

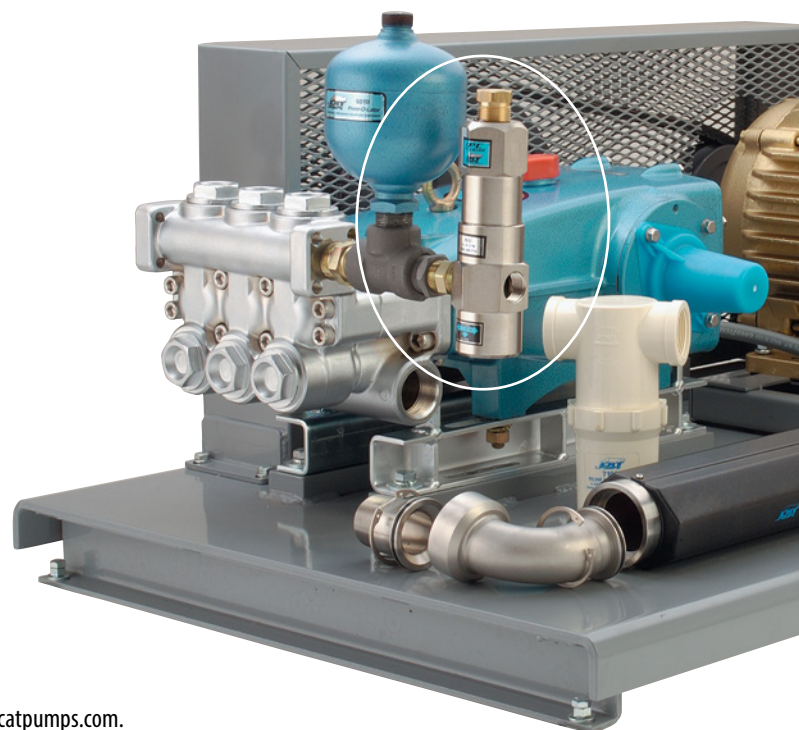
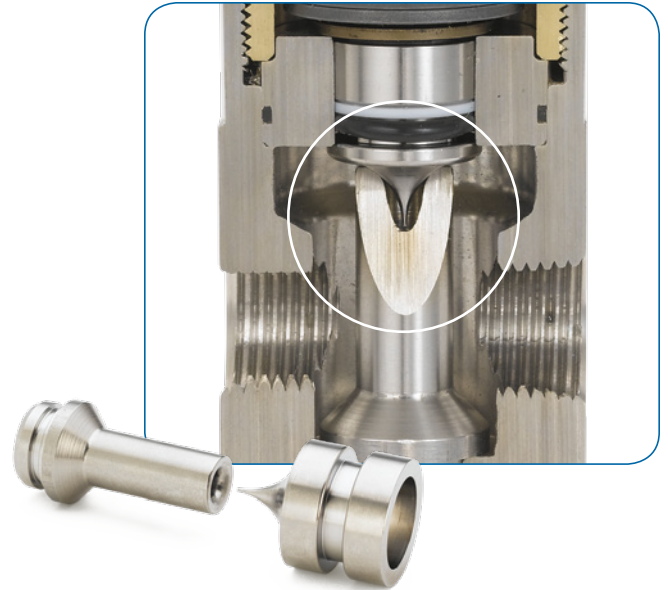
PRESSURE REGULATORS



Designed for continuous-duty, industrial applications

Industrial high pressure applications require dependable and quality regulating devices. 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 100 gpm (378 lpm) and up to 10,000 psi (689 bar).

- Conical design lowers minimum required by-pass flow from 10% to 5%, which permits optimum system output while providing more consistent pressure control.
- Lower override pressure compared to competitive designs results in better system protection while reducing wear and energy cost.
- Superior valve design provides smooth, stable service with quiet operation and no chatter.
- Compact in-line plumbing for easy mounting and minimal space requirements.
- 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.



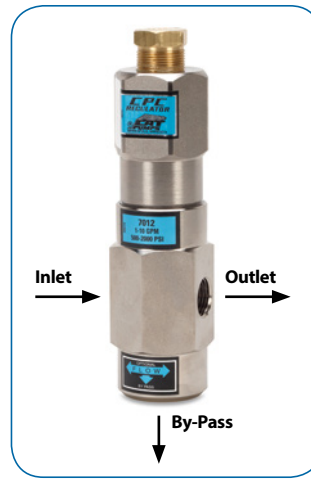
See back page for complete listing of pressure regulators or visit our website at www.catpumps.com. Click Product Selector and then Accessory Selector to choose regulators by specifications to match each pump.

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	6.9-69	3/8" NPT(F)	1/2" NPT(F)	6.25 x 1.50" (159 x 38 mm)
7002	0.5-5	1.9-19	500-2000	34-138	3/8" NPT(F)	1/2" NPT(F)	6.25 x 1.50" (159 x 38 mm)
7003	0.5-5	1.9-19	1500-3000	103-257	3/8" NPT(F)	1/2" NPT(F)	6.25 x 1.50" (159 x 38 mm)
7011	1-10	3.8-38	100-1000	6.9-69	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7012	1-10	3.8-38	500-2000	34-138	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7013	1-10	3.8-38	1500-3000	103-207	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7014	1-10	3.8-38	2000-4000	138-275	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7021	2.5-25	9.5-95	100-1000	6.9-69	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7022	2.5-25	9.5-95	500-2000	34-138	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7023	2.5-25	9.5-95	1500-3000	103-207	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7024	2.5-25	9.5-95	2000-4000	138-275	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7031	3.5-35	13.2-132	250-1000	17-69	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7032	3.5-35	13.2-132	1000-2000	69-138	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7033	3.5-35	13.2-132	1500-3000	103-207	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)

Stainless Steel (All models are Flow-Thru design except Tee mount model 7350)

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	6.9-69	3/8" NPT(F)	1/2" NPT(F)	6.25 x 1.50" (159 x 38 mm)
7002.100	0.5-5	1.9-19	500-2000	34-138	3/8" NPT(F)	1/2" NPT(F)	6.25 x 1.50" (159 x 38 mm)
7003.100	0.5-5	1.9-19	1500-3000	103-207	3/8" NPT(F)	1/2" NPT(F)	6.25 x 1.50" (159 x 38 mm)
7720	0.5-10	1.9-38	2000-10,000	138-689	1/4" NPT(F)	3/8" NPT(F)	5.8 x 2.25 x 1.6" (148 x 57 x 41 mm)
7011.100	1-10	3.8-38	100-1000	6.9-69	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7012.100	1-10	3.8-38	500-2000	34-138	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7013.100	1-10	3.8-38	1500-3000	103-207	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7014.100	1-10	3.8-38	2000-4000	138-275	1/2" NPT(F)	3/4" NPT(F)	7.5 x 1.9" (190 x 48 mm)
7350	1-12	3.8-45	400-1500	28-103	1/4" NPT(F)	3/8" NPT(F)	6 x 2.26" (152 x 56 mm)
7021.100	2.5-25	9.5-95	100-1000	6.9-69	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7022.100	2.5-25	9.5-95	500-2000	34-138	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7023.100	2.5-25	9.5-95	1500-3000	103-207	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7024.100	2.5-25	9.5-95	2000-4000	138-275	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7031.100	3.5-35	13.2-132	250-1000	17-69	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7032.100	3.5-35	13.2-132	1000-2000	69-138	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7033.100	3.5-35	13.2-132	1500-3000	103-207	3/4" NPT(F)	1" NPT(F)	8.5 x 2.25" (216 x 57 mm)
7375	10-75	38-284	100-1000	6.9-69	1-1/4" NPT(F)	1-1/2" NPT(F)	11 x 3.5" (279 x 89 mm)
7376	10-75	38-284	500-2000	34-138	1-1/4" NPT(F)	1-1/2" NPT(F)	11 x 3.5" (279 x 89 mm)
7410	10-100	38-378	100-1500	6.9-103	1-1/2" NPT(F)	2" NPT(F)	11.42 x 3.25" (290 x 83)

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).

CAT PUMPS

1681 94th Lane NE, Minneapolis, MN 55449

Phone: 763.780.5440 Fax: 763.780.2958 e-mail: techsupport@catpumps.com www.catpumps.com