

# CHEMICAL INJECTION PULSE PUMPS



## Pulse Pumps

Harsh chemicals can damage the inner components of a high-pressure pump if run through the main pumping chamber. Pulse pumps from Cat Pumps are a cost-effective solution to bypass the primary pump, injecting these solutions down-stream and preventing premature wear on parts. This allows users to run standard high-pressure pumps instead of special, more costly stainless steel pumps with chemical-resistant seals.

The same proven quality and attention to detail that customers have come to expect from Cat Pumps is built into every pulse pump chemical injector. With pressures up to 3,000 psi (207 bar) and injection rates up to 12 gph, these pulse pumps can be used on a wide variety of new or existing systems. The installation process is so simple that pumps can be retrofitted quickly in the field.



Model 6350 Pulse Pump mounted on 3CP1120 (pump, rails and shaft protector sold separately)



Model 6340 Pulse Pump mounted on 7CP6110CS (pump and rails sold separately)

## Features

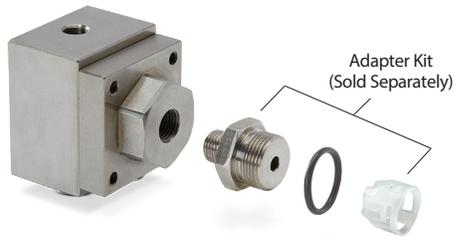
- Long lasting and simple to service
- Can be used with a wide range of high-pressure pumps, from small direct-drive to large belt-driven pumps.
- Easy to retrofit in the field
- Accurate and easy to control injection rates
- Two pulse pumps can be used on one high-pressure pump to double chemical injection rate or use two separate chemicals
- Chemical pump can be turned on and off independently from main system

## Typical Applications

- Sanitizing / Disinfecting
- Pressure Wash
- Truck Mount
- Vehicle and Equipment Wash
- Surface Cleaning

# Pulse Pump Specifications

## 6340 & 6341



## 6350 & 6351



SPECIFICATIONS	U.S. MEASURE	METRIC MEASURE
Pressure Range	100 – 2000 psi	6.9 – 138 bar
Maximum Injection Rate	10.5 gph	39.7 lph
RPM Range	1000 – 1800 rpm	1000 – 1800 rpm
Maximum Liquid Temp.	130° F	54° C
Inlet Port (1)	1/8" NPT(F)	1/8" NPT(F)
Discharge Port (1)	1/8" NPT(F)	1/8" NPT(F)
Adapter Port (1)	1/4" NPT(F)	1/4" NPT(F)
Weight	2.1 lbs.	0.95 kg
Dimensions	2.4 x 2 x 2.7"	61 x 51 x 68 mm

Note: Maximum inlet pressure for drive pump is 5 psi

SPECIFICATIONS	U.S. MEASURE	METRIC MEASURE
Pressure Range	500 – 3000 psi	35 – 207 bar
Maximum Injection Rate	12 gph	45.4 lph
RPM Range	300 – 1800 rpm	300 – 1800 rpm
Maximum Liquid Temp.	130° F	54° C
Inlet Port	1/4" Hose Barb	1/4" Hose Barb
Discharge Port	1/8" NPT(F)	1/8" NPT(F)
Weight	2.9 lbs.	1.32 kg
Dimensions	5" x 2"	127 x 51 mm

Note: Maximum inlet pressure for drive pump is 20 psi

MAXIMUM INJECTION RATE			
PUMP RPM	INJECTION RATE	PUMP RPM	INJECTION RATE
1000	5.5 gph	1500	10.0 gph
1100	7.0 gph	1600	10.5 gph
1200	8.0 gph	1700	10.5 gph
1300	9.0 gph	1800	10.5 gph
1400	9.5 gph		

MAXIMUM INJECTION RATE			
PUMP RPM	INJECTION RATE	PUMP RPM	INJECTION RATE
500	5.0 gph	1000	10.0 gph
600	6.0 gph	1100	11.0 gph
700	7.0 gph	1200	12.0 gph
800	8.0 gph	1800	12.0 gph
900	9.0 gph		

INTERNAL DIAPHRAGM MATERIAL	
6340	6341
EPDM	FPM

INTERNAL O-RING & VALVE MATERIAL	
6350	6351
FPM O-Ring	FPM O-Ring
Acetal Inlet Valve	Stainless Steel Inlet Valve

## Adapter Selection Chart

PUMP MODEL	6340 / 6341 ADAPTER	6350 / 6351 ADAPTER
335, 435	See Note	76400
3CP1120 – 1140, 310 – 350, 5CP2120W – 2150W	31227	76405
5CP3105 – 3160, 5CP5120 – 5140CSS	31233	76410
5CP6120 – 5CP6190, 530 – 550, 660, 1050, 7CP6110CSS – 6170	31232	76415
56, 60	31228	76626

Note: Hex nipple [1/2" NPT(M) x 1/4" NPT(M)] required for piston models 335 and 435.

# Pump Selection Chart

## DIRECT-DRIVE ELECTRIC

PUMP MODEL	PUMP FLOW GPM @ RATED RPM	6340 / 6341		6350 / 6351			
		MAXIMUM CHEMICAL %	MAXIMUM PSI	MAXIMUM BAR	MAXIMUM CHEMICAL %	MAXIMUM PSI	MAXIMUM BAR
3CP1130	2.4	7.3	2000	138	8.3	2200	152
5CP3110CSS	3.6	4.9	2000	138	5.6	3000	207
5CP2140WCS	4	4.4	2000	138	5.0	2500	172
5CP4120CSS	4.5	3.9	2000	138	4.4	3000	207
5CP2150W	5	3.5	2000	138	4.0	3000	207
5CP5120CSS	6	2.9	2000	138	3.3	3000	207
5CP5140CSS	6.4	2.7	2000	138	3.1	3000	207
5CP6120	7.4	2.4	1200	83	2.7	1200	83
56	8	2.2	2000	138	2.5	2500	172
5CP6190	10	1.8	1000	69	2.0	1000	69



## DIRECT-DRIVE ENGINE, GEARBOX

PUMP MODEL	PUMP FLOW GPM @ RATED RPM	6340 / 6341		6350 / 6351			
		MAXIMUM CHEMICAL %	MAXIMUM PSI	MAXIMUM BAR	MAXIMUM CHEMICAL %	MAXIMUM PSI	MAXIMUM BAR
3CP1120G	3.5	5.0	2000	138	5.7	2200	152
5CP3160CSSG1	4	4.4	2000	138	5.0	3000	207
5CP3150CSSG1	5	3.5	2000	138	4.0	3000	207
5CP5140CSSG1	6.2	2.8	2000	138	3.2	3000	207
5CP6120CSSG1	7.2	2.4	1500	103	2.8	1500	103
56G1	8	2.2	2000	138	2.5	2500	172
5CP6190G1	9.7	1.8	1000	69	2.1	1000	69
7CP6160CSG1	10	1.8	2000	138	2.0	2500	172
7CP6170G1	12	1.5	1800	124	1.7	1800	124



## BELT-DRIVE, MOTOR OR ENGINE

PUMP MODEL	PUMP FLOW GPM @ RATED RPM	6340 / 6341		6350 / 6351			
		MAXIMUM CHEMICAL %	MAXIMUM PSI	MAXIMUM BAR	MAXIMUM CHEMICAL %	MAXIMUM PSI	MAXIMUM BAR
3CP1130	2.4	7.3	2000	138	8.3	2200	152
5CP3110CSS	3.6	4.9	2000	138	5.6	3000	207
5CP2140WCS	4	4.4	2000	138	5.0	2500	172
5CP3120	4.5	3.9	2000	138	4.4	3000	207
5CP2150W	5	3.5	2000	138	4.0	3000	207
5CP3150CSS	5.2	3.4	2000	138	3.3	3000	207
5CP5140CSS	6.4	2.7	2000	138	3.1	3000	207
5CP6120	7.4	2.4	1200	83	2.7	1200	83
56	8	2.2	2000	138	2.5	2500	172
5CP6190	10	1.8	1000	69	2.0	1000	69
660	10	1.8	2000	138	2.0	3000	207
7CP6160CS	10.6	1.7	2000	138	1.9	2500	172



Note: 6340 / 6341 chemical injection rate at 1750 rpm is 10.5 gallons/hour or 0.18 gallons/minute  
6350 / 6351 chemical injection rate at 1750 rpm is 12 gallons/hour or 0.20 gallons/minute

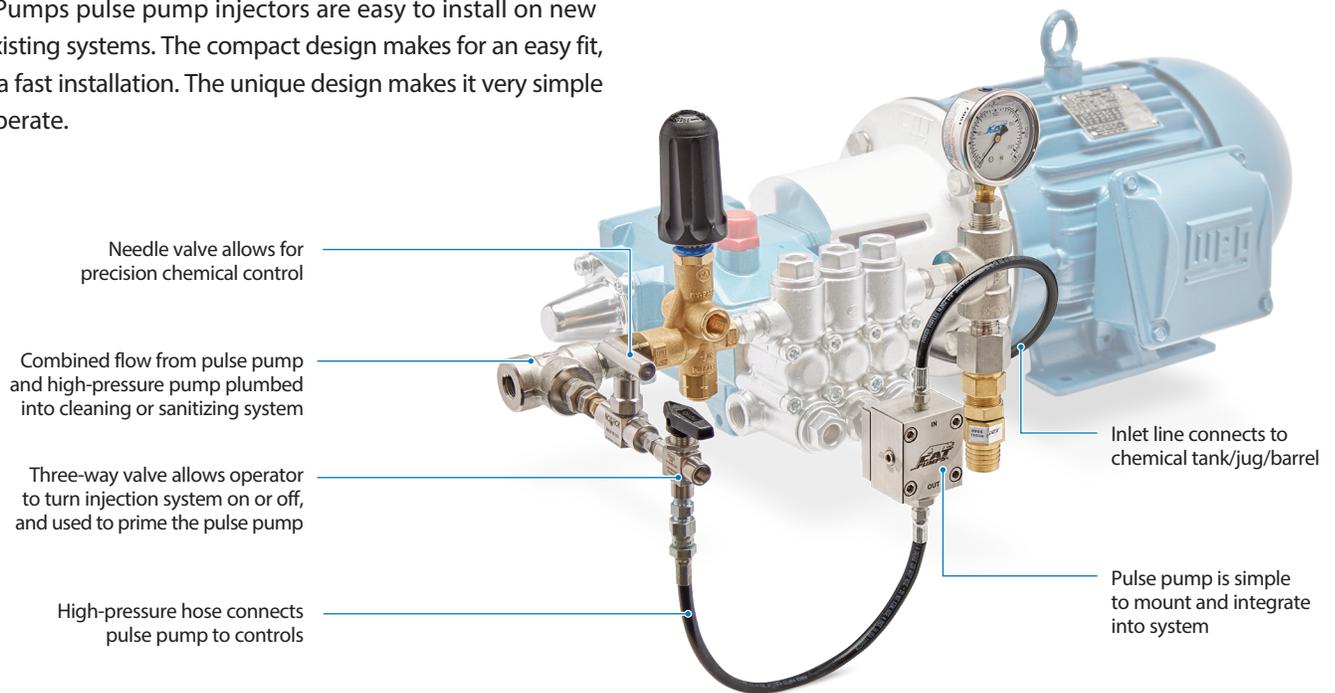
Chemical injection rates are adjustable from max injection rate down to under 1%

Refer to Pulse Pump data sheets for additional information on injection rates.

# Pulse Pump Plumbing

Simple system integration and operation.

Cat Pumps pulse pump injectors are easy to install on new or existing systems. The compact design makes for an easy fit, and a fast installation. The unique design makes it very simple to operate.



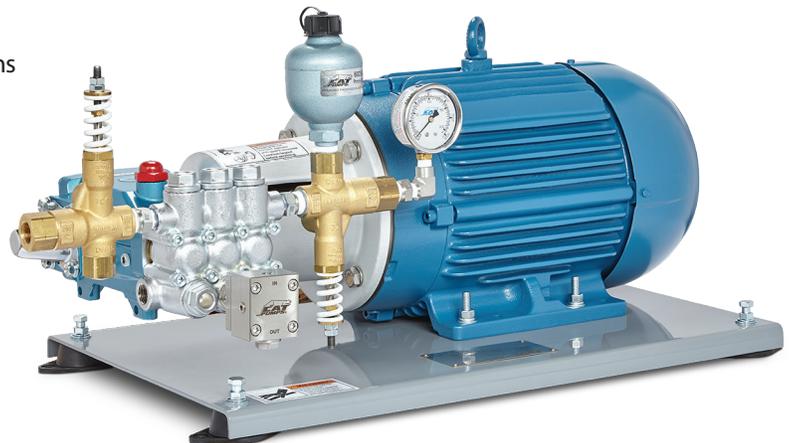
# Custom-Engineered Power Units

You define. We design.

Cat Pumps also offers custom-engineered systems (power units) that are designed to meet your requirements. All units are factory flow and pressure tested before shipment. Complete our online Power Unit Quote Form online or call for a quote. See [catpumps.com](http://catpumps.com).

### Design Features:

- Electric, gas, diesel, hydraulic and pneumatic drive options
- Heavy-duty construction
- Compact, streamline design
- Various control options to meet application needs
- Stationary or portable design
- Corrosion-resistant options
- System accessories



Contact Cat Pumps for more information at [info@catpumps.com](mailto:info@catpumps.com) or (763) 780-5440



### CAT PUMPS

1681 – 94<sup>TH</sup> LANE N.E. MINNEAPOLIS, MN 55449-4324  
PHONE (763) 780-5440 | FAX (763) 780-2958  
E-MAIL: [INFO@CATPUMPS.COM](mailto:INFO@CATPUMPS.COM)  
[WWW.CATPUMPS.COM](http://WWW.CATPUMPS.COM)