

# Megas Pneumatic Injection Pumps

Megas Pneumatic Pumps are purpose-built for precision chemical injection, offering robust performance through a streamlined, modular design. With flow rates as low as 0.75 quarts per day and discharge pressures up to 10,500 PSI, our systems deliver dependable operation across a wide range of demanding applications. Each unit is designed for field serviceability, extended component life, and minimized downtime. Backed by a responsive technical team, Megas partners with customers to solve real-world challenges and keep operations running at peak efficiency. Now a part of Beaumont Manufacturing and Distribution (BMD), Megas is stronger than ever—delivering enhanced capabilities and deeper support. Every stroke is a result of precision engineering—built to perform, built to last.

## FEATURES

- Minimum cycling of 3 strokes per minute
- Sealed lubrication chamber
- Engineered, coated springs
- Dual seals in P24 and P38
- Exhaust can be vented away from controllers
- Easy installation and retrofit
- Longer spring and seal life
- Ensures concentric stroke and longer life

## MATERIALS

**Wetted parts:**

- 316 Stainless Steel

**Plunger:**

- 17-4 SST (Ceramic coatings available)

**Piston:**

- 303 SST

**Piston Housing:**

- 303 SST

**Timer Body:**

- 303 SST

**Check Balls:**

- 316 SST or Carbide

**Seals:**

- Carbon Graphite TFE, ETP, UHMWPE, or FFKM

**O-rings:**

- Viton, Buna, and FFKM

**Check Seats:**

- TFE

**U Cup:**

- Lubritthane

## OPERATING SPECS BY PUMP

### MODEL MAX OPERATING PRESSURES BY PLUNGER SIZE MAOP (PSI)

Plunger Size	Model 12E	Model 12G	120VAC
3/16"	5,000	6,000	6,000
1/4"	2,500	5,000	2,500
3/8"	1,250	2,500	2,500
1/2"	750	1,250	1,250



### GAS EMISSIONS PER STROKE (SCF)

Supply Pressure	P14	P20	P38
20 PSI	0.0024	0.0054	0.0097
30 PSI	0.0031	0.007	0.0124
40 PSI	0.0038	0.0086	0.0152
50 PSI	0.0045	0.0101	0.018
60 PSI	0.0052	0.0117	0.0208
70 PSI	0.0059	0.0133	0.0236
80 PSI	0.0066	0.0148	0.0264
90 PSI	0.0073	0.0164	0.0291
100 PSI	0.008	0.018	0.0319
110 PSI	0.0087	0.0195	0.0347
120 PSI	0.0094	0.0211	0.0375
130 PSI	0.0101	0.0226	0.0403
140 PSI	0.0108	0.0242	0.043
150 PSI	0.0115	0.0258	0.0458

## HOW TO ORDER

### EXAMPLE MODEL NO. **MP14-SS-UB**

Megas Pneumatic Series Pump MP14, with 1.5" piston x 1/4" plunger, 17-4 Stainless Steel Plunger, UHMWPE Seal material, and Buna O-rings.

**MP14 - SS - U B**

**SERIES**

#### PISTON SIZE X PLUNGER SIZE

**MP14** - 1.5" x 1/4"

**MP24** - 2.25" x 1/4"

**MP38** - 3" x 1/2"

#### PLUNGER MATERIAL

**SS** - 17-4 SST

**CC** - Ceramic Coated

#### SEAL MATERIAL

**E** - ETP

**U** - UHMWPE

**F** - FFKM

**Q** - Carbon/Graphite/TFE

#### O-RING MATERIAL

**V** - Viton

**B** - Buna

**F** - FFKM

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