

## .0003" to .0050" Dia.

### Description

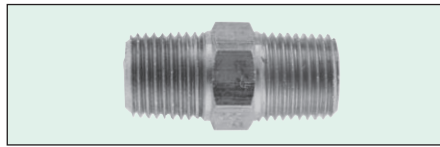
The Precision *Micro-Orifices*® are constructed of brass or stainless steel with orifice sizes from .0003" to .005" diameter. The orifices are used to accurately meter very low flow rates of gases. Optional stainless steel screens are available to protect the tiny orifices from minute contamination particles.

### Applications

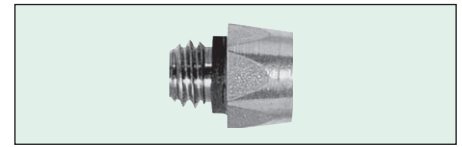
- Precision metering of very low flow rates of gases
- Standard for flow or leak rates
- Accurate timing in pneumatic circuits
- Flow limiting

### Features

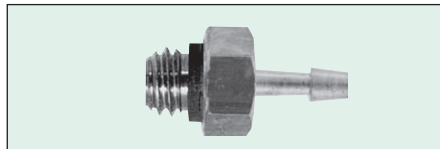
- High temperature capability (Type BLP, IBLP, K4LP, IALP)
- High pressure capability (Type BLP, K4LP, IBLP, IALP)
- Bi-directional flow
- High accuracy
- NIST traceable
- Optional in-line screens available (except Type IBLP, IALP)
- Orifice calibration available



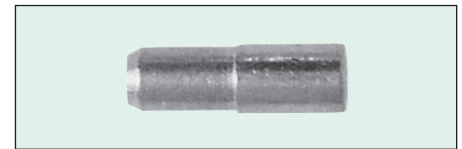
Type BLP - 1/8" NPT Nipple



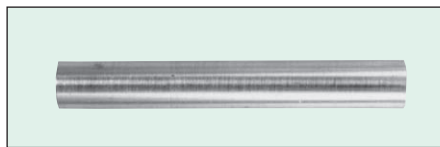
Type QXLP - 10-32 Bleed Plug



Type MLP - 10-32 x 1/16" Barb



Type IBLP - Insert



Type K4LP - 1/4" OD Tube



Type IALP - Insert

### Kits

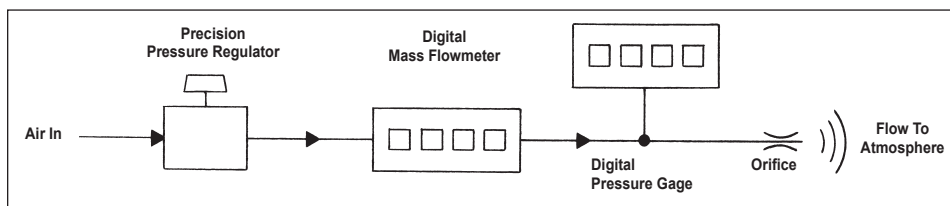
See page 30 for kit selection.

## AIR FLOW — SCCM

Orifice Diameter (In.)	.0003	.0005	.0007	.0010	.0015	.0020	.0025	.0030	.0035	.0040	.0050
Size Number	0C	0E	0G	1	1E	2	2E	3	3E	4	5
Cv	.0000019	.0000053	.0000104	.0000216	.0000477	.0000840	.0001300	.0001860	.0002580	.0003490	.0005450
Supply Pressure — psig	5	0.50	1.38	2.70	5.60	12.4	20.9	33.8	48.2	67.9	144
	10	0.72	2.00	3.92	8.13	18.0	31.3	49.4	70.6	97.1	203
	15	0.90	2.51	4.92	10.2	22.2	40.2	62.6	88.7	123	253
	20	1.08	2.99	5.86	12.2	26.7	47.7	74.5	108	146	299
	25	1.24	3.44	6.74	14.0	31.0	55.0	86.0	124	168	344
	30	1.40	3.90	7.64	15.9	35.3	62.1	97.3	141	190	250
	40	1.74	4.83	9.47	19.7	43.8	77.4	123	173	233	309
	50	2.09	5.80	11.4	24.5	53.2	92.1	146	204	278	369
	60	2.42	6.73	13.2	28.4	61.8	107	169	237	324	428
	70	2.76	7.65	15.0	32.5	70.2	121	192	270	369	487
	80	3.09	8.57	16.8	36.5	78.9	135	215	303	415	542
90	3.45	9.56	18.7	40.7	87.4	153	241	337	461	602	
100	3.80	10.6	20.9	44.8	96.1	168	269	371	504	662	
Flow Accuracy @ 25 psig	±0.40 SCCM	±0.50 SCCM	±0.60 SCCM	±0.70 SCCM	±1.5 SCCM	±4 SCCM	±6 SCCM	±8 SCCM	±10 SCCM	±20 SCCM	±20 SCCM

Above data applies to Types BLP, MLP, QXLP, IBLP, K4LP, IALP and Y2LPSS.

### TEST PROCEDURE



Measurements made @ 70°F ; 29.75" Hg

### CONVERSION FACTORS

SCFH = .00212 X SCCM  
SLPM = .001 X SCCM

### STANDARD CONDITIONS

68°F (20°C)  
14.7 psia

### UNITS

SCFH = Standard cu. ft. per hr.  
SCCM = Standard cu. cm. per min.  
SLPM = Standard liters per min.

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