

GP7124A-4000

1. Performance

	U.S.	Metric
Volume.....	12.8 GPM	48.4 L/min
Discharge Pressure	7400 PSI.....	510 Bar
Inlet Pressure*	-4.35 to 58 PSI*	-0.3 to 4 Bar*
Speed		750 RPM
Plunger Diameter.....	0.94”	24mm
Plunger Stroke.....	2.05”	52mm
Crankshaft Diameter.....	1.9”	48mm
Key Width	0.55”	14mm
Crankshaft Mounting		Either side
Shaft Rotation.....		Top of pulley towards manifold
Temperature of Pumped Fluids	Up to 140° F	60° C
Inlet Ports		(2) 1 1/4” NPT
Discharge Ports		(2) 3/4” NPT
Weight	454 lbs.	206 kg
Crankcase Oil Capacity	1.7 Gallons	6.5 Liters
Fluid End Material.....		Stainless Steel
Volumetric Efficiency @ 700 RPM.....		89%
Mechanical Efficiency @ 700 RPM		83%

***Positive inlet pressures are recommended**

1) Figures given for maximum pressure and maximum speed (rpm) apply to intermittent operation with cold water. When the pump is used in continuous operation and/or with water warmer than 100 °F (40°C), these values must be reduced by 10%.

Performance data for intermittent operation, data for continuous operation on request. For information on intermittent operation and calculating of the performance data, see the Giant Industries assembly instructions.

NPSHR / Inlet pressure

Required NPSH refers to water at 68 °F (20 °C) at maximum permissible pump speed.
The inlet pressure on the suction side must not exceed 145 PSI (10 bar).

Level of noise emission

Emission sound pressure level: ≤ 93 dB(A)

2. Fields of application

The fields of application of these pump types correspond to the specifications in the assembly instructions
GIANT INDUSTRIES.

Ambient conditions

Ambient temperature: 36 °F (2 °C) < T_{Amb.} < 86 °F (30 °C)

4. Oil filling

- Filling quantity: **1.7 gal (6.5 L)**
- Quality: Industrial gear oil **ISO VG 220** or automotive gear oil **SAE 90 GL4 - Giant's p/n 01154**
- Intervals: First oil change after **50 operating hours** then every **1000 operating hours**, but at the latest **12 months**

GP7124A-4000 HORSEPOWER REQUIREMENTS					
RPM	GPM	5000 PSI	6000 PSI	7000 PSI	7400 PSI
400	6.8	23.5	28.3	32.8	34.7
550	9.4	32.4	38.9	45.4	48.0
600	10.2	35.2	42.2	49.2	52.1
650	11.1	38.3	45.9	53.6	56.7
700	12.0	41.4	49.7	57.9	61.2
750	12.8	44.1	53.0	61.8	65.3

6. Installation/Putting into Operation

6.1 Shaft protector

When the pump is in operation, the open shaft end must be covered up by shaft protector (21), the driven shaft side and coupling by a bell housing and the plunger room by cover (30).

6.2 Direction of pump rotation

Set the direction of rotation of the drive unit according to the direction of rotation arrow on the crankcase.

6.3 Suction line filter

Recommended mesh size 50 µm

7. Operation

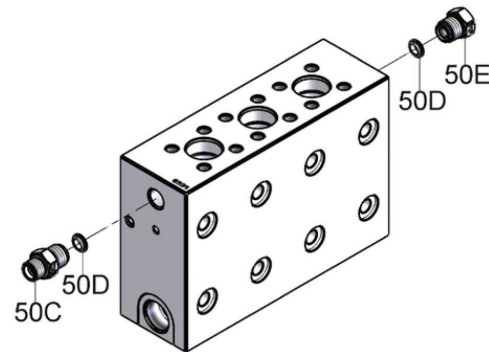
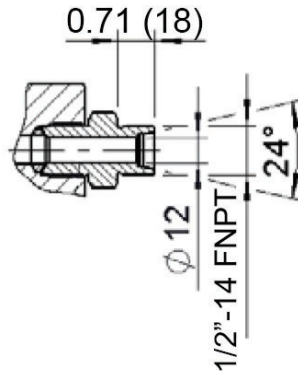
The maximum operating pressure can be used in the speed range of 750 RPM. When reducing the speed, the pump pressure must be reduced in the same proportion to ensure sufficient gearbox lubrication.

7.1 Discharge Line

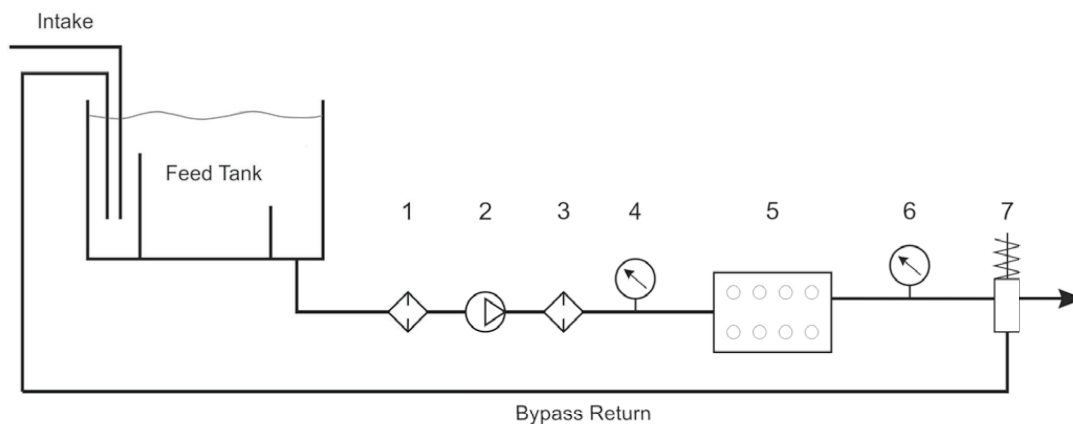
The pump comes with two special conical seals (50D) which have to be inserted in to the discharge ports of the pump. One of the two ports is to be closed with the included plug (50E).

To install the pressure line, the connection nipple (50C) with the external thread 1/2"-14 FNPT must be used. This together with the sealing cone (50D) seals the pressure line.

Fitting-07.6165
EO-24°, ähnl. 16-S
DIN EN ISO 8434-1



Hydraulic System Set-Up



1 = Coarse filter
2 = Booster pump
3 = Fine-particle filter
4 = Gauge to check input pressure

5 = High pressure pump
6 = High pressure gauge
7 = Excess, Safety valve