Internal Reducers

NEW Internal reducers

for 360 µm tubing

Directly connect 360 µm tubing into a 1/32" Valco valve or fitting detail, providing a positive leak-free seal with zero dead volume. The same patented design as our larger internal reducers (below). Both versions have a stainless steel body.

naterial		
tainless FFK	C360IZR.5S6	
1		tainless C360IZR.5S6



Valco's patented internal reducer (IZR) allows smaller tubing to be used in valves with fitting details for larger tubing, forming a positive leak-free seal with zero dead volume. The small line from your system goes directly into the IZR and the sample goes directly into the valve, without the short pieces of connecting tubing required if a reducing union was used instead. (A reducing ferrule would also work, but makes a seal of less integrity.) Once the fitting is installed, only one wrench is required to remove and reinstall it.

A second version has a 2 micron stainless steel frit pressed into the end of the liner, adding filtering capability. However, we suggest using these only as a final or backup filter, with a standard filter (see page 52) as the primary filter. Because IZRs have a much smaller surface area than the standard filter, they tend to plug too often if used in a stand-alone capacity.

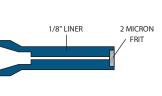


Patent No. 4,173,363.

		Without frit		With 2µ frit		
Tubing OD	Bore	Prod No	Price	Prod No	Price	
1/16" to 1/32"	0.25 mm 0.50 mm 1/32"	IZR1.5 IZR1.5L IZR1.5T		IZR1.5F IZR1.5LF –		
1/8" to 1/16"	0.25 mm 0.50 mm 1.00 mm 1/16"	IZR21C IZR21 IZR21L IZR21T		IZR21CF IZR21F IZR21LF		
1/4" to 1/16" 1/4" to 1/8" 1/4" to 1/8"	1.00 mm 1.00 mm 2.00 mm	IZR41 IZR42 IZR42L		IZR41F IZR42F IZR42LF		
1/16" TUBING	1/16" NUT		16" RULE	1/8" FERRULE	1/8" LINER	

Valco's unique internal reducer

(IZR21)



IZR liner with pressed-in frit

0.25 mm = .010" 0.50 mm = .020" 0.75 mm = .030" 1.0 mm = .040" $1.5 \, \text{mm} = .060$ " 2.0 mm = .080" 4.6 mm = .180" $6.0 \, \text{mm} = .236$ " 6.4 mm = .253" 7.0 mm = .275" 10.0 mm = .400" 27.0 mm = 1.08" $1/32" = 0.8 \, \text{mm}$ $1/16" = 1.6 \, \text{mm}$ 1/8" $= 3.2 \, \text{mm}$ 1/4" = 6.4 mm 3/8" = 9.5 mm1/2" = 12.7 mm

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External to Internal Adapters





External to internal adapters (injector/detector adapters)

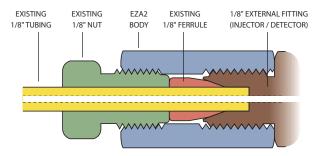
EZAs (external adapters) and EZRs (external reducers) adapt an external tee or union or the external type fittings common on injectors and detectors to Valco zero dead volume connections. Since EZAs are commonly used to connect an external fitting to an existing tube already made up with a Valco internal fitting, a nut and ferrule are not included.

Only one wrench is required to change tubes after the fitting is made up. While an external to internal union or reducing union plus a length of tubing can accomplish the same thing, these adapters do the trick with a single fitting.

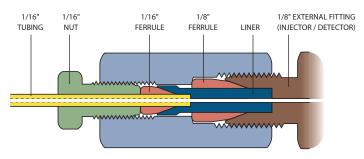
Standard material is 300 series stainless. The EZA does not include a nut or ferrule. The EZR includes a liner, one nut, and two ferrules.

Patent No. 4,173,363

Bore	Prod No	Price							
- -	EZA1 EZA2								
External reducers									
0.25 mm 1/32"	EZR1.5 EZR1.5T								
0.25 mm 0.50 mm 1/16"	EZR2.5 EZR21 EZR21T								
1.00 mm 1/16"	EZR41 EZR41T								
1.00 mm 1/8"	EZR42 EZR42T								
	0.25 mm 1/32" 0.25 mm 0.50 mm 1/16" 1.00 mm 1/16"	- EZA1 - EZA2 0.25 mm EZR1.5 1/32" EZR1.5T 0.25 mm EZR2.5 0.50 mm EZR21 1/16" EZR21T 1.00 mm EZR41 1/16" EZR41T 1.00 mm EZR42							



External to internal adapter (EZA2)



External to internal reducer (EZR21)

MORE INFORMATION

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