FLOW, PRESSURE, AND ON/OFF CONTROL DEVICES

Micrometering Valves

Micrometering (needle) valves combine the ease of connection associated with Valco zero dead volume fittings with convenient bulkhead mounting. The very low internal volume and precision design make this valve ideal for use as a gas control valve in chromatographic systems.

The Viton® model is rated at 225°C, while a version with Kalrez™ seals is capable of continuous operation at 315°C. This allows a needle valve to be mounted directly within a heated oven, facilitating control of flow

switching in multidimensional systems while keeping the gases at oven temperature.

Valves are rated for maximum of 1000 psi gas. They are individually tested on a mass spectrometer leak detector to a helium leak rate specification of < 1 x 10⁸ atm cc/sec.

An unlubricated version with a specially polished seat was designed to be used with our pulsed discharge detectors, and should be used upstream of any ultrapure gas system. There is also a 1/16" tube version.

1/16" micrometering valves

with Valco fittings

Seal	Lubrication	Prod No	
Standard: 2–225 m	l/min@ 15 psi N ₂ inlet		
Viton Viton Kalrez	Lubricated Non-lubricated Non-lubricated	ZBNV1 ZBNV1-D ZBNV1-KZ	→ INLE
Viton Viton Viton Kalrez	ml/min@ 15 psi N ₂ inlet Lubricated Non-lubricated Non-lubricated	ZBNV1F ZBNV1F-D ZBNV1F-KZ	OUTLET
Low flow: 2–90 ml/r	min@ 40 psi N ₂ inlet		
Viton Viton Kalrez	Lubricated Non-lubricated Non-lubricated	ZBNV1LF ZBNV1LF-D ZBNV1LF-KZ	
1/16" micrometering valves			with 18" tubes
Seal	Lubrication	Prod No	
Standard: 2–225 m	l/min@ 15 psi N₂ inlet		
Viton Viton Kalrez	Lubricated Non-lubricated Non-lubricated	BNV1 BNV1-D BNV1-KZ	
Low flow: 2–90 ml/r	min@ 40 psi N ₂ inlet		
Viton Viton Kalrez	Lubricated Non-lubricated Non-lubricated	BNV1LF BNV1LF-D BNV1LF-KZ	

CHROMalytic TECHnology Pty Ltd AUSTRALIAN Distributors e-mail: sales@chromtech.net.au Tel: 03 9762 2034