

Model P35

Triplex Ceramic
Plunger Pump
Operating Instructions/
Repair, and Service
Manual



GIANT

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MODEL P35 TRIPLEX CERAMIC PLUNGER PUMP

Inlet Pressure	Up to 90 P.S.I.
Volume	Up to 4.1 G.P.M.
Discharge Pressure	Up to 1600 P.S.I.
R.P.M.	Up to 1725 R.P.M.
Plunger	18 MM
Crankcase Capacity	8 fl. oz.
Temperature of Pumped Fluids	Up to 160°F*
Inlet Port	(1) 1/2" N.P.T.
Discharge Port	(2) 3/8" N.P.T.
Pulley Mtg.	Either Side
Shaft Rotation	to of pulley toward head
Weight	11½ lbs.
Width	8.66"
Height	4.21"
Length	9.37"
Crankshaft Diameter	18 MM

*For temperatures higher than stated, consult factory.

P35 PULLEY SELECTION*			
Pump Pulley	Motor Pulley	R.P.M.	G.P.M.
7.75"	4.45"	955	2.1
7.75"	4.95"	1070	2.4
7.75"	5.25"	1140	2.6
7.75"	5.75"	1260	2.9
7.75"	6.45"	1420	3.3
7.75"	6.95"	1540	3.7
7.75"	7.75"	1725	4.1

*Pulley Selection based on 1725 R.P.M. Electric Motor with "B" Section Belts.

*Pump speed and pump output in gallons per minute based on use with a 1725 R.P.M. motor. Select motor pulley size to give desired pump output. Various other pulley sizes are available from Giant Products Co. upon request.

1. Select G.P.M. required then select appropriate motor pulley from same line.

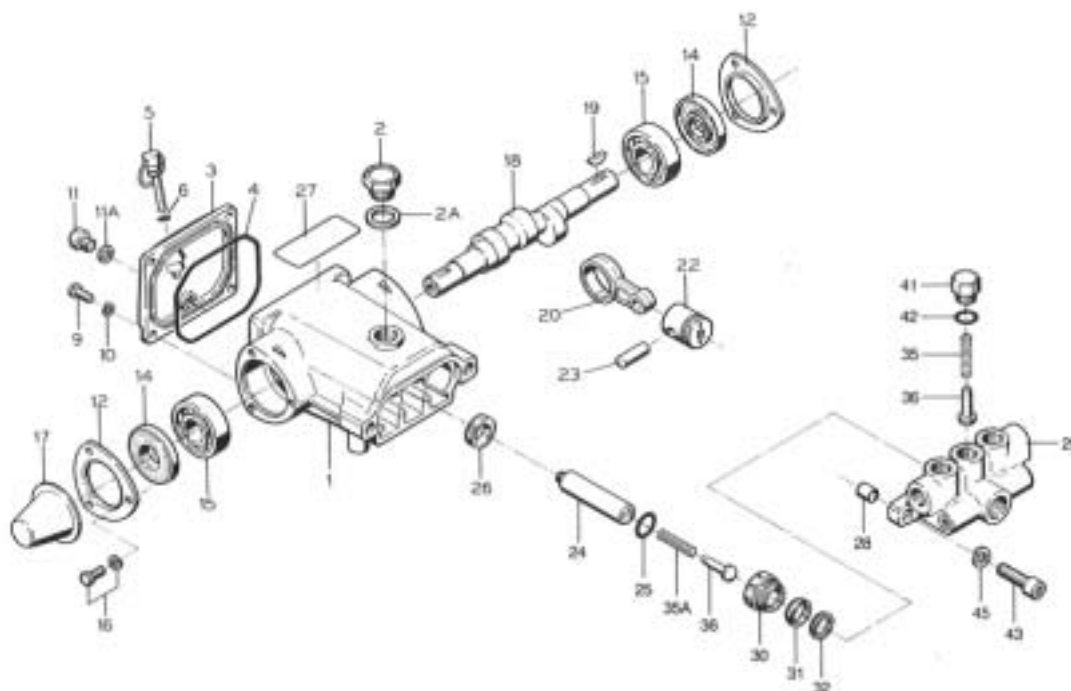
2. The pressure desired is determined by using correct nozzle size to the P.S.I. you require.

HORSEPOWER REQUIREMENTS*												
GPM	500 PSI	600 PSI	700 PSI	800 PSI	900 PSI	1000 PSI	1100 PSI	1200 PSI	1300 PSI	1400 PSI	1500 PSI	1600 PSI
2.1	.7	.8	1.0	1.1	1.2	1.4	1.5	1.6	1.8	1.9	2.0	2.2
2.4	.8	.9	1.1	1.3	1.4	1.6	1.7	1.9	2.0	2.2	2.3	2.5
2.6	.9	1.0	1.2	1.4	1.5	1.7	1.9	2.0	2.2	2.4	2.5	2.7
2.9	1.0	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.8	3.0
3.3	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.2	3.4
3.7	1.2	1.4	1.7	1.9	2.2	2.4	2.6	2.9	3.1	3.4	3.6	3.8
4.1	1.3	1.6	1.9	2.1	2.4	2.7	2.9	—	—	—	—	—

*Horsepower ratings shown are for electric motors only.

Gas engines require approximately twice the horsepower ratings shown.

$$\text{Horsepower Formula} = \frac{\text{GPM} \times \text{PSI}}{1542.6} = \text{h.p.}$$



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To avoid confusion and possible delays when placing an order, always specify the PART NUMBER and DESCRIPTION, plus the MODEL NUMBER of your pump. All parts are available either from your dealer or direct from the factory.

To find the correct part number, first locate the part in the exploded view to get the reference number. Then, using the reference number, find the corresponding part number in the parts list.

P35 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	07222	Crankcase	1	20	08024	Connecting Rod	3
2	07181	Oil Fill Cap	1	22	02001	Crosshead, Sold w/Item #24	3
2A	07182	Gasket, Oil Fill Cap	1	23	01031	Pin, Crosshead	3
3	08004	Crankcase Cover	1	24	07367	Plunger, Sold Only w/Item #22	3
4	08005	"O" Ring, Crankcase Cover	1	25	07205	Finger	3
5	08008	Oil Dipstick, Sold Only w/Item #2	1	26	07206	Crankcase Seal	3
6	01009	"O" Ring, Oil Dipstick	1	28	07207	Shim, Manifold Stud	2
9	07188	Screw, Crankcase Cover	4	29	07376	Manifold	1
10	07223	Spring Washer, Cover Screw	4	30	07377	Retainer, V-Sleeve	3
11	08012	Oil Drain Plug	1	31	07378	V-Sleeve	3
11A	08013	Gasket, Oil Drain Plug	1	32	07231	Support Ring	3
12	07224	Bearing Cover	2	35	07365	Spring, Discharge	3
14	08015	Seal, Crankshaft	2	35A	07374	Spring, Inlet	3
15	08020	Ball Bearing	2	36	07375	Valve Cone	6
16	07225	Screw w/Washer, Bearing Cover	6	41	07379	Plug, Manifold	3
17	07226	Shaft Protector	1	42	12007	"O" Ring, Manifold Plug	3
18	08050	Crankshaft P35	1	43	07381	Bolt, Manifold	2
19	01024	Key	1	45	08041	Spring Washer	2

*The vent in the oil dipstick has been eliminated on later model pumps. Therefore, when replacing the oil dipstick, the oil fill cap must be replaced with the new vented style.

P35 Repair Kits

Part #09093
Plunger Packing Kit P35
3-07378 V-Sleeve

Part #09094
Discharge Valve Assembly Kit
3-07375 Valve Cone
3-07373 Spring, Discharge
3-12007 "O" Ring, Manifold
Plug

Part #09095
Inlet Valve Assembly Kit
3-07375 Valve Cone
3-07374 Spring, Inlet

Part #09096
Plunger Assembly Kit
3-07367 Plunger w/crosshead
3-07206 Crankcase Seal
3-07209 Finger