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High Pressure Equipment
A **GRACO** Company

T-Series Pumps

High Performance
Air Driven Liquid Pumps



T-Series

High Performance Air Driven Liquid Pumps

High Pressure Equipment's T-Series pneumatically operated liquid pumps have been engineered to provide an extremely safe, reliable and durable hydraulic power source for applications up to 68,000 psi (4,688 bar). Combining HiP's high pressure expertise with Graco's extensive pump engineering background, T-Series pumps address many of the shortcomings commonly found in today's air-driven liquid pumps. Premium T-Series pumps are built to run at their maximum rated pressure and feature a robust motor and seal design that delivers a long service life. In addition, these pumps do not require a lubricated air source and incorporate several features to facilitate easy installation and service.

HiP T-Series pumps achieve a "bubble tight" pressure stall that can be used for high pressure applications such as bolt tensioning, pressure testing, power pressing, jacking, lifting, hydraulic power units, proof testing components, valve actuation and many more.



Why a T-Series Pump?

Merkur Air Motor from Graco

- One of the highest technology air motors on the market
- Low air consumption for increased efficiency
- Proven technology with over 10 years in the market
- Heavy duty muffler provides low operating sound levels
- External valve access allows for easy servicing to help minimize downtime

Heavy Duty Operation

- Pump can achieve the maximum working pressure time and time again unlike intermittent duty rated pumps
- No need for additional mufflers
- Severe duty plunger seal for less downtime

Easy to Service

- Can service air motor shuttle valve without disassembling the pump
- Quick and easy access to plunger seals
- Minimal tools required

Robust Design

- Separated pump air section helps prevent fluid leaks into air motor
- Inlet/outlet connections match pipe connections
- Bubble tight checks

Approvals



II 2 G Ex h IIA T6 Gb

NOTE: "h", Type of protection applied is
Constructional Safety "c".

T-Series Pump Features

GRACO MERKUR AIR MOTOR

Proven design with low air consumption for increased efficiency

EASY ACCESS CHANGE-OVER POPPETS

Cartridge design allows for quick repair

AIR VALVE

Does not require a lubricated air source and allows for a smooth and rapid changeover

GRACO DATATRAK COMPATIBLE

Accessory providing several benefits, (see below)

PUMP ASSEMBLY

Retaining ring allows for 360° rotation for easy installation and service

CHROMEX COATED PLUNGER

Provides for a longer service life

SAFETY

Pump is cycle tested at maximum rated pressure for life expectancy

SEPARATED FLUID SECTION

Increases safety and life by helping prevent fluid leaks into air motor

SEVERE DUTY PLUNGER SEAL

Robust design delivers extended seal life significantly outlasting competitive o-rings

CHECK VALVES

Range of connection sizes and pressures to match pump rating, including HP cone and thread outlet connections.



Optional T-Series Accessory

Graco Datatrak Electronic Monitoring System

- Stroke counter
- Cycle rate display
- Runaway protection

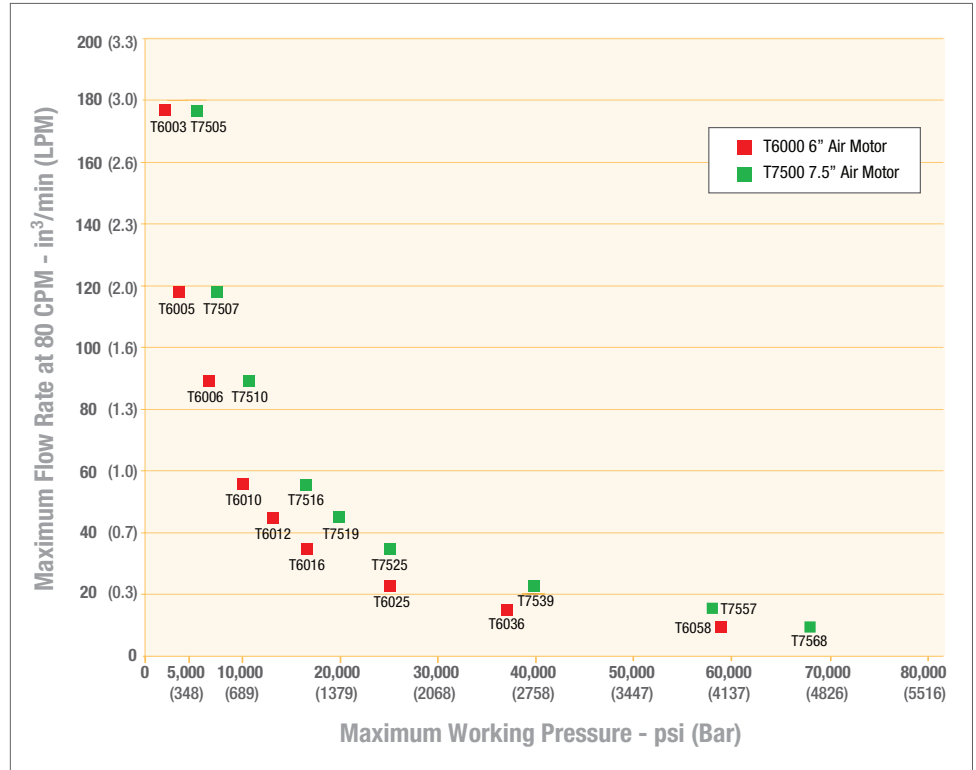
Performance & Applications



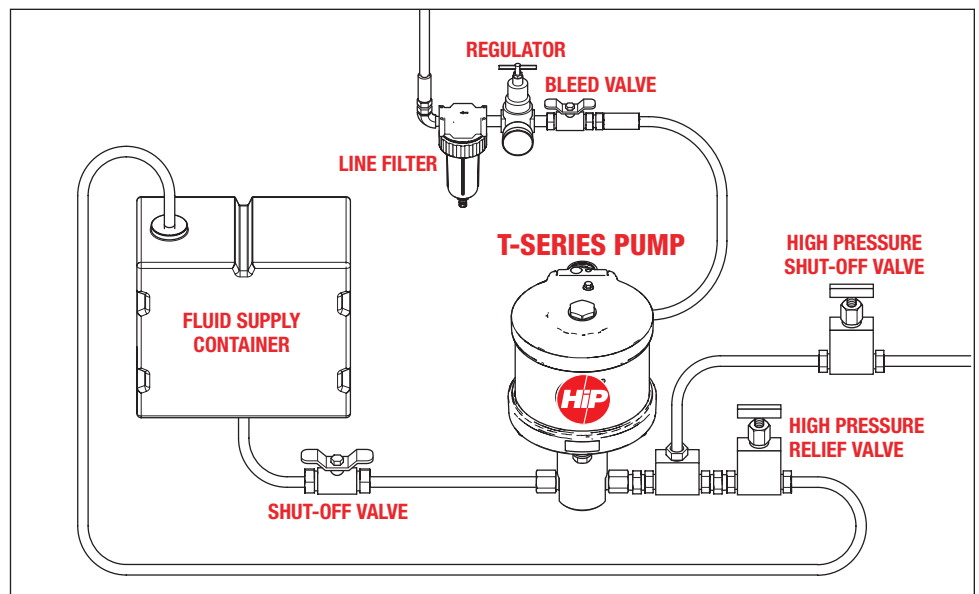
Applications

- Bolt Tensioning
- Pressure testing
- Work holding and clamping
- Jacking and lifting
- Power pressing
- Hydraulic power units
- Valve actuation
- Proof testing components
- Hydraulic cylinder actuation
- Chromatography
- Lubrication and spraying
- Liquefied gas transfer

T-Series Pump Maximum Pressure & Flow Ratings



Typical Installation



NOTE: T-Series Pump is the only item supplied by HiP with order of pump. All other components are available from HiP to be ordered separately.



T6000 Series Pumps

Features

- 6 inch air cylinder
- Available in 9 different pump ratios
- 2.5 inch pump stroke
- Maximum operating pressure of 58,000 psi (4000 bar)
- Maximum flow rate of 177 in³/min (2.9 lpm) at 80 CPM
- Inlet air pressure 15 psi to 100 psi (1 to 7 bar)
- Four different plunger seal materials

** 80 CPM recommended for optimal pump seal life*

Part Number	Model	Ratio	Seal Material	Maximum Working Pressure psi (Mpa, bar)	Maximum Pneumatic Inlet Pressure psi (Mpa, bar)	Displacement per Stroke in3 (ml)
T6058-576-NBR-00	T6058	576:1	NBR	58,000 (400, 4000)	100 (0.69, 6.9)	0.12 (2.0)
T6058-576-FKM-00			FKM			
T6058-576-FFKM-00			FFKM			
T6058-576-EPR-00			EPR			
T6036-365-NBR-00	T6036	365:1	NBR	36,500 (252, 2520)		0.19 (3.2)
T6036-365-FKM-00			FKM			
T6036-365-FFKM-00			FFKM			
T6036-365-EPR-00			EPR			
T6025-254-NBR-00	T6025	254:1	NBR	25,250 (175, 1750)		0.28 (4.5)
T6025-254-FKM-00			FKM			
T6025-254-FFKM-00			FFKM			
T6025-254-EPR-00			EPR			
T6016-163-NBR-00	T6016	163:1	NBR	16,250 (113, 1130)		0.43 (7.1)
T6016-163-FKM-00			FKM			
T6016-163-FFKM-00			FFKM			
T6016-163-EPR-00			EPR			
T6012-125-NBR-00	T6012	125:1	NBR	12,500 (87, 870)	0.56 (9.2)	
T6012-125-FKM-00			FKM			
T6012-125-FFKM-00			FFKM			
T6012-125-EPR-00			EPR			
T6010-101-NBR-00	T6010	101:1	NBR	10,000 (69, 690)	0.70 (11.5)	
T6010-101-FKM-00			FKM			
T6010-101-FFKM-00			FFKM			
T6010-101-EPR-00			EPR			
T6006-064-NBR-00	T6006	64:1	NBR	6,300 (44, 440)	1.11 (18.1)	
T6006-064-FKM-00			FKM			
T6006-064-FFKM-00			FFKM			
T6006-064-EPR-00			EPR			
T6005-047-NBR-00	T6005	47:1	NBR	4,800 (34, 340)	1.49 (24.4)	
T6005-047-FKM-00			FKM			
T6005-047-FFKM-00			FFKM			
T6005-047-EPR-00			EPR			
T6003-032-NBR-00	T6003	32:1	NBR	3,200 (23, 230)	2.20 (36.0)	
T6003-032-FKM-00			FKM			
T6003-032-FFKM-00			FFKM			
T6003-032-EPR-00			EPR			



T7500 Series Pumps

Features

- 7.5 inch air cylinder
- Available in 9 different pump ratios
- 2.5 inch pump stroke
- Maximum operating pressure of 68,000 psi (4690 bar)
- Maximum flow rate of 177 in³/min (2.9 lpm) at 80 CPM
- Inlet air pressure 15 psi to 100 psi (1 to 7 bar)
- Four different plunger seal materials

* 80 CPM recommended for optimal pump seal life

Part Number	Model	Ratio	Seal Material	Maximum Working Pressure psi (Mpa, bar)	Maximum Pneumatic Inlet Pressure psi (Mpa, bar)	Displacement per Stroke in3 (ml)
T7568-900-NBR-00	T7568	900:1	NBR	68,000 (469, 4690)	75 (0.5, 5)	0.12 (2.0)
T7568-900-FKM-00			FKM			
T7568-900-FFKM-00			FFKM			
T7568-900-EPR-00			EPR			
T7557-571-NBR-00	T7557	571:1	NBR	57,100 (394, 3940)	100 (0.69, 6.9)	0.19 (3.2)
T7557-571-FKM-00			FKM			
T7557-571-FFKM-00			FFKM			
T7557-571-EPR-00			EPR			
T7539-397-NBR-00	T7539	397:1	NBR	39,500 (273, 2730)		0.28 (4.5)
T7539-397-FKM-00			FKM			
T7539-397-FFKM-00			FFKM			
T7539-397-EPR-00			EPR			
T7525-255-NBR-00	T7525	255:1	NBR	25,500 (176, 1760)		0.43 (7.1)
T7525-255-FKM-00			FKM			
T7525-255-FFKM-00			FFKM			
T7525-255-EPR-00			EPR			
T7519-195-NBR-00	T7519	195:1	NBR	19,500 (135, 1350)		0.56 (9.2)
T7519-195-FKM-00			FKM			
T7519-195-FFKM-00			FFKM			
T7519-195-EPR-00			EPR			
T7516-158-NBR-00	T7516	158:1	NBR	15,750 (109, 1090)	0.70 (11.5)	
T7516-158-FKM-00			FKM			
T7516-158-FFKM-00			FFKM			
T7516-158-EPR-00			EPR			
T7510-100-NBR-00	T7510	100:1	NBR	10,000 (69, 690)	1.11 (18.1)	
T7510-100-FKM-00			FKM			
T7510-100-FFKM-00			FFKM			
T7510-100-EPR-00			EPR			
T7507-074-NBR-00	T7507	74:1	NBR	7,400 (52, 520)	1.49 (24.4)	
T7507-074-FKM-00			FKM			
T7507-074-FFKM-00			FFKM			
T7507-074-EPR-00			EPR			
T7505-050-NBR-00	T7505	50:1	NBR	5,000 (35, 350)	2.20 (36.0)	
T7505-050-FKM-00			FKM			
T7505-050-FFKM-00			FFKM			
T7505-050-EPR-00			EPR			

T-Series Pump Packaged Systems

HiP packaged hydraulic power systems using our new T-Series pumps are an excellent method to deliver high pressure hydraulic power to your field location. These turn-key systems only require a non-lubricated air supply to generate hydraulic power up to 68,000 psi and are designed for plain water or oil service. We offer several standard systems as well as custom power systems to satisfy your specific requirements. All HiP power packs are factory pressure tested prior to shipping.



Bolt-Tensioning Power Packs

HiP air operated bolt-tensioning power packs are compact and robust self-contained units designed for applications in offshore oil and gas industry, heavy construction, ship-building, wind farms and renewable energy, where reliable sources of hydraulic power are required.

Each power pack contains the pump complete with air filter, regulator, air gauge, on/off valve, hydraulic pressure gauge and gauge protective cover, outlet pressure connection block, release valve and interconnecting pipework.

Standard power packs are typically in-stock or available with a short lead-time. Custom power packs are available to meet your specific needs. Typical applications include hydrostatic testing, operation of hydraulic valve actuators, clamping and tensioning tools.

Optional Power Pack Extras

- Pressure isolation valve
- Circular chart pressure recorder
- Auxiliary pressure port
- Stroke counter with readout
- Stainless steel framework & hose tray
- ATEX approvals

NOTE: For custom power units and optional pump materials contact our factory with your requirements.



PT2020 Automated Pump Controller System

High Pressure Equipment Company introduces the first-of-its-kind Automated Controller System for air-driven high pressure hydraulic pumps. The PT2020 controller is designed to provide automated pressure control for a wide range of hydrostatic testing. Operators simply setup their test, press start and walk away... the PT2020 will automatically run the test, give a pass/fail reading and generate a test certification report.



Features

- Industry-first automated controller for manual air-driven hydraulic pumps
- Automated pressure control for hydrostatic testing
- Plug'n play upgrade for any manufacture pneumatic intensifier pump
- Five pressure classes: 10,000 psi • 25,000 psi, 40,000 psi • 60,000 psi • 75,000 psi
- Generates test certification reports
- Easy-to-use touch screen interface
- Simply setup test, hit start and walk away
- Highly accurate



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