



# STONEBOR PUMP

McFarland Pump Group

**STONEBOR Model A**

**Electric Drive  
Chemical Injection Pump**

**Flow Rate up to 425 GPD | Pressure up to 5,000 PSI**



The Stonebor Electric Pumps are designed for continuous or intermittent pumping of small volumes of chemicals and corrosive fluids. Its accuracy and dependability suit it well for process plant operations, research, oilfield applications, refineries, water treatment for boilers, and other applications where the injection of precise small volumes of chemicals are needed.

They are furnished as simplex, duplex, triplex and quadruplex, mounted on fabricated steel base, driven by a common electric motor and gear reducer.

- 1. Gear reducer.** Heavy-duty, roller-bearing, oil-bathed gear reducer will give years of trouble-free life.
- 2. Electric motor.** Standard NEMA 56 C frame electric motors available in explosion-proof, TEFC, and open frame; single phase 110/220 volt or 3-phase 208-220/440 volt.
- 3. Stroke adjustment.** The stroke length can be adjusted from 0-1½" to vary the volume output from 0 to the maximum shown for a particular plunger size.

- 4. Crank and crosshead bearings.** Heavy-duty, spherical, self-aligning roller bearings are used on both crank and crosshead. Connecting rod is provided with grease fitting for lubricating bearings.
- 5. Crosshead.** Fabricated steel crosshead housing contains a replaceable bronze Oilite bushing. Bushing and grease seals are contained in crosshead housing with steel snap rings.
- 6. Packing adjustment nut.** Packing adjustment is accomplished by use of a simple hex-headed, brass nut.
- 7. Pump barrel.** Fabricated of 300 Series stainless steel, the pump barrel contains both suction and discharge check valves. An air bleed screw is provided on top of barrel. A preset pressure relief valve can be furnished when specified.
- 8. Suction and discharge check valves.** Both the suction and discharge check valves are unitized cartridges which contain a poppet, soft and hard seat, and spring. All materials are stainless steel and Viton or Buna-N.

## DIMENSIONS

	Length	Width	Height
Model A – Simplex/Duplex	19"	11"	10"
Quadruplex	28"	12"	12"

## STONEBOR PUMPS

**The Maximum in Efficiency  
The Minimum in Maintenance**

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# STONEBOR MODEL A ELECTRIC DRIVE CHEMICAL INJECTION PUMP

## CAPACITY & PRESSURE TABLE

Simplex		Duplex		Quadruplex			Speed		
Model	Capacity*** (Gals per day)	Model	Capacity*** (Gals per day)	Model	Capacity*** (Gals per day)	Plunger Diameter	Stroke (Max)	PSI*** (Max)	Strokes Per Min.
A-S-125-A	0.5 gal/3.5 gal	A-D-125-A	1.0 gal/7 gal	A-Q-125-A	4 gal/14 gal	1/8"	1.5"	5,000	35
A-S-125-B	1.0 gal/8.5 gal	A-D-125-B	2 gal/17 gal			1/8"	1.5"	5,000	87.5
				A-Q-125-B	3 gal/27 gal	1/8"	1.5"	5,000	69
A-S-250-A	1 gal/15 gal	A-D-250-A	2 gal/30 gal	A-Q-250-A	4 gal/60 gal	1/4"	1.5"	3,000	35
A-S-250-B	4 gal/35 gal	A-D-250-B	8 gal/70 gal			1/4"	1.5"	2,500	87.5
				A-Q-250-B	12 gal/110 gal	1/4"	1.5"	2,500	69
A-S-375-A	3.5 gal/30 gal	A-D-375-A	7 gal/60 gal	A-Q-375-A	14 gal/120 gal	3/8"	1.5"	2,000	35
A-S-375-B	8.5 gal/75 gal	A-D-375-B	17 gal/150 gal			3/8"	1.5"	1,500	87.5
				A-Q-375-B	30 gal/250 gal	3/8"	1.5"	1,500	69
A-S-500-A	6 gal/55 gal	A-D-500-A	12 gal/110 gal	A-Q-500-A	24 gal/220 gal	1/2"	1.5"	1,000	35
A-S-500-B	15 gal/140 gal	A-D-500-B	30 gal/280 gal			1/2"	1.5"	500	87.5
				A-Q-500-B	50 gal/425 gal	1/2"	1.5"	500	69

## MATERIALS OF CONSTRUCTION

Pump Body	300 Series stainless steel
Pump Barrel	300 Series stainless steel
Packing Adjustment Nut	Carbon steel, electrolysis nickel-plated
Plunger	17-4 PH
Packing	Teflon*, Buna-N, Special 805 packing (specify)
Check Valves	300 Series stainless steel
Check Valve Seals	Viton or Buna-N
Pump End Connector	Carbon steel, electrolysis nickel-plated

Fluid ends are available in 316 SS, Carpenter 20, Hastelloy B&C, and Monel on special order.

### Weight

Simplex pump complete with motor— 110 lbs.  
Duplex pump complete with motor— 130 lbs.

### Multiple Arrangements

As many as four pumps can be accommodated on a common base powered by a single motor and gear reducer.



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### APPLICATION

- Plant Operations
- Research
- Oilfield Applications
- Refineries
- Water Treatment for boilers
- Injection of precise small volume