Ultimate control is at your fingertips with the MPV-10K precision micro-metering valve.

The MPV-10K, a component of our pressure calibration standards, is also available as an independent, fine micro-metering valve with positive shut off. This exclusive device incorporates all stainless steel construction for long lasting performance.

The versatile MPV-10K combines sophisticated performance with easy-to-use features. Adjustable stop with soft seat prevents over-tightening. Each valve is customized with O-rings constructed from one of four materials for specific operation. Fingertip adjustment up to 10,000 psi provides high-accuracy metering in a variety of gas and fluid applications.

From process plant instrumentation to semiconductor production, natural gas systems to oxygen service, the MPV-10K is the ideal choice for precision micro-metering.

### Applications
- Gas and fluid applications
- High purity systems
- Medical and Bio-chemical gas analysis
- Natural gas systems
- Semi-conductor production
- Pollution analysis instrumentation
- Process plant instrumentation
- Solvent systems
- Chromatography
- Mass spectroscopy
- Research laboratory sampling
- Oxygen service
- Machine cutting tools

### Standard Features
- Fine micro-metering valve with positive shut off
- Adjustable stop, soft seat. No over tightening
- Stainless steel
- Fingertip adjust - even at 10,000 psi
- Viton O-rings standard; other materials available by request
- Valve can be panel or bracket mounted

### Options/Accessories
- 68859........Additional adjustment and maintenance manual
- 55277........Replacement Viton O-ring kit

Consult factory for additional O-ring materials:
- Buna-N
- Ethylene-propylene
- Silicone
- Neoprene
Specifications

MPV-10K

Pressure Range:
Vacuum to 10,000 psi

Proof Pressure:
15,000 psi

Orifice Size:
0.032

Cv Factor:
0.007

Mechanical Rotation:
10 turns, nominal

Torque:
Finger tip adjust

Volume:
0.5 cubic inch, nominal

Sensitivity:
0.0005 psi, minimum

Construction:
Body: 303 stainless steel
All other parts: 304 stainless steel
Knob: Black anodized aluminum

Description of O-Ring Materials:

Buna-N (BN): For general applications, petroleum base lubricants, hydraulic oils, gasoline, fuels, alcohol, L.P. gases, water and many other media. Order by request.


Silicone (S): Compatible with air, oxygen, ozone, and others. For high temperature applications. Order by request.

Neoprene (C): For refrigeration gases (Freon®, ammonia), CO₂, chlorine, ozone, sunlight exposure. F.D.A. approved for food and beverages, odorless, tasteless and non toxic. Order by request.

See literature sheet PN 65308

Dimensions

A = 3.80 in. (96.52 mm)  
B = 0.853 in. (21.66 mm)  
C = 1.70 in. (43.18 mm)  
D = 0.85 in. (21.59 mm)  
E = 0.95 in. (24.13 mm)  
F = 1.35 in. (34.29 mm)  
G = 0.48 in. (12.19 mm)  
H = 0.20 in. (5.08 mm)  
I = 0.65 in. (16.51 mm)