	Material	Prod No	Price
4 in	lets	0.25 mm 0.25 mm	0.75 mm 0.75 mm	Stainless steel PEEK	Z4M1 Z4M1PK	
6 in	lets	0.25 mm 0.25 mm	0.75 mm 0.75 mm	Stainless steel PEEK	Z6M1 Z6M1PK	
8 in	lets	0.25 mm 0.25 mm	0.75 mm 0.75 mm	Stainless steel PEEK	Z8M1 Z8M1PK	
10 i	nlets	0.25 mm 0.25 mm	0.75 mm 0.75 mm	Stainless steel PEEK	Z10M1 Z10M1PK	
12 i	nlets	0.25 mm 0.25 mm	0.75 mm 0.75 mm	Stainless steel PEEK	Z12M1 Z12M1PK	
14 i	nlets	0.25 mm 0.25 mm	0.75 mm 0.75 mm	Stainless steel PEEK	Z14M1 Z14M1PK	
16 i	nlets	0.40 mm	0.75 mm	PEEK	Z16M1PK	

## 1/8" Manifolds

1/8" manifolds connect 4 - 12 inlet lines to a single outlet, and are typically used in a gas distribution system to minimize the number of fitting connections. A manifold pipe fitting version is also available. (*See page 37*.) Standard material is 300 series stainless steel.

	Inlet bore	Outlet bore	Prod No	Price
4 inlets	2.00 mm	2.00 mm	Z4M2	
6 inlets	2.00 mm	2.00 mm	Z6M2	
8 inlets	2.00 mm	2.00 mm	Z8M2	
10 inlets	2.00 mm	2.00 mm	Z10M2	
12 inlets	2.00 mm	2.00 mm	Z12M2	



A manifold used with an SD flowpath multiposition valve allows HPLC column

**TECH TIP** 

SD UW valves.....pg 132

selection with a single valve. See page 139 for an illustration.

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