



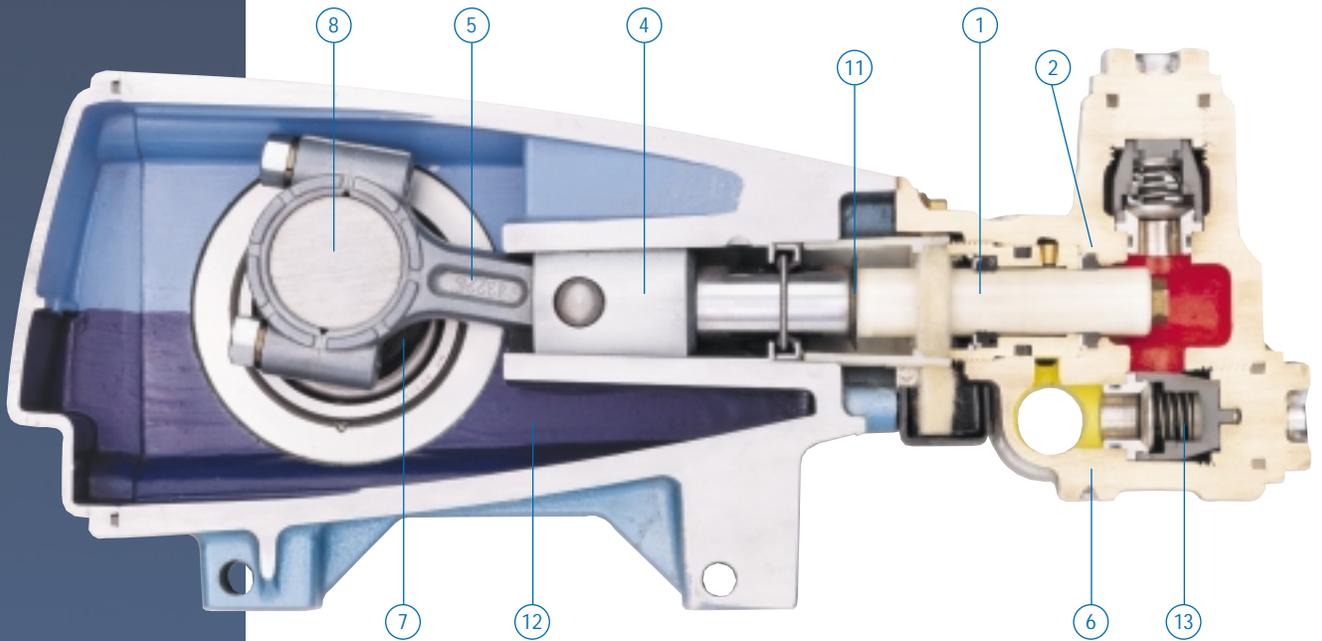
The Pumps with Nine Lives

PISTON PUMPS



Proven Design and Quality Components Assure Long-Term Performance

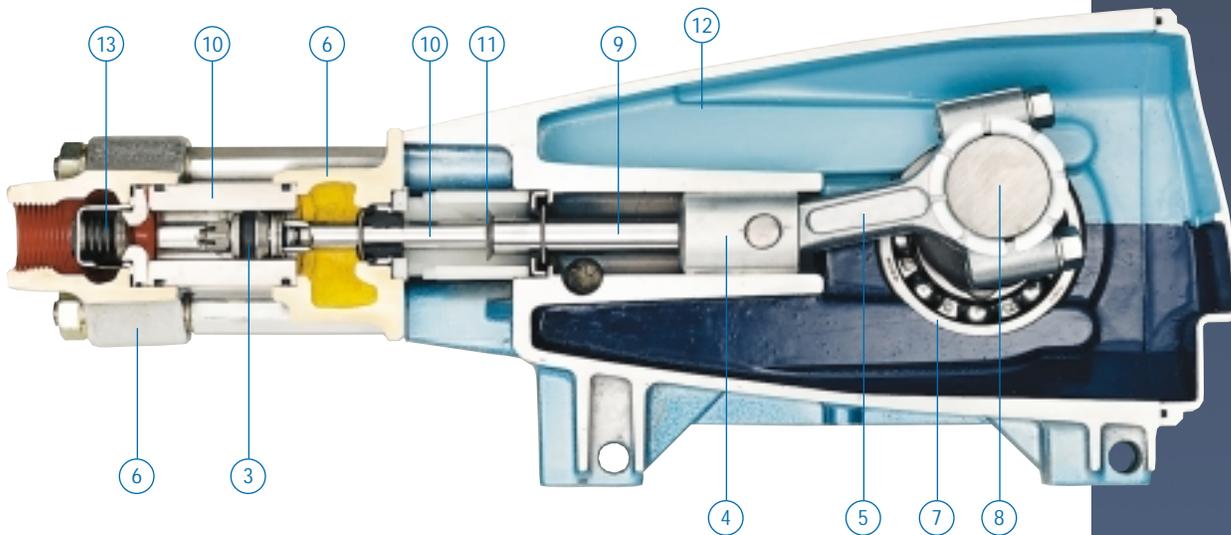
Triplex
Plunger
Pumps



1. Special concentric, high-density, polished, solid **ceramic plungers** are resistant to abrasion and result in extended seal life.
2. Specially formulated, CAT PUMP exclusive Hi-Pressure **Seal** offers unmatched performance and seal life. Optional FPM, EPDM, PTFE or other special materials for application compatibility.
3. 100% wet **cup/seal** design adds to service life by allowing pumped liquids to cool and lubricate the elastomers on both sides.
4. The high strength stainless steel **plunger rods** have a 360° supported crosshead providing uncompromising plunger rod alignment.
5. Matched oversized **connecting rods** are made of high strength alloys with exceptional bearing quality.
6. High strength forged brass **manifolds**. Optional 316 stainless steel, nickel aluminum bronze or Duplex SS for exceptional corrosion resistance.
7. Oversized ball **bearings** or tapered roller bearings provide extended bearing life.
8. Chrome-moly **crankshaft** provides unmatched strength and surface hardness for long life.
9. The patented stepped **piston rod** with hard chrome-plated sleeve provides a durable wear surface and easy wet-end servicing.
10. The **cylinder** and **sleeve** wear surfaces are hard chrome-plated stainless steel for longer service life.
11. The stainless steel **slinger** provides back-up protection for the crankcase oil seal, keeping pumped liquids out of the crankcase.
12. Die cast aluminum **crankcase** offers high strength, light weight, and excellent tolerance control. Optional cast iron.
13. Spherical **Quiet Valves** offer self-centering and positive seating. Stainless Steel valves, seats and springs provide corrosion resistance and extended service life.



Triplex Piston Pumps



Selecting a CAT PUMP

The following steps will simplify the selection of a CAT PUMP. CAT PUMPS are triplex reciprocating plunger or piston pumps. They deliver a specified amount of flow determined by the bore, stroke and RPM of the pump.

- ▶ **Frame Sizes** As the frame size increases, the bore and stroke increase, resulting in higher flow capacity through the CAT PUMP and higher horsepower.
- ▶ **Plunger Pumps** Chemical and wear resistant ceramic plungers reciprocate through static high and low pressure seals. CAT PUMPS plunger pumps handle high pressures, require little maintenance and have a variety of drive options meeting many demanding requirements.
- ▶ **Piston Pumps** Dynamic piston assemblies, Uniflow valve design and mechanically actuated inlet valves result in strong suction capabilities.
- ▶ **Manifold Material** Select a manifold material to match the liquid requirements. CAT PUMPS have a variety of materials to handle your requirements: Brass (BB), 304 Stainless Steel (S), 316 Stainless Steel (SS), Duplex Stainless Steel (SSD), 316 Stainless Steel Low Carbon (SSL) or Nickel Aluminum Bronze (NAB). For hi-temp or low-lubricity liquids select the block-style or special flushed version (SSL Flushed). See our Chemical Compatibility Guide under Service on the CAT PUMPS web site to aid in selecting your manifold material.
- ▶ **Drive Type** CAT PUMPS are known for their drive-end durability and dependability. We offer a variety of drive types to meet your requirements. Belt driven, clutch, direct-drive and gearbox for gas or diesel engines, electric motors, or hydraulic power sources are available.

Click and Find for Our Full Line of Piston and Plunger Pumps

www.catpumps.com

The quickest way to find a CAT PUMP is with a mouse. Our web site is easy to navigate and quick to satisfy your pump needs. If you are new to CAT PUMPS and not sure which model is right for you, visit our web site Product Selector. Click on "Pump Selector", then enter your flow rate, pressure, drive-type, and material of construction. Several pump options will be provided. You will then be able to view each of these pump data sheets and coordinating system accessories and add your selection to a shopping list to request a quote.



Mid-Frame Heavy-Duty Piston Pumps

*Superior
Suction
Capability
and Extreme
Durability*



Model 820



280



323, 390



430

3, 4, 5, AND 10 FRAME TRIPLEX PISTON PUMP SELECTION

PUMP MODEL	Flow GPM (L/M)	Pressure PSI (BAR)	Manifold Material	Horsepower HP (kW)	RPM	Drive Type
3 Frame						
280	3.0 (11.4)	100 to 1000 (7 to 70)	Brass	2.1 (1.6)	1330	Belt
281	3.0 (11.4)	100 to 1000 (7 to 70)	SS	2.1 (1.6)	1330	Belt
290	3.5 (13.2)	100 to 1200 (7 to 85)	Brass	2.9 (2.2)	1200	Belt
291	3.5 (13.2)	100 to 1200 (7 to 85)	SS	2.9 (2.2)	1200	Belt
4 Frame						
333	4.0 (15.0)	100 to 1200 (7 to 85)	Brass	3.3 (2.4)	1070	Belt
331	4.0 (15.0)	100 to 1200 (7 to 85)	SS	3.3 (2.4)	1070	Belt
430	5.0 (19.0)	100 to 1000 (7 to 70)	Brass	3.4 (2.5)	1040	Belt
431	5.0 (19.0)	100 to 1000 (7 to 70)	SS	3.4 (2.5)	1040	Belt
5 Frame						
323	5.0 (19.0)	100 to 1500 (7 to 105)	Brass	5.1 (3.8)	1000	Belt
390	12.0 (45.0)	100 to 600 (7 to 40)	Brass	4.9 (3.6)	1200	Belt
10 Frame						
623	6.0 (23.0)	100 to 1200 (7 to 85)	Brass	4.9 (3.6)	850	Belt
621	6.0 (23.0)	100 to 1200 (7 to 85)	SS	4.9 (3.6)	850	Belt
820	10.0 (38.0)	100 to 1000 (7 to 70)	Brass	6.9 (5.1)	940	Belt
821	10.0 (38.0)	100 to 1000 (7 to 70)	SS	6.9 (5.1)	940	Belt
1010	13.0 (49.0)	100 to 700 (7 to 50)	Brass	6.2 (4.6)	900	Belt
1011	13.0 (49.0)	100 to 700 (7 to 50)	SS	6.2 (4.6)	900	Belt

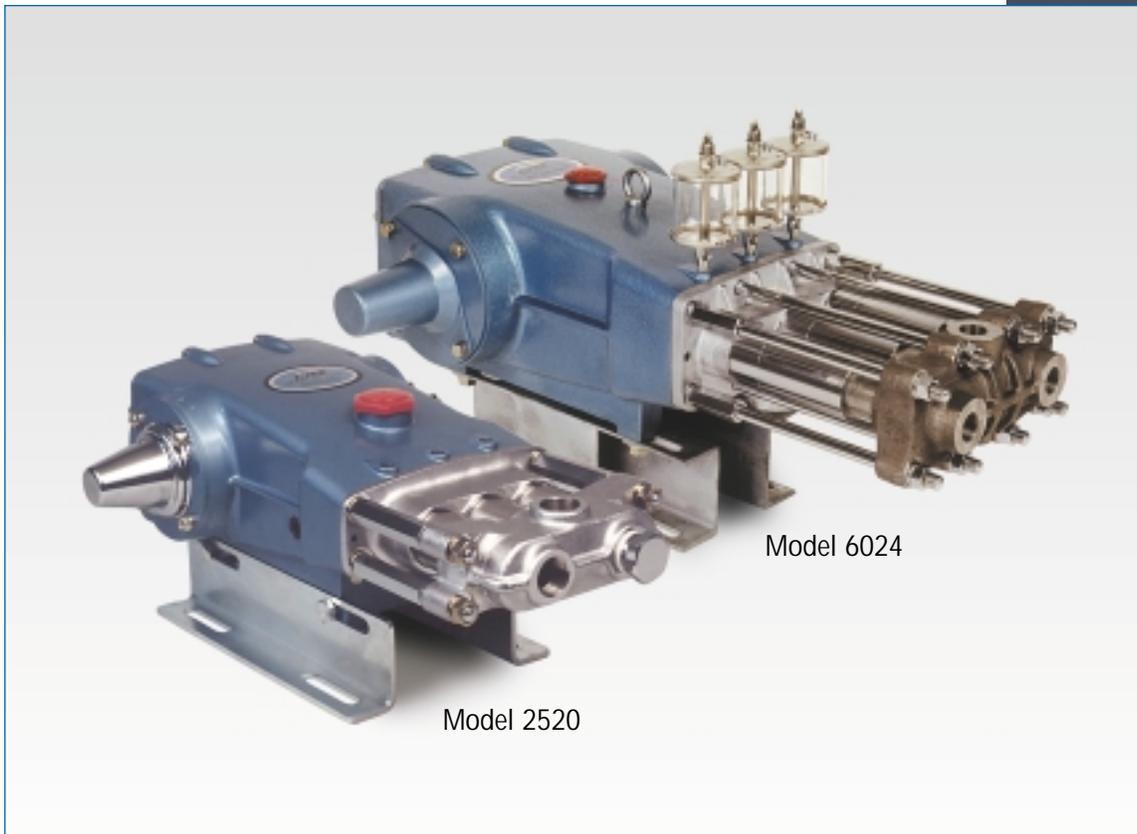
NOTE: SS=316 stainless steel manifolds, standard chromeplated 304 stainless steel cylinder and sleeves and 304 stainless steel valves and seats.

Detailed Data Sheets are available for each model at www.catpumps.com/data-sheets/pump-parts-lists.



Large Frame Industrial-Duty Piston Pumps

*High Flow
with
Excellent
Suction
Capability*



25 AND 60 FRAME TRIPLEX PISTON PUMP SELECTION

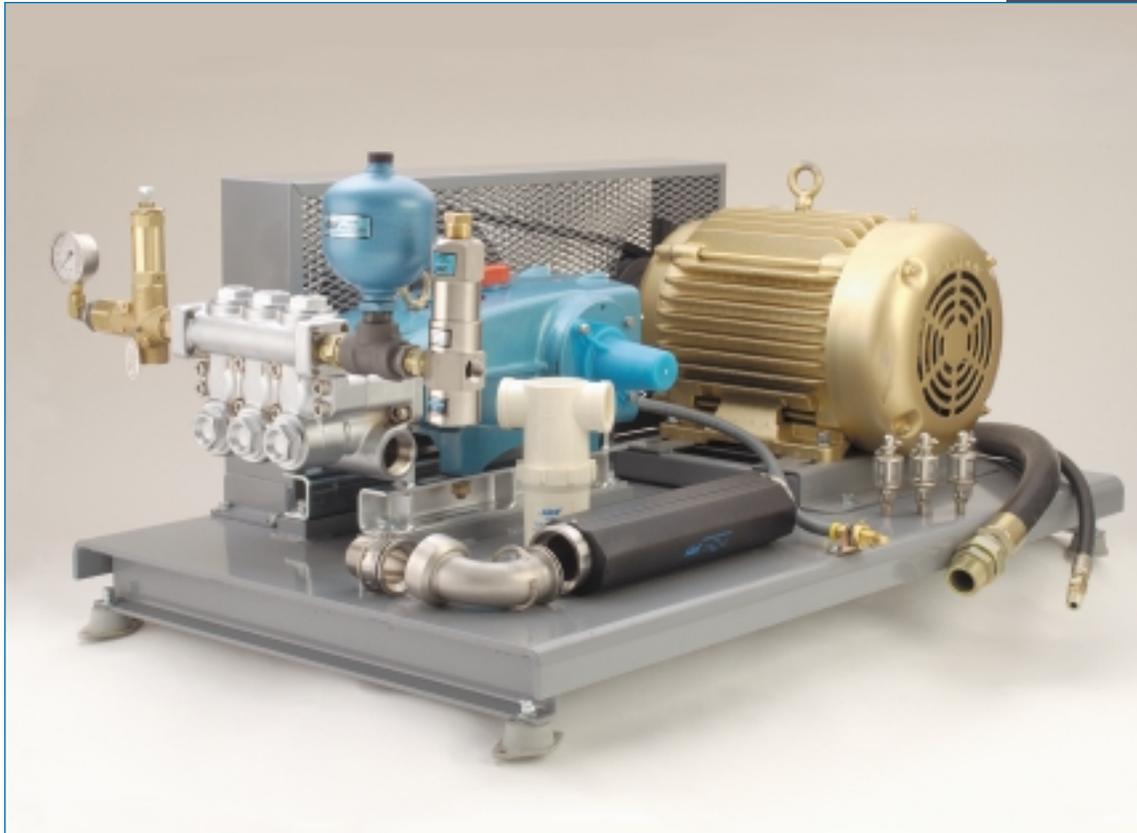
PUMP MODEL	Flow		Pressure		Manifold Material	Horsepower		RPM	Drive Type
	GPM	(L/M)	PSI	(BAR)		HP	(kW)		
25 Frame									
1020	10.0	(38.0)	100 to 1200	(7 to 85)	Brass	8.2	(6.1)	720	Belt
1520	15.0	(57.0)	100 to 1000	(7 to 70)	Brass	10.3	(7.7)	830	Belt
1521	15.0	(57.0)	100 to 1000	(7 to 70)	SS	10.3	(7.7)	830	Belt
2520	25.0	(95.0)	100 to 800	(7 to 55)	Brass	13.7	(10.2)	772	Belt
2521	25.0	(95.0)	100 to 800	(7 to 55)	SS	13.7	(10.2)	772	Belt
2520C	25.0	(95.0)	100 to 800	(7 to 55)	Brass	13.7	(10.2)	772	Belt
60 Frame									
6020	60.0	(227.0)	100 to 1000	(7 to 70)	Brass	41.1	(30.6)	500	Belt
6021	60.0	(227.0)	100 to 1000	(7 to 70)	SS	41.1	(30.6)	500	Belt
6024	12.0	(45.0)	100 to 5000	(7 to 345)	Brass/SS	41.1	(30.6)	500	Belt
6040	40.0	(151.0)	100 to 1500	(7 to 105)	Brass	41.1	(30.6)	500	Belt
6041	40.0	(151.0)	100 to 1500	(7 to 105)	SS	41.1	(30.6)	500	Belt
6044	20.0	(76.0)	100 to 3000	(7 to 210)	Brass/SS	41.1	(30.6)	500	Belt

NOTE: SS=316 stainless steel manifolds, standard chromeplated 304 stainless steel cylinder and sleeves and 304 stainless steel valves and seats.

Detailed Data Sheets are available for each model at www.catpumps.com/data_sheets/pump_parts_lists.

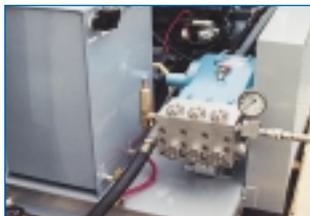


Customized Industrial Duty Power Units



*Fully
Engineered
Customer
Specified
Packages*

Custom Power Units offer the convenience of a professionally engineered and tested assembled package eliminating design, sourcing, fabrication and testing from your schedule. Most Power Units are available for shipment in 4-6 weeks. Let us help you design your next high pressure system. Complete our Power Unit quotation form on our [web site](#) under Power Units or in the **Power Unit Brochure**.



- ▶ Heavy-duty horizontal or stacked base for maximum weight load and minimum flexing.
- ▶ Heavy-duty bolt-down shock mounts provide easy leveling and shock absorption.
- ▶ Flexible drive options including 50 or 60Hz electric motor, variable frequency drive, gas or diesel engines, or hydraulic motor drives.
- ▶ Primary pressure regulating valve and secondary safety relief valve provide system pressure setting and protection.
- ▶ Captive acceleration tube (C.A.T.) to minimize inlet surging, spikes and cavitation.
- ▶ Bladder type, nitrogen pre-charged pulsation dampeners increase the life of the pump and system components.
- ▶ System options such as handle and wheels for portability, custom paint, enclosures, and additional system accessories are available.

