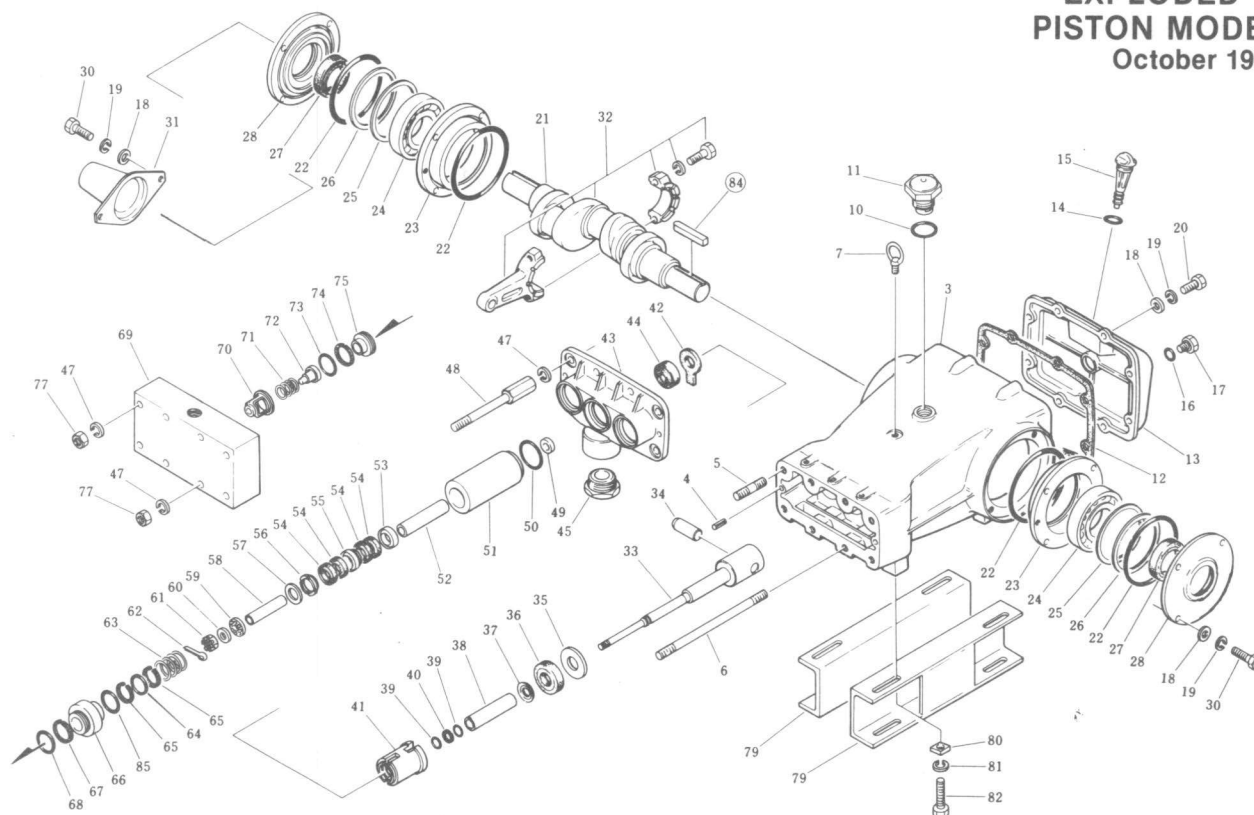


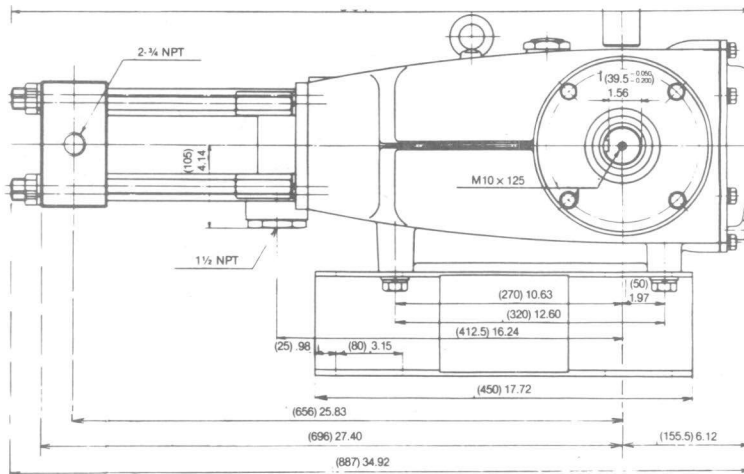
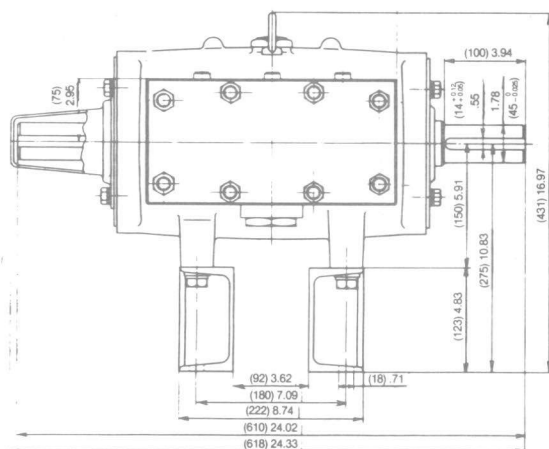
EXPLODED VIEW PISTON MODEL 6560 October 1983



PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
3	43284	Crankcase	1	47	12504	Split Lock Washer (M16)	12
4	43282	Guide Pin	2	48 ●	43018	Cylinder Bolt	4
5	85449	Stud (M16 x 70)	4	49 ●	44180	Inlet Valve	3
6	88901	Stud (M16x425)	4	50	12392	O-Ring, Packing Case (Buna-N)	3
7	29726	Eye Bolt	1	51 ●	44174	Packing Case	3
10	14177	O-Ring, Oil Filler Cap (Buna-N)	1	52 ●	44181	Piston (Slv. Type) (Ceramic Coated)	3
11	43211	Oil Filler Cap	1	53 ●	44175	Female Adapter	3
12	29439	Cover Seal	1	54	43589	V-Packing (Teflon Compound)	12
13	29438	Crankcase Cover	1	55 ●	44176	Adapter	3
14	11338	O-Ring, Oil Gauge (Buna-N)	1	56	43590	Male Adapter	3
15	27769	Oil Gauge	1	57 ●	44177	Washer	3
16	23170	O-Ring, Drain Plug (Buna-N)	1	58 ●	44182	Spacer (Sleeve Type)	3
17	25625	Drain Plug	1	59 ●	44183	Piston Retainer	3
18	12490	Washer (M10)	16	60	26994	Conical Washer-SS (M7)	3
19	12503	Lock Washer (M10)	16	61	26546	Slotted Nut-SS (M7)	3
20	80288	Hex Cap Screw (M10 x 30)	8	62	14158	Cotter Pin (M7)	3
21	29440	Crankshaft	1	63 ●	44178	Spring	3
22	29444	O-Ring (Buna-N)	4	64 ●	44209	O-Ring (Buna-N)	3
23	29442	Oil Seal Case (Inner)	2	65 ●	43538	Back-Up Ring (Teflon)	3
24	29441	Bearing	2	66 ●	44179	Adapter	3
25 ●	43642	Washer	0-2	67 ●	44210	Back-Up Ring (Nylon)	3
26 ●	43643	Washer	0-2	68 ●	44208	O-Ring (Buna-N)	3
27	11443	Oil Seal (Buna-N)	2	69 ●	44188	Discharge Manifold	1
28	29443	Oil Seal Case (Outer)	2	70 ●	44187	Valve Spring Retainer	3
30	80296	Hex Cap Screw (M10 x 40)	8	71 ●	44186	Valve Spring	3
31	29445	Shaft Protector	1	72 ●	44185	Discharge Valve	3
32	29447	Connecting Rod	3	73 ●	44214	O-Ring D.V.S. (Buna-N)	3
33 ●	44172	Piston Rod Assembly	3	74 ●	44215	Back-Up Ring D.V.S. (Nylon)	3
34	29481	Piston Pin	3	75 ●	44184	Discharge Valve Seat	3
35	29453	Washer	3	77	88853	Hex Nut	8
36	29454	Oil Seal (Buna-N)	3	79	29477	Angle Rail	2
37	29340	Barrier Slinger	3	80	29649	Square Washer (M16)	4
38 ●	44245	Sleeve	3	81	12504	Spring Washer (M16)	4
39 ●	44212	O-Ring, Sleeve (Buna-N-90)	6	82	82462	Hex Head Screw (M16 x 45)	4
40 ●	44213	Back-Up Ring Sleeve (Nylon)	3	85 ●	13503	O-Ring, Adapter (Teflon)	3
41	29456	Seal Retainer-Aluminum	3		43029	Oiler	3
42	43136	Wick	3		*43048	Key	1
43	43283	Inlet Manifold	1		*30636	Hub & Key	
44	43130	Seal (Buna-N)	3				
	43132	Seal (Viton)	3				
45 ●	44195	Inlet Fitting	1				

* Optional components not included with pump.
 ● These parts exclusive with Model 6560.
 Other items interchangeable with 60 FR pumps.



HORSEPOWER REQUIREMENTS

Flow		PRESSURE			Pump RPM
		PSI 6000	PSI 8000	PSI 10000	
GPM	L/M	BAR 420	BAR 560	BAR 700	
6.3	24	26.0	34.6	43.3	500
5.0	19	20.6	27.5	34.4	397
4.0	15	16.5	22.0	27.5	318

DETERMINING THE PUMP R.P.M. OR G.P.M.

$$\text{Max. Rated G.P.M.} = \frac{\text{"Desired" G.P.M.}}{\text{Max. Rated R.P.M.}}$$

$$\text{Max. Rated R.P.M.} = \frac{\text{"Desired" R.P.M.}}{\text{Max. Rated G.P.M.}}$$

DETERMINING THE REQUIRED H.P.

$$\frac{\text{GPM} \times \text{PSI}}{1460} = \frac{\text{"Electric Brake" Horsepower Required}}{\text{Horsepower Required}}$$

DETERMINING MOTOR PULLEY SIZE

$$\text{Pump Pulley O.D.} = \frac{\text{"Motor Pulley O.D."}}{\text{Motor R.P.M.}}$$

$$\text{Motor R.P.M.} = \frac{\text{Pump R.P.M.}}{\text{Motor R.P.M.}}$$

Note: Consult engine manufacturer when using gas or diesel engine

SPECIFICATIONS

	U.S. Measure	Metric Measure
Volume	6.3 G.P.M.	(24 L/M)
Discharge Pressure	10,000 P.S.I.	(700 BAR)
Max. Inlet Pressure	- 8.5 to 40 P.S.I.	(- 0.6 to 2.8 BAR)
RPM	500 RPM	(500 RPM)
Bore	0.708"	(18 mm)
Stroke	2.519"	(64 mm)
Crankcase Capacity	10 Qts.	(9.46 L)
Maximum Fluid Temperature	140°F	(60°C)
Inlet Ports (2)	1 1/2" NPT	(1 1/2" NPT)
Discharge Ports (2)	3/4" NPT	(3/4" NPT)
Pulley Mounting	Either side	(Either side)
Shaft Diameter	1.772"	(45 mm)
Weight	309 lbs.	(140 kg)
Dimensions	34.9" x 24.3" x 17.0"	(887 x 618 x 431 mm)

TYPICAL INSTALLATION

The illustration at the right shows the basic elements for the proper installation of a high pressure pump. Each component offers potential problems that too often are ascribed to a perfectly functioning pump. A clogged strainer, a partially closed shut-off valve or a faulty pressure gauge or pressure regulating unloader may be the source of trouble.

Proper system installation, routine lubrication and monitoring of components are your best guarantees of optimum pump performance. These precautions will eliminate most problems, minimize corrective maintenance, and give many, many added hours of trouble free operation. Cat Pumps Corporation does not assure any liability or responsibility for the operation of a customer's high pressure system.

