

# CLARK

## KPM Square Series Miniature Gas Pumps

DC Power, Pressure to 350 mmHg

### DESCRIPTION

The KPMS series pumps incorporate two mini-diaphragms operated by a rocker arm attached to an eccentric on a motor shaft. The function is simple and reliable.

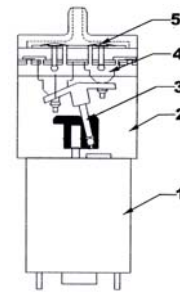
KPMS pumps are remarkably small, with overall length less than 43 mm. In addition to small size and light weight they offer excellent performance considering their very low cost.

KPMS pumps are offered in two models and are only offered for OEM applications. Samples are available for the qualified OEM so that application suitability can be determined.

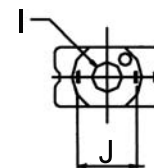
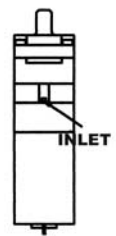
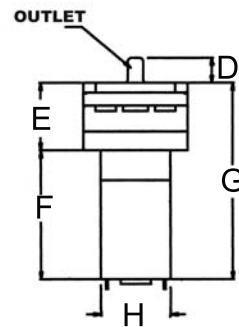
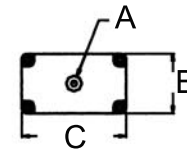


### SPECIFICATIONS

GENERAL	KPM-08A-3A	KPM-12A
Rated Voltage	3 VDC	3 VDC
Operating Voltage	2.0-3.2 V	2.0-3.2 V
Rated Current	<300 mA	<460 mA
Typ. Max Pressure	>300 mmHg	>350 mmHg
Typ. Max Flow (No Back Pressure)	>0.5 LPM	>1.0 LPM
Typ. Max Flow (@150 mmHg)	<0.35 LPM	<0.4 LPM
Typ. Startup Voltage (200 mmHg)	2V	2V
Operating Temp. Range	5-45°C	5-45°C
Operating Humidity Range	30 TO 80% RH	30 TO 80% RH
Duty Cycle	Intermittent	Intermittent
Typ Noise	65 dB (30 cm away)	65 dB (30 cm away)
Typ. Life	150 HRS	150 HRS
Tube Barb O.D.	3 MM O.D.	3 MM O.D.



- 1) DC Motor
- 2) Plastic Body
- 3) Steel Pin
- 4) Rubber Diaphragm
- 5) Rubber Umbrella Valve



### DIMENSIONS (MM)

MODEL	A	B	C	D	E	F	G	H	I	J
KPM-08A-3A	3.1	8.0	17.8	5.0	13.6	18.4	32.0	10.0	4.0	-
KPM-12A	3.1	12.0	21.0	5.0	13.6	24.6	38.2	14.0	6.0	11.8

Note: Above dimensions are for general sizing and reference purposes only. Please request specific model drawing for precise dimensions with tolerances.

### ORDERING INFORMATION

#### SELECT MODEL NUMBER

Model  
KPM-08A-3A  
KPM-12A

These items typically ship from stock