TI00 Series High Pressure

Maximum Flow Rate: 26 gpm (98.4 l/min) Maximum Pressure: 5000 psi (345 bar)



- Seal-less design eliminates leaks, hazards and the expense associated with seals and packing
- Low NPSH requirements allow for operation with a vacuum condition on the suction - positive suction pressure is not necessary
- Can operate with a closed or blocked suction line and run dry indefinitely without damage, eliminating downtime and repair costs
- Unique diaphragm design handles more abrasives with less wear than gear, screw or plunger pumps

- Hydraulically balanced diaphragms to handle high pressures with low stress
- Lower energy costs than centrifugal pumps
- Rugged construction for long life with minimal maintenance
- Compact design and double-ended shaft provide a variety of installation options



T100 Series High Pressure Performance

Capacities

Max.	Max. Flow @ 5000 psi (345 bar)	
Input		
rpm	gpm	l/min
450	26.0	98.4
	Max. Input rpm 450	Max. Max. Input @ 5000 ps rpm gpm 450 26.0

Consult factory when operating below 12 gpm (45.4 l/min).

Pressure

Maximum Inlet Pressure 500 psi (34 bar)

Maximum Discharge Pressure 5000 psi (345 bar)

Maximum Flow at Designated Pressure





T100 Series pumps feature the Hydra-Cell seal-less design, eliminating clean-up costs from leaking seals or packing and protecting operators from dangerous fluids such as those containing hydrogen sulfide.

Due to Wanner Engineering continuous improvement practices, performance data and specifications may change without notice.



TI00 Series High Pressure Specifications

Flow Capacities @5000 psi (345 bar)					
Model rp	m	gpm	l/min		
T100S 45	50	26.0	98.4		
Delivery					
Pressure psi (bar)		gal/rev	liters/rev		
500 (34)		0.066	0.249		
2500 (172)		0.063	0.237		
5000 (343)		0.059	0.222		
rpm					
Maximum:	45	50			
Minimum:	20	00 (Consult factory	for speeds less than 200 rpr	n	
Maximum Discharge	Pressu	re			
Metallic Heads:	5(000 psi (345 bar)			
Maximum Inlet Press	ure 50	00 psi (34 bar)			
Operating Temperatu	Jre				
Maximum:	18	30°F (82.2°C)			
Minimum:	4(D°F (4.4°C)			
Consult factory for te	emperatu	ures outside this ra	nge		
Maximum Solids Size	98	00 microns			
Input Shaft	Le	ft or Right Side			
Inlet Ports	2	inch Class 300 FF	ANSI Flange		
Discharge Ports]-	-1/4 inch Class 250	00 RTJ ANSI Flange		
Shaft Diameter	3	inch (76.2 mm)			
Shaft Rotation	Re	everse (bi-direction	al)		
Oil Capacity	18	3 US quarts (17 lite	ers)		
	1(<u> DW30 standard-du</u>	ty oil		
Weight	_				
Metallic Heads:		100 lbs. (499 kg)			
Fluid End Materials					
Manifold:		Nickel Aluminum	Bronze (NAB)		
Diaphragm/Elastom	ers:	FKM			
		Buna-N			
Diaphragm Follower Screw:		316 Stainless St	eel		
Valve Spring Retaine	er:	Polypropylene			
Check Valve Spring:		Elgiloy			
Valve Disc/Seat:		17-4 Stainless S	feel		
		Hastelloy C	1		
Outlet Valve Ketaine	r:	316 Stainless St	961		
Plug-Outlet Valve Po	ort:	316 Stainless St	961		
Inlet Valve Ketainer:		316 Stainless St	90I		
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Net Positive Suction Head (NPSHr)



Calculating Required Horsepower (kW)*

 $\frac{\text{gpm x psi}}{1,460} = \text{electric motor hp*}$ $\frac{\text{lpm x bar}}{511} = \text{electric motor kW*}$ * hp (kW) is required application power.

Attention!

When sizing motors with variable speed drives (VFD): It is very important to select a motor and a VFD rated for constant torque inverter duty service and that the motor is rated to meet the torque requirements of the pump throughout desired speed range.



T100 Series High Pressure Dimensions

Threaded Version Inches (mm)





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