

Series 8300 High Purity Diaphragm Packless Valves



The multiple metal diaphragm design and Kel-F® seat are the key elements to the high purity success of these valves. They are available in a variety of styles and fitting configurations to meet virtually any application.

The 90° lever operated option provides the inherent benefits of a diaphragm packless valve with the quick open/close action and easily identifiable operational status of a lever actuated valve.

8300 Features

- Metal Diaphragm Packless Construction for Diffusion Resistant Operation.
- Capable of Passing a Helium Leak-Rate Test to 10⁻¹⁰ ccs
- Available in Multiple Turn and 90° Lever Operated Designs.

8300 Typical Applications

- The Series 8300 valves are recommended whenever the diffusion of atmospheric gases and moisture into a gas system is undesirable. They are a must in all ultra high purity gas transfer systems, particularly those used for gas chromatography carrier gases, samples, and calibration standards.

Materials of Construction

Series 8310

Body Brass
 Seat Kel-F®
 Diaphragm Stainless Steel

Series 8320

Body 316 Stainless Steel
 Seat Kel-F®
 Diaphragm Stainless Steel

8300 Specifications

Operating Pressure Brass: 3000 PSIG
 Stainless Steel: 3000 PSIG
 Temp. Operating Range . . . -65° F to 150° F
 Flow Coefficient Cv 0.13

How to Order:

Model Number*	Actuation	Connections	
		Inlet	Outlet
8310-P4FF	Multi-turn	1/4" NPT female	1/4" NPT female
8310L-P4MF	Multi-turn	1/4" NPT male long	1/4" NPT female
8310-P4MM	Multi-turn	1/4" NPT male	1/4" NPT male
8310-T4FF	Multi-turn	1/4" compression	1/4" compression
8320-P4FF	Multi-turn	1/4" NPT female	1/4" NPT female
8320L-P4MF	Multi-turn	1/4" NPT male long	1/4" NPT female
8320-P4MM	Multi-turn	1/4" NPT male	1/4" NPT male
8320-T4FF	Multi-turn	1/4" compression	1/4" compression
8321-P4FF	90° lever	1/4" NPT female	1/4" NPT female
8321L-P4MF	90° lever	1/4" NPT male long	1/4" NPT female
8321-P4MM	90° lever	1/4" NPT male	1/4" NPT male

*Other end connection configurations available on request.