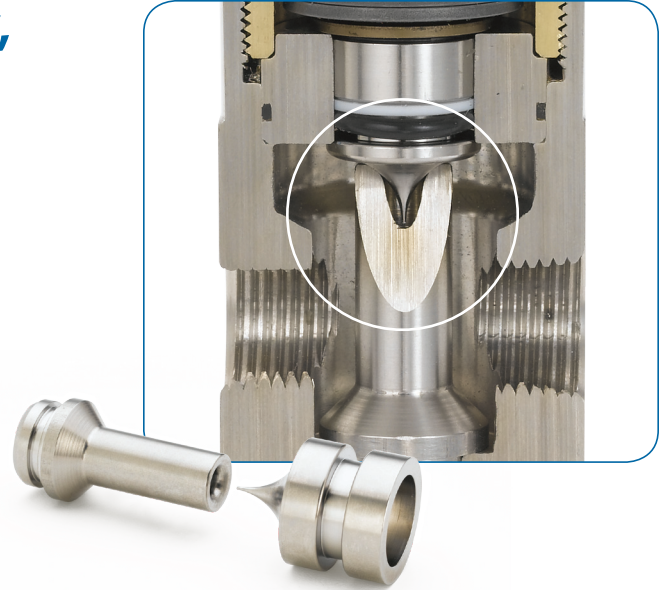


PRESSURE REGULATORS

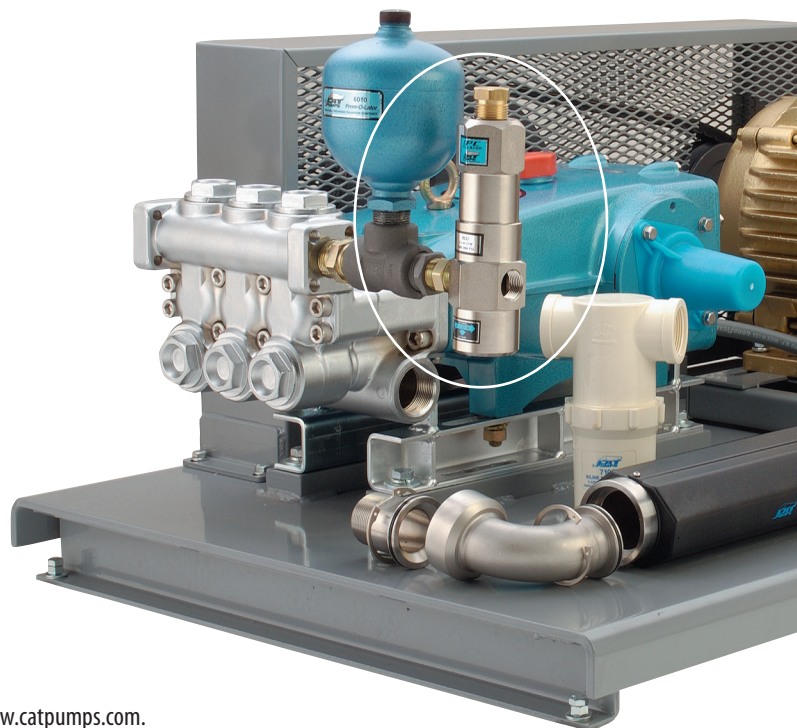


Designed for continuous-duty, industrial applications

Industrial high pressure applications require dependable and quality regulating equipment. Regulators are used to set system pressure, by-pass unused liquid without interrupting system operation and protect the pump from exceeding set system pressure. Models are constructed of steel/nickel plated or stainless steel, and are available in sizes up to 75 gpm (284 lpm) and up to 10,000 psi (690 bar).



- Conical design lowers minimum required by-pass flow from 10% to 5% which permits optimum system output while providing more consistent pressure control.
- Low pressure override provides smooth and stable operation with no chatter.
- Compact in-line plumbing, when a small footprint is critical.
- Fluorocarbon (FPM) o-rings for durability and a broad liquid compatibility range.
- Compared to traditional poppet style regulators, the conical design virtually eliminates cavitation effects as the high pressure liquid is expanded across the piston and seat significantly extending service life.



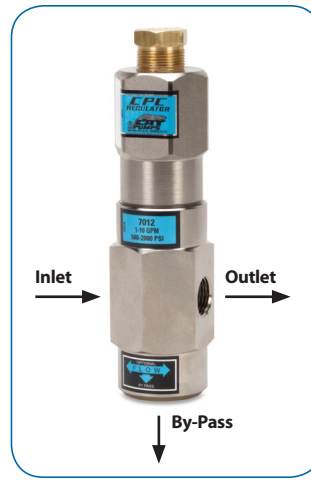
See back page for complete listing of pressure regulators or visit our website at www.catpumps.com. Click Product Selector and then Accessory Selector to choose regulators by specifications to match each pump.

Selection

A properly selected pressure regulator should cover desired system flow, system pressure and potential liquid being pumped. If system flow and pressure are at the maximum for the valve, longer life can be achieved by upgrading to the next size valve.

Installation

Install pressure regulator at the discharge side of the manifold head to optimize reaction to flow demand changes and provide maximum protection from over pressurization. Position regulator so adjusting handle or nut is easily accessible.



Flow - Thru Models



Tee - Models

Steel/Nickel Plated (All models are Flow-Thru design)

| Model | FLOW RANGE | | PRESSURE RANGE | | PORTS | | Dimensions |
|-------|------------|----------|----------------|---------|-----------------|-----------|----------------------------|
| | gpm | lpm | psi | bar | Inlet/Discharge | By-Pass | |
| 7001 | 0.5-5 | 1.9-19 | 100-1000 | 7-70 | 3/8" NPTF | 1/2" NPTF | 6.25 x 1.50" (159 x 38 mm) |
| 7002 | 0.5-5 | 1.9-19 | 500-2000 | 35-140 | 3/8" NPTF | 1/2" NPTF | 6.25 x 1.50" (159 x 38 mm) |
| 7003 | 0.5-5 | 1.9-19 | 1500-3000 | 105-210 | 3/8" NPTF | 1/2" NPTF | 6.25 x 1.50" (159 x 38 mm) |
| 7011 | 1-10 | 3.8-38 | 100-1000 | 7-70 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7012 | 1-10 | 3.8-38 | 500-2000 | 35-140 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7013 | 1-10 | 3.8-38 | 1500-3000 | 105-210 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7014 | 1-10 | 3.8-38 | 2000-4000 | 138-276 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7021 | 2.5-25 | 9.5-95 | 100-1000 | 7-70 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7022 | 2.5-25 | 9.5-95 | 500-2000 | 35-140 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7023 | 2.5-25 | 9.5-95 | 1500-3000 | 105-210 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7024 | 2.5-25 | 9.5-95 | 2000-4000 | 138-276 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7031 | 3.5-35 | 13.2-132 | 250-1000 | 18-70 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7032 | 3.5-35 | 13.2-132 | 1000-2000 | 70-140 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7033 | 3.5-35 | 13.2-132 | 1500-3000 | 105-210 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |

Stainless Steel (All models are Flow-Thru design except Tee mount model 7370)

| Model | FLOW RANGE | | PRESSURE RANGE | | PORTS | | Dimensions |
|----------|------------|----------|----------------|---------|-----------------|-------------|--------------------------------------|
| | gpm | lpm | psi | bar | Inlet/Discharge | By-Pass | |
| 7001.100 | 0.5-5 | 1.9-19 | 100-1000 | 7-70 | 3/8" NPTF | 1/2" NPTF | 6.25 x 1.50" (159 x 38 mm) |
| 7002.100 | 0.5-5 | 1.9-19 | 500-2000 | 35-140 | 3/8" NPTF | 1/2" NPTF | 6.25 x 1.50" (159 x 38 mm) |
| 7003.100 | 0.5-5 | 1.9-19 | 1500-3000 | 105-210 | 3/8" NPTF | 1/2" NPTF | 6.25 x 1.50" (159 x 38 mm) |
| 7710 | 0.5-10 | 1.9-38 | 2000-10,000 | 138-689 | 3/8" FMP* | 3/8" NPTF | 5.8 x 2.25 x 1.6" (148 x 57 x 41 mm) |
| 7720 | 0.5-10 | 1.9-38 | 2000-10,000 | 138-689 | 1/4" NPTF | 3/8" NPTF | 5.8 x 2.25 x 1.6" (148 x 57 x 41 mm) |
| 7011.100 | 1-10 | 3.8-38 | 100-1000 | 7-70 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7012.100 | 1-10 | 3.8-38 | 500-2000 | 35-140 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7013.100 | 1-10 | 3.8-38 | 1500-3000 | 105-210 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7014.100 | 1-10 | 3.8-38 | 2000-4000 | 138-276 | 1/2" NPTF | 3/4" NPTF | 7.5 x 1.9" (190 x 48 mm) |
| 7370 | 1-12 | 3.8-45 | 400-1500 | 28-105 | 1/4" NPTF | 3/8" NPTF | 6 x 2.26" (152 x 56 mm) |
| 7021.100 | 2.5-25 | 9.5-95 | 100-1000 | 7-70 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7022.100 | 2.5-25 | 9.5-95 | 500-2000 | 35-140 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7023.100 | 2.5-25 | 9.5-95 | 1500-3000 | 105-210 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7024.100 | 2.5-25 | 9.5-95 | 2000-4000 | 138-276 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7031.100 | 3.5-35 | 13.2-132 | 250-1000 | 18-70 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7032.100 | 3.5-35 | 13.2-132 | 1000-2000 | 70-140 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7033.100 | 3.5-35 | 13.2-132 | 1500-3000 | 105-210 | 3/4" NPTF | 1" NPTF | 8.5 x 2.25" (216 x 57 mm) |
| 7375 | 10-75 | 38-284 | 100-1000 | 7-70 | 1-1/4" NPTF | 1-1/2" NPTF | 11 x 3.5" (279 x 89 mm) |
| 7376 | 10-75 | 38-284 | 500-2000 | 35-140 | 1-1/4" NPTF | 1-1/2" NPTF | 11 x 3.5" (279 x 89 mm) |

Contact CAT Pumps for traditional tee mount poppet style brass regulators - 7080 (2.5 to 7.8 gpm/150 - 1450 psi), 7082 (2.5 - 7.8 gpm/850 - 3575 psi), 7085 (1.0 - 3.5 gpm/205 - 2300 psi).

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