T100 Series Low Pressure Models T100E, T100F & T100H

Maximum Flow Rate: 96 gpm (366.1 l/min) Maximum Pressure: 2100 psi (145 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



TI00 Series Low Pressure Performance

Capacities

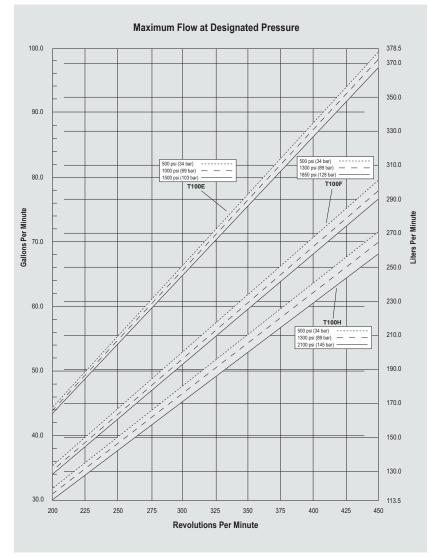
Flow			
	Max. Input	Max	. Flow
Model	rpm	gpm	l/min
		@ 1500 p	si (103 bar)
TIOOE	450	96.0	366.4
		@ 1850 p	si (128 bar)
TIOOF	450	76.5	289.6
		@ 2100 ps	si (145 bar)
T100H	450	68.0	257.8
Consult fact	ory when op	erating below 44	gpm (166.6 l/min).

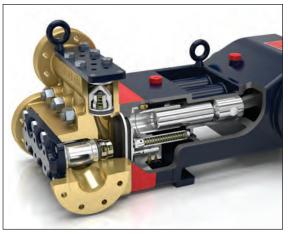
Pressure

Maximum Inlet Pressure 500 psi (34 bar)

Maximum	Discharge Pressure
T100E:	1500 psi (103 bar)
T100F:	1850 psi (128 bar)
T100H:	2100 psi (145 bar)







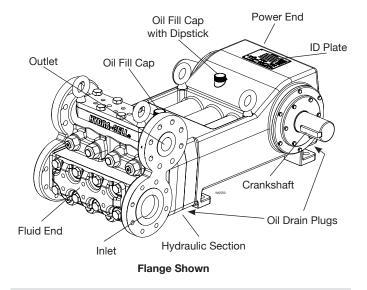
T100 Series pumps feature the Hydra-Cell seal-less design, eliminating clean-up costs from leaking seals or packing and protecting operators from dangerous fluids such as those containing hydrogen sulfide.

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

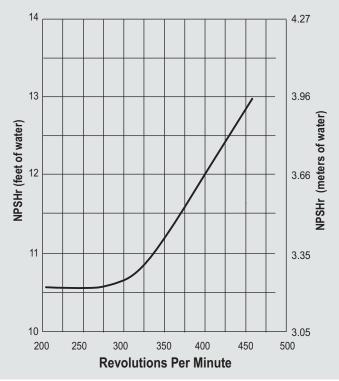


TI00 Series Low Pressure Specifications

Flow Capa					
Model	Pressure bo	ır (psi)	rpm	gpm	l/min
T100E	103 (15	00)	450	96.0	366.4
T100F	128 (18		450	76.5	289.6
T100H	145 (21		450	68.0	257.8
Delivery		/			
	psi (bar)		gal/rev	liters/rev	
500 (34)	psi (bui)		0.221	0.835	
1000 (69)			0.218	0.825	
1500 (10)			0.215	0.814	
	5)		0.215	0.014	
rpm Maximum:		450			
			Concult factory	for grande lose they	. 200
Minimum:			Consult factory	for speeds less that	1 ZUU rpm
	Discharge Pı		F 1500	(100)	
Metallic H	eads:	T100		psi (103 bar)	
		T100		psi (128 bar)	
		T100		psi (145 bar)	
	Inlet Pressu		psi (34 bar)		
	Temperature				
Maximum:			°F (82.2 °C)		
Minimum:			F (4.4°C)		
Consult	factory for tem			ange	
Maximum			microns	0	
Input Shaf	ł		or Right Side		
Inlet Ports				0 RF ANSI Flange	
Discharge	Ports		h Class 900 RF		
Shaft Dian			h (76.2 mm)	Third Flange	
Shaft Rota			rse (bi-direction	nal)	
Oil Capaci			S quarts (17 li		
on cupuci	'Y		30 standard-dı		
Weight		1000			
Metallic H	oade.	1100) lbs. (499 kg)		
Fluid End I		1100	7 IDS. (477 Ky)		
Manifol			Nickal Alumir	NAD	
Mannoi	0:			num Bronze (NAB)	
D: 1	/61		316L Stainles	ss Steel	
Diaphragm/Elastomers:		:	FKM		
- •			Buna-N		
	ıgm Follower So	rew:	316 Stainless		
Valve Spring Retainer:			17-4 Stainles	ss Steel	
			316 SST		
			Hastelloy C		
Check V	alve Spring:		Elgiloy		
Valve D	isc/Seat :		Tungsten Carl	bide	
			17-4 PH Stai		
			Hastelloy C		
Outlet \	/alve Retainer:		316 Stainless	s Steel	
Plug-Outlet Valve Port:			316 Stainless		
	lve Retainer:		316 Stainless		
Power End			5 i 5 5iulili63.	5 51001	
Cranksh		Fornod (&T Alloy Steel		
	ing Rods:	Ductile I			
Crosshe		12L14 S			
Crankca		Ductile I			
Bearing	S:		I Roller/Journa		
			cked Babbit (c	rankpin)	
		Bronze (wristpin)		



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.

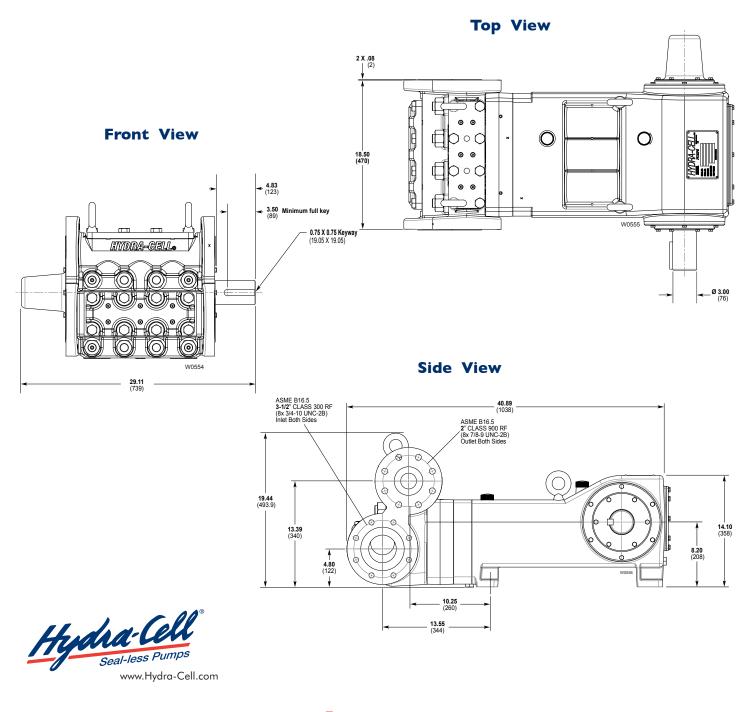
Attention!

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.



TI00 Series Low Pressure Dimensions

Flanged Version inches (mm)





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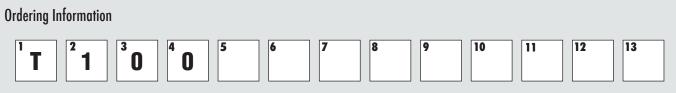


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TI00 Series Low Pressure How to Order



A complete T100 Series Low Pressure Model Number contains 13 digits including 9 customer-specified design and materials options, for example: T100ERDGHFEHA.

Low Pressure

Digit	Order Code	Description		
1-4		Pump Configuration		
	T100	Shaft-driven		
5		Performance		
	Е	Max. 96.0 gpm (366.1 l/min) @ 1500 psi (103 bar)		
	F	Max. 76.5 gpm (289.6 l/min) @ 1850 psi (128 bar)		
	Н	Max. 68.0 gpm (257.8 l/min) @ 2100 psi (145 bar)		
6		Pump Head Version		
	R	ANSI Flange Ports (RF)		
7		Pump Head Material		
	D	Nickel Aluminum Bronze (NAB)		
	S	316L Stainless Steel		
8		Diaphragm & O-ring Material		
	G	FKM		
	т	Buna-N		
9		Valve Seat Material		
	D	Tungsten Carbide*		
	Н	17-4 PH Stainless Steel		
	Т	Hastelloy C		
10		Valve Material		
	D	Tungsten Carbide*		
	F	17-4 PH Stainless Steel		
	Т	Hastelloy C		
11		Valve Springs		
	Е	Elgiloy		
12		Valve Spring Retainers		
	Н	17-4 Stainless Steel		
	S	316 SST		
	т	Hastelloy C		
13		Hydra-Oil		
	Α	10W30 standard-duty oil		

*Tungsten Carbide valve seat and disc are a matched set and must be purchased together.