



# STONEBOR PUMP

McFarland Pump Group

**SERIES C-19-PR**

**Pneumatic Hydraulic  
Chemical Injection Pump**

**Chemical Delivery up to 942 GPD | Pressure up to 11,000 PSI**

## SPECIFICATIONS

The following specifications are applicable for continuous operation condition

- No flooded suction required
- Minimum delivery – 235 gal. per day – 3/4" plunger
- Maximum delivery – 942 gal. per day ( 1 1/2" plunger size ) 60 SPM
- Complete pump – 300 Series stainless steel
- Maximum discharge pressure – 11,000 PSI – 3/4" plunger
- Minimum supply pressure required – 50 PSI
- Maximum supply pressure – 195 PSI
- Stroke Length (Nominal) 1 1/2"
- Typical with Methanol injection.
- Operating Temperature minimum/maximum 0°F / 180 °F
- Delivery rates – Plunger stroke speed is adjustable while pumping
- Weighs only 37 pounds
- Works fine on wet gas supply
- Low maintenance – Only 11 parts required for normal repair
- Plunger seals for extended life and easy maintenance.
- Meet N.A.C.E Standards for H<sub>2</sub>S Service.
- Available in 316 Stainless steel.



**For High Volume Service**

| Pump Model | Plunger Size (in) | Max. Operating Pressure (PSI) | Max. Chemi Deliver | SUPPLY PRESSURE REQUIRED TO INJECT CHEMICAL AT SYSTEM PRESSURE (PSIG) |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|------------|-------------------|-------------------------------|--------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|            |                   |                               |                    | Chemical Injector System Pressure                                     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|            |                   |                               |                    | 750   | 1000 | 1500 | 2000 | 2500 | 2750 | 3500 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 10000 | 11000 |
| C19-750    | 3/4               | 11,000                        | 235                | 50  | 50   | 50   | 50   | 50   | 50   | 62   | 71   | 88   | 106  | 124  | 141  | 159  | 176   | 194   |
| C19-1000   | 1                 | 6,200                         | 418                | 50  | 50   | 50   | 63   | 79   | 86   | 110  | 125  | 157  | 188  |      |      |      |       |       |
| C19-1250   | 1- 1/4            | 4,000                         | 654                | 50  | 50   | 74   | 98   | 123  | 135  | 171  | 195  |      |      |      |      |      |       |       |
| C19-1500   | 1- 1/2            | 2,750                         | 942                | 50  | 71   | 106  | 141  | 176  | 194  |      |      |      |      |      |      |      |       |       |

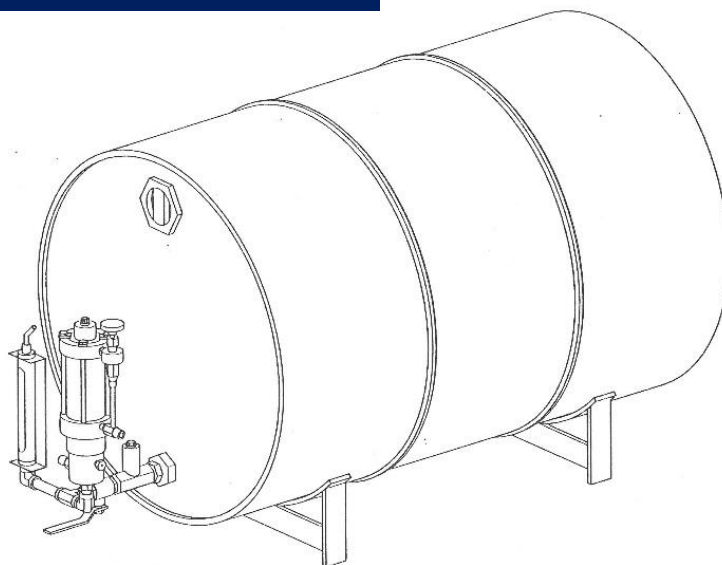
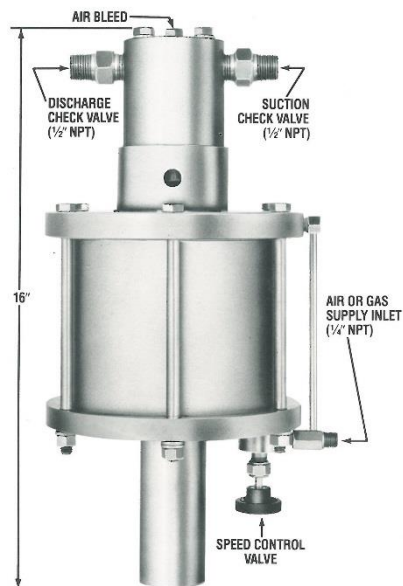
(1) CALCULATED AT MAXIMUM RECOMMENDED SUPPLY PRESSURE OF 195 PSIG

(2) CALCULATED AT 60 STROKES/MIN. CONTINUOUS SERVICE @ 95% VOLUMETRIC EFFICIENCY AND 1- 1/2" STROKE LENGTH.

| Pump Model | STROKE PER MINUTE |     |     |     |     |     |      |      |      |
|------------|-------------------|-----|-----|-----|-----|-----|------|------|------|
|            | 10                | 20  | 30  | 40  | 50  | 60  | 70   | 80   | 90   |
| C19-750    | 39                | 78  | 117 | 157 | 196 | 235 | 274  | 314  | 353  |
| C19-1000   | 70                | 139 | 209 | 279 | 349 | 418 | 488  | 558  | 628  |
| C19-1250   | 109               | 218 | 327 | 436 | 545 | 654 | 763  | 872  | 981  |
| C19-1500   | 157               | 314 | 471 | 628 | 785 | 942 | 1099 | 1256 | 1413 |

Flow Expressed in GPD with 1 1/2" Stroke Length at 95% Volumetric Efficiency

# STONEBOR C19-PR



## Connections & Dimensions

- Liquid Connections                      Suction – Male 1/2" NPT / Discharge- Male 1/2" NPT
- Gas Connections                         1/4" NPT
- Dimensions                                 Height 16", Width 7.5", Depth 8.6"

| Material of Construction         | Standard                  | Optional                               |
|----------------------------------|---------------------------|--|
| Fluid End / Power End Components | 303 SS                    | 316 St.St, Inconel, K-Monel, Aluminum* |
| Fluid End Seals                  | Fluorocarbon              | Teflon, Buna -n                        |
| Power End Seals                  | Moly-impregnated urethane | Teflon, Fluorocarbon, Buna-n           |
| Check Valve Body                 | 303 SS                    | 316 Stainless Steel                    |
| Check Valve Balls                | Ceramic                   | 316 Stainless Steel                    |

\* Not recommended for fluid end

## FEATURES

- Pump must be mounted vertically with the fluid end down. Pump may be supported by piping or may be mounted on STONEBOR bases or mounting brackets.
- Complete chemical Injection packages built to customer requirements.
- Typical with methanol, effective temperature range will depend on the injection chemical.
- Typical, actual consumption will vary from pump to pump.
- Typical with water at 72°F (22°C); actual flow rate will vary with Chemical viscosity and temperature.
- Ensure that the injection chemical and supply gas are compatible with pump material selected



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