

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.

| Tubing OD | Nut/ferrule material | Prod No | Price |
|-----------------|----------------------|----------------|-------|
| 1/32" to 360 µm | Stainless | C360IZR.5S6 | |
| | PEEK | C360IZR.5S6PKG | |

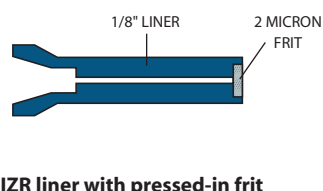
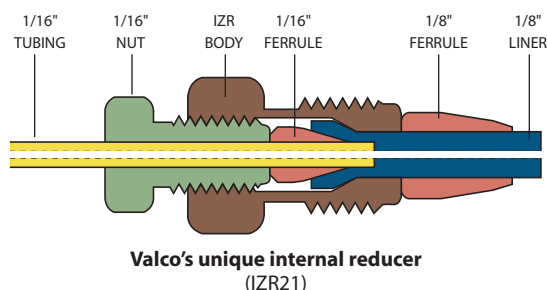
Internal reducers

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 IZR's 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.

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



| | |
|---------|-----------|
| 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" | = 12.7 mm |

