



T-Series

High Performance Air Driven Liquid Pumps

1

High Pressure Equipment’s new 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.



Index

- Features..... 7-8
- Performance & Applications..... 9
- T6000 Series Pumps..... 10
- T7500 Series Pumps..... 11

T-Series Pump Features



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".

GRACO MERKUR AIR MOTOR

Proven design with low air consumption for increased efficiency

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)

EASY ACCESS CHANGE-OVER POPPETS

Cartridge design allows for quick repair

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 coned and threaded outlet connections

**Optional T-Series Accessory****Graco Datatrak Electronic Monitoring System**

- Stroke counter
- Cycle rate display
- Runaway protection

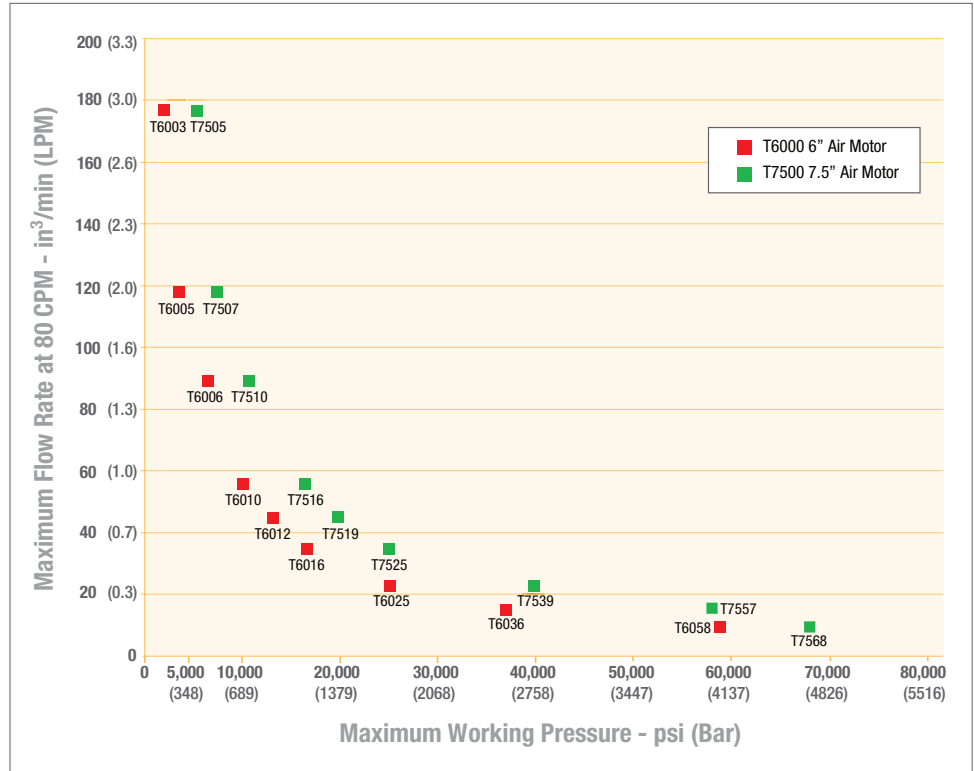
Performance & Applications



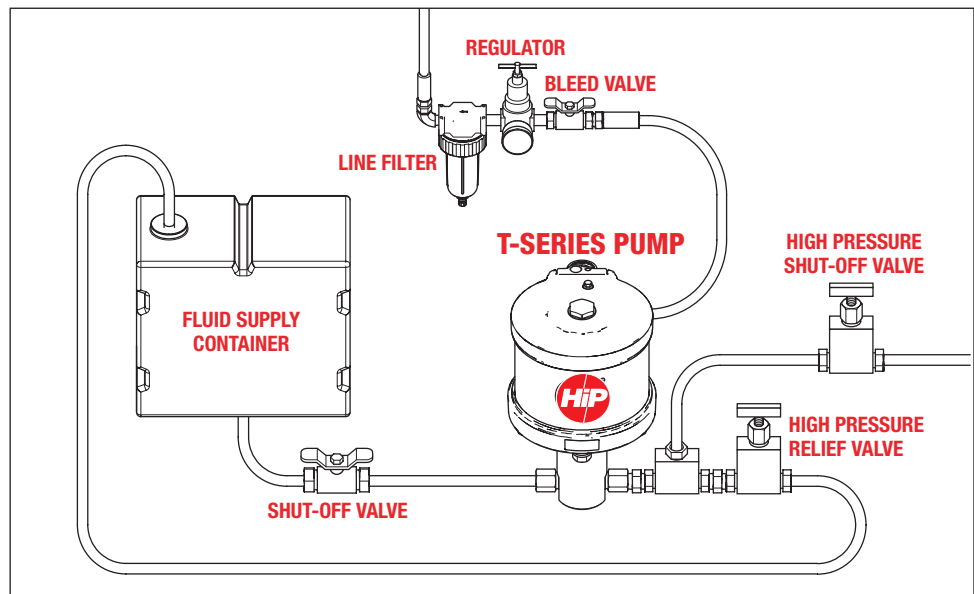
Applications

- 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-EPR-00			EPR									
T6036-365-NBR-00	T6036	365:1	NBR	36,500 (252, 2520)		100 (0.69, 6.9)	0.19 (3.2)					
T6036-365-EPR-00			EPR									
T6025-254-NBR-00	T6025	254:1	NBR	25,250 (175, 1750)			100 (0.69, 6.9)	0.28 (4.5)				
T6025-254-FKM-00			FKM									
T6025-254-EPR-00			EPR									
T6016-163-NBR-00	T6016	163:1	NBR	16,250 (113, 1130)				100 (0.69, 6.9)	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)					100 (0.69, 6.9)	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)						100 (0.69, 6.9)	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)							100 (0.69, 6.9)	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)								100 (0.69, 6.9)
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)	100 (0.69, 6.9)	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-EPR-00			EPR				
T7557-571-NBR-00	T7557	571:1	NBR	57,100 (394, 3940)		0.19 (3.2)	
T7557-571-EPR-00			EPR				
T7539-397-NBR-00	T7539	397:1	NBR	39,500 (273, 2730)		100 (0.69, 6.9)	0.28 (4.5)
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-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-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				