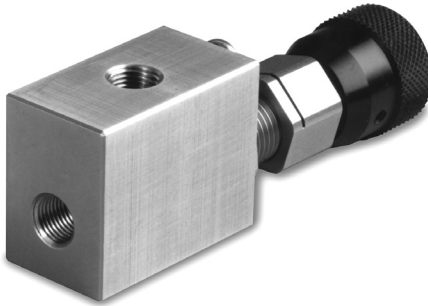


# MPV-10K Micro-metering Precision Valve



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

## 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
- Finger tip adjust - even at 10,000 psi
- Viton O-rings standard; other materials available by request
- Valve can be panel or bracket mounted

## SPECIFICATIONS

### 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:

**Viton (V):** Standard supplied material. High temperature, compatible with wide range of fluids and chemicals: Acids, oils, fuels, solvents, gases, U.V. light, and ozone.

**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.

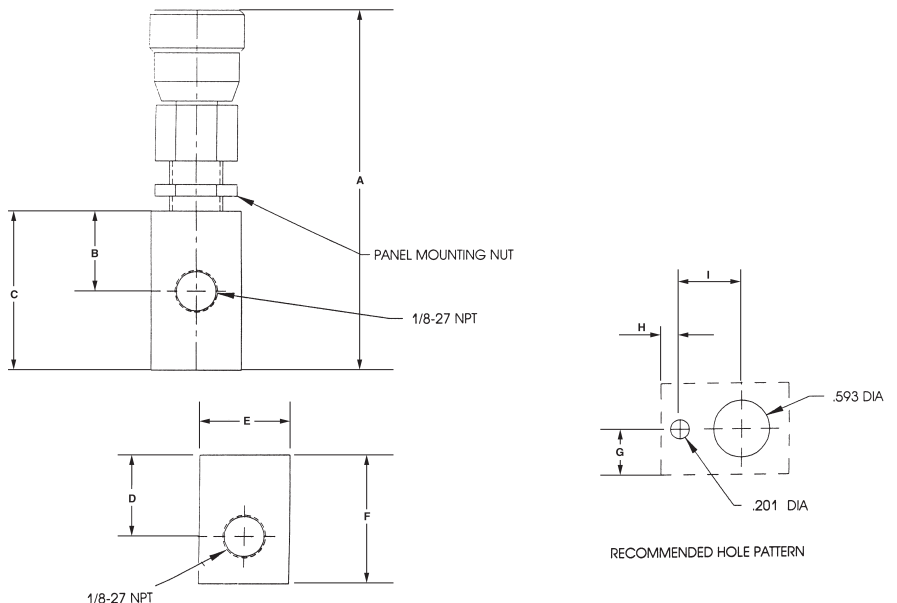
**Ethylene - Propylene (EP):** For hot water, steam, dilute acids, alcohols, alkalis, ketones, phosphate, and brake fluids. Order by request.

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

**Neoprene (C):** For refrigeration gases (Freon®, ammonia), CO<sub>2</sub>, 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

*NOTE: Some O-Ring materials may not be rated for 10,000 psi.*

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)



PRECISION VALVE

**MPV-10K** Micro-metering Precision Valve**MODEL/PRICE**

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
57168	MPV-10K standard unit with Fluorocarbon "Viton"	2 lb	Consult
54803	MPV-10K with "Buna-N" O-ring	2 lb	Consult
54906	MPV-10K with Ethylene-propylene	2 lb	Consult
57161	MPV-10K with Silicone	2 lb	Consult
57122	MPV-10K with Neoprene	2 lb	Consult

**OPTIONS/ACCESSORIES**

PART #	DESCRIPTION	PRICE
68859	Additional adjustment and maintenance manual	Consult
55277	Replacement Fluorocarbon "Viton" O-ring kit, Standard for Orion 3A & MPV-10K Literature sheet PN 65308 (for material uses)	Consult
58499	Replacement Nitrile "Buna-N" O-ring kit, Standard for Orion 2C & Orion 2D Literature sheet PN 65308 (for material uses)	Consult
58506	Replacement Ethylene-Propylene O-ring kit Literature sheet PN 65308 (for material uses)	Consult
58509	Replacement Silicone O-ring kit Literature sheet PN 65308 (for material uses)	Consult
58515	Replacement Neoprene O-ring kit Literature sheet PN 65308 (for material uses)	Consult