Ferrules

Valco metal ferrules cut a ring near the end of the tube, preventing tube release at high pressures without significantly deforming and restricting the tube interior. (However, if the hardness of the tubing is equal to or greater than that of the ferrule, deformation of the tube rather than a cut ring is likely.) Make up usually takes only about a 1/4 turn beyond the point where the ferrule first starts to grab the tubing. Polymeric ferrules seal by the increased friction from compression.

Valco zero volume ferrules may be used with all Valco fittings and with those of most other manufacturers. The maximum pressure limit is generally determined by the yield strength of the tubing. The maximum pressure for softer materials (such as brass and polymers) is lower, and depends on the tubing used. If in doubt about a particular combination, consult our technical staff.

For trace gas analysis, use gold-plated ferrules to achieve sealing with <10⁻⁹ cc/atm/sec leakage.



MORE INFORMATION

For more detailed information on metals, refer to the discussion on pages 254-255.

METALS AT A GLANCE Hastelloy C ®HC Resistant to pitting; Resists oxidizing atmo- spheres
Nickel NI Resistant to caustics, high temp halogens, and hydrogen halides
Stainless steel, Gold-platedGP More inert than stan- dard stainless
Stainless steel, Type 303 GC, gas lines, general purpose
Stainless steel, Type 316
TitaniumTI Outstanding resistance to most media except hydrofluoric acids
Brass

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" =	6.4 mm
3/8" =	9.5 mm
1 / 2 !!	127

Metal ferrules

	Prod No	Price	Prod No	Price	Prod No	Price
Package of 10:	O: Stainless, Type 303		Stainless, Type 316		Stainless, Gold-plated	
1/32" 1/16"	ZF.5-10 ZF1-10		ZF.5S6-10 ZF1S6-10	\$40 30	ZF.5GP-10 ZF1GP-10	
1/8" 1/4"	ZF2-10 -		ZF2S6-10 ZF4S6-10	22 19	ZF2GP-10 ZF4GP-10	
Sold individually:	Hastelloy C		Nickel		Titanium	
1/32" 1/16"	ZF.5HC ZF1HC		ZF.5NI ZF1NI	\$9 8	ZF.5TI ZF1TI	
1/8" 1/4"	ZF2HC ZF4HC		ZF2NI ZF4NI	8 9	ZF2TI ZF4TI	
Package of 10:	Brass					
1/32" 1/16"	ZF.5B-10 ZF1B-10					
1/8" 1/4"	ZF2B-10 ZF4B-10					

- Not available

Larger sizes and/or specific materials may be available on special order.

1/2" = 12.7 mm

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