



PUMP CATEGORY

Type: Plunger
Control: Stroke Length Adjustment
Stroke: 0-0.6 in (0-15 mm)
Maximum Rod Load: 1,124 lb_f (5 kN)

FLOW RATE

0.0 - 53.33 USG/H (0.0 - 201.88 L/H)

PRESSURE

0 - 12,000 PSIG (0 - 827 BARG)

SUPERIOR DESIGN

- Durable, High-Quality Materials
- Accurate and Repeatable Injection
- Quick Maintenance and Low Downtime
- High Return on Investment

CHEMICAL RESISTANCE

Proprietary, high-quality seal materials enable CheckPoint pumps to provide unparalleled chemical resistance. Wetted components are available in an array of materials. Chemical applications include, but are not limited to:

- Scavengers (H₂S, O₂, CO₂)
- Hydrate Inhibitors (MeOH, MEG, LDHI)
- Foamers and Defoamers
- Corrosion, Scale, and Paraffin Inhibitors
- Clarifiers, Biocides, Bleaches, and Acids

WARRANTY

CheckPoint guarantees 12 months of material and workmanship.

MJ **SYSTEMS** MJ Systems, LLC
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F MODEL	FLOW RATE (MINIMUM) USG/H (L/H)	FLOW RATE (MAXIMUM) USG/H (L/H)	WORKING PRESSURE (MAXIMUM) PSIG (BARG)	PLUNGER DIAMETER IN (MM)	DIMENSIONS L X W X H IN (MM)	WEIGHT LB (KG)	SUCTION CONNECTION	DISCHARGE CONNECTION
1250 1/8"	0.0 (0.0)	0.34 (1.29)	12,000 (827)	1/8 (3.2)	25.1 (645) X 17.8 (452) X 12.5 (318)	58.4 (26)	1/4" MNPT	1/4" MNPT
1250 3/16"	0.0 (0.0)	0.77 (2.91)	7,500 (517)	3/16 (4.89)	25.1 (645) X 17.8 (452) X 12.5 (318)	58.4 (26)	1/4" MNPT	1/4" MNPT
1250 1/4"	0.0 (0.0)	1.37 (5.19)	12,000 (827)	1/4 (6.4)	25.1 (645) X 17.8 (452) X 12.5 (318)	58.4 (26)	1/4" MNPT	1/4" MNPT
1250 3/8"	0.0 (0.0)	3.16 (11.96)	7,500 (517)	3/8 (9.5)	25.1 (645) X 17.8 (452) X 12.5 (318)	58.4 (26)	1/4" MNPT	1/4" MNPT
1250 1/2"	0.0 (0.0)	5.92 (22.41)	5,700 (393)	1/2 (12.7)	25.1 (645) X 17.8 (452) X 12.5 (318)	58.4 (26)	1/4" MNPT	1/4" MNPT
1500 3/8"	0.0 (0.0)	3.16 (11.96)	10,000 (689)	3/8 (9.5)	25.1 (645) X 18.9 (480) X 12.5 (318)	110 (50)	1/2" MNPT	3/8" AC
1500 1/2"	0.0 (0.0)	5.92 (22.41)	5,700 (393)	1/2 (12.7)	25.1 (645) X 18.9 (480) X 12.5 (318)	110 (50)	1/2" MNPT	1/2" MNPT
1500 3/4"	0.0 (0.0)	13.33 (50.46)	2,500 (172)	3/4 (19.05)	25.1 (645) X 18.9 (480) X 12.5 (318)	110 (50)	1/2" MNPT	1/2" MNPT
1500 1"	0.0 (0.0)	23.70 (89.71)	1,400 (97)	1 (25.4)	25.1 (645) X 18.9 (480) X 12.5 (318)	110 (50)	1/2" MNPT	1/2" MNPT
1500 1-1/2"	0.0 (0.0)	53.33 (201.88)	630 (43)	1-1/2 (38.1)	25.1 (645) X 19.3 (490) X 12.5 (318)	124.3 (56)	3/4" MNPT	3/4" MNPT

Tabular data should be used for quick reference only. See performance curves for accurate pump selection. Graph reflects single head pump with 1,750 RPM motor and 8.33:1 reducer. Multiply flow by 0.83 for 1,450 RPM motor. Series F pumps are available with other gear reduction ratios and multiple heads. Contact CheckPoint for additional data.



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CheckPoint's **Series F** pump delivers up to 53.33 USG/H (201.88 L/H) and can reliably inject into pressures up to 12,000 PSIG (827 BARG) per head. The Series F features a robust casing and a variable eccentric drive designed to withstand harsh conditions of oil and gas installations, and it contains minimal moving parts to further guarantee long-term reliability and superior uptime. Its drive is similar to that of CheckPoint's Series E pump, but its size is larger due to a greater maximum rod load rating which allows for higher pressures to be achieved with certain plunger sizes. An infinitely adjustable stroke length of 0-0.6 in (0-15 mm) ensures extremely precise and accurate dosing. The flow rate can be controlled while the unit is stopped or running by a single hand with the manual Vernier scale dial, or remotely using a 4-20mA signal with a rotary actuator upgrade. Multiple drives may be combined with one motor to provide redundancy, or to service several injection points. This feature aids in minimizing cost, footprint, and weight, while maintaining a high degree of accuracy at each individual point regardless of differences in operating pressures. CheckPoint's Series F and Series E drives can be coupled, and a large selection of motors can be accommodated. These features provide a wide variety of solutions and ensure compliance to any electrical requirements. To meet a wide array of chemical injection applications and to reduce spares inventory through part interchangeability, Series F pumps utilize CheckPoint's distinguished Series 1250 and 1500 modular chemical heads, which offer a full range of plunger diameters from 1/8" to 1-1/2".

Our pumps maintain unparalleled chemical resistance due to the essential integration of high-quality, proprietary seal materials. In order to meet a wide variety of chemical compatibility needs, wetted parts are available in an array of materials, such as 316 SS, Hastelloy C-276, Duplex 2205, Super Duplex 2507, PVC, ceramic and titanium, and seals are available in Viton, HNBR, FKM, and FFKM. All wet end construction materials meet the requirements of NACE MRO175 and ISO 15156.

We recommend "Plug & Play" injection packages (as pictured below) as an optimum solution to efficiently and effectively integrate chemical injection into your process. CheckPoint has engineered, manufactured, and sourced high-quality components which, combined in a package with our pumps, maximize product life and optimize productivity. We also offer custom system design and technical services to meet specialty product requirements. CheckPoint will create a solution that meets your specific chemical injection needs, from concept to completion.

