

Megas Electric Injection Pumps

Megas Chemical Injection Products provide a robust line of electric and solar-powered chemical injection pumps engineered for upstream oil and gas applications. Designed for durability and ease of maintenance, these pumps are available in 120VAC and 24VDC configurations with MAOP ratings up to 6,000 PSI. Solardriven models are offered in high-efficiency and high-torque variants to optimize performance across low- and high-pressure systems, respectively. All units are built with modular components, stainless steel wetted components, and wear-resistant plungers to ensure long service life in remote and demanding environments. Our in-house engineering and technical sales teams are available to assist with application-specific recommendations and custom configurations to meet site requirements and chemical compatibility.

FEATURES

- Class 1, Division 2 Hazardous location available on all models
- Intermittent run control
- V - Ring Packing
- Independent, stroke limiting feature available for flowrate flexibility

CONFIGURE

Skid Mounting:

- Skid designs and mounting configurations available
- Contact support with application specifics, desired control scenarios, and an MSDS for a data driven recommendations

Solar Motors and Optimization:

- Model 12E
 - High Efficiency Motor allows for a more reasonable solar system in many applications
 - Outperforms the Model 12G Solar Motor at all low pressures extremely efficiently, and greatly reduces mechanical loss

MODEL OPERATING PRESSURES

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 | 5,000 |
| 3/8" | 1,250 | 2,500 | 2,500 |
| 1/2" | 750 | 1,250 | 1,250 |



MATERIALS

Wetted parts:

- 316 Stainless Steel

Plunger:

- 17-4 SST or Ceramic coated

Pump Housing:

- Powder coated aluminum

Check Balls:

- 316 SST or Carbide

Wear Parts:

- Oil impregnated bronze

Seals:

- Carbon Graphite TFE, ETP, UHMWPE, or FFKM

Packing:

- Viton/TFE or AFLAS TFE

Check Seats:

- TFE

U Cup:

- Lubrithane

HOW TO ORDER

EXAMPLE MODEL NO. **ME20-11-12G-AA3S-AOC**

Megas Electric Series Pump with ME20 Direct Current, Fixed Stroke, On/Off controller, 12VDC Efficiency Motor, Single head, Aflas/TFE Packing, 3/16" Plunger, and a Stainless Steel plunger.

ME20-11-12G-AA3S-AOC
SERIES

| | |
|------------------|------------------|
| STYLE | |
| AC - ME10 | DC - ME20 |

| | |
|------------------|-----------------------|
| STROKE | |
| 1 - Fixed | 2 - Adjustable |

| | |
|-------------------|--|
| CONTROLLER | |
| 1 - On/Off | |

| | | |
|---|---|------------------------------|
| MOTOR | | |
| 12E - 12VDC Efficiency 24X - 24VDC Brushless | 12G - 12VDC High Torque ACG - Standard 120V ¹ | 12X - 12VDC Brushless |

| | | | |
|-------------------|-----------------|-------------------|-----------------|
| PUMP HEADS | | | |
| A - Single | B - Dual | C - Triple | D - Quad |

| | |
|----------------------------|----------------------|
| PACKING² | |
| A - Aflas/TFE | V - Viton/TFE |

| | | | |
|---------------------|-----------------|-----------------|-----------------|
| PLUNGER SIZE | | | |
| 3 - 3/16" | 4 - 1/4" | 6 - 3/8" | 8 - 1/2" |

| | |
|-------------------------|--------------------|
| PLUNGER MATERIAL | |
| S - Stainless | C - Ceramic |

CONTINUE FOR SOLAR BUNDLE

| | |
|--------------------------|-----------------|
| BATTERY ENCLOSURE | |
| A - Single | B - Dual |

| | | |
|-------------------------|----------------|----------------|
| BATTERY QUANTITY | | |
| 0 - None | 1 - One | 3 - Two |

| | | | |
|----------------------|----------------|----------------|----------------------------|
| SOLAR WATTAGE | | | |
| A - 100 | B - 150 | C - 200 | D⁴ - 200 |

Many applications can be unique, consult your sales reps for data driven motor and control recommendations.

¹ Only used in AC

² Consult factory for additional packing options

³ Two 100 Watt Panels

⁴ Two 150 Watt Panels

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