

HIGH PURITY DIAPHRAGM PACKLESS VALVES

Series 8300

DESCRIPTION

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.

FEATURES

- Metal diaphragm packless construction for diffusion resistant operation.
- Capable of passing a helium leak-rate test to 10^{-10} cc/sec.
- Available in multiple turn and 90° lever operated designs.

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	Series 8320
Body	Brass	316 Stainless Steel
Seat	Kel-F®	Kel-F®
Diaphragm	Stainless Steel	Stainless Steel

SPECIFICATIONS

Operating pressure: brass - 3000 psig
stainless steel - 3000 psig

Operating temperature range: -65° to 150°F

Flow coefficient(C_v): 0.13

HOW TO ORDER

Model*	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
8311-P4FF	90° lever	1/4" NPT female	1/4" NPT female
8311L-P4MF	90° lever	1/4" NPT male long	1/4" NPT female
8311-P4MM	90° lever	1/4" NPT male	1/4" NPT male
8311-T4FF	90° lever	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
8321-T4FF	90° lever	1/4" compression	1/4" compression

*Other end connection configurations available on request.