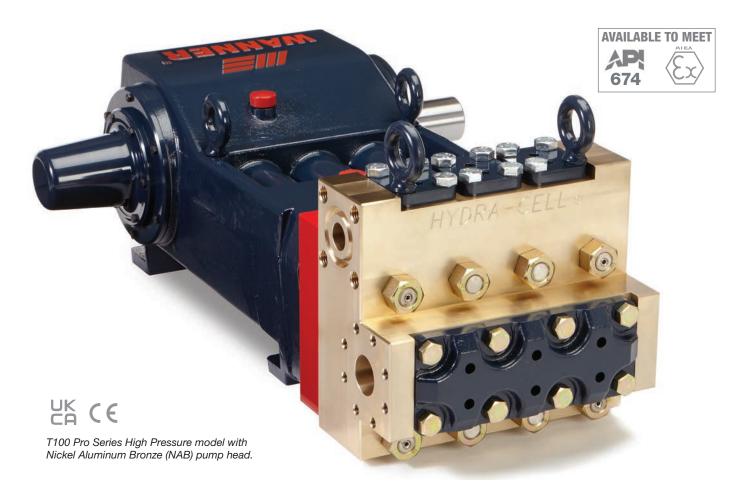
T100 PRO SERIES HIGH PRESSURE

Maximum Flow Rate: 26 gpm (98 l/min) 891 BPD Maximum Pressure: 5000 psi (345 bar)

WANNER[™] HYDRA-CELL[®] PRO

SEAL-LESS PUMP TECHNOLOGIES



A higher standard of pump performance and energy efficiency.

- Integrates Wanner Hydra-Cell® Pro seal-less pump technologies for the highest levels of volumetric and energy efficiencies across a full rpm range.
- Patented ADPC (Advanced Diaphragm Position Control) and hydraulic oil management system protect diaphragms under closed or restricted inlet conditions.
- Can run dry indefinitely without damage to the pump.
- Pumped fluid is 100% contained zero environmental impact, no ground contamination, no volatile emissions.

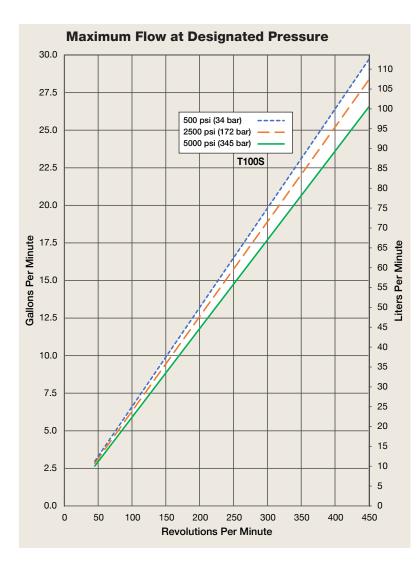
- · Seal-less design eliminates leaks, hazards, and the expense associated with seals and plunger packing.
- Exceeds API 675 standards for accuracy, linearity, and repeatability.
- Reliably handles a wide range of viscosities and shear sensitivities, corrosive fluids, abrasives, slurries and particulates.
- Reduced ownership costs acquisition, operation, service, maintenance and energy use.

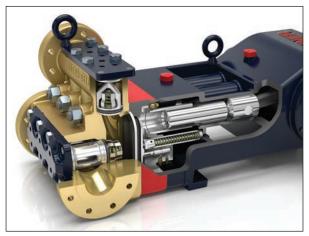


Capacities

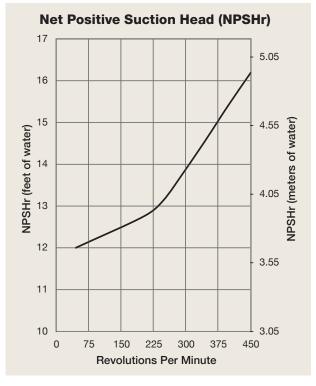
								Max. Pressure Ratings			
	Max. Input		r Dia.	Max. F	low Cap	acities	Discl	harge	In	let	
Model	rpm	inches	mm	gpm	l/min	BPD	psi	bar	psi	bar	
T100S	450	1.375	35	26	98	891	5000	345	500	34	

Consult factory when operating below 45 rpm





T100 Pro 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.

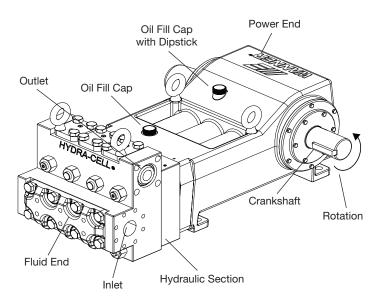


Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.



Flow Capa Model	Pressure psi (b			gpm	l/min	BPD		
T100S	5000 (345)	45	0	26	98	891		
Delivery								
T 1000	Pressure psi	(bar)	-	l/rev	liters/			
T100S	500 (34)		-	.066	0.24	-		
	2500 (172) 5000 (345)		-	.063 .059	0.23 0.22	-		
	5000 (545)		0	.059	0.22	.2		
rpm Movimu	~.	450						
Maximu Minimun		450 45						
wiiniiniun	Consult factory	10	ds les	s than 4	45 rpm.			
Maximum	Discharge Pres			-				
Metallic		5000 ps	i (345	5 bar)				
Maximum	Inlet Pressure	• • •						
		000 p3i	(0+1	Julj				
	Temperature	100°E (0	0.000	`				
Maximu		180°F (82.2°C)						
Minimun		40°F (4.4°C)						
Cons	ult factory for tem	perature	s outs	ide this	range.			
Maximum	Solids Size	800 microns						
Input Sha	ft	Left or Right Side						
Inlet Ports	S	2 inch Class 300 FF ANSI Flange						
Discharge	e Ports	1-1/4 inch Class 2500 RTJ ANSI Flange						
Plunger S	troke Length	3-1/2 inch (88.9 mm)						
Shaft Diai	neter	3 inch (76.2 mm)						
Shaft Rota	ation	Uni-directional (See rotation arrow.)						
Oil Capac	quarts (17 liters) - blank back cover IS quarts (19.4 liters) - oil level back cover age 5 for oil selection and specification.							
	See pa	ge 5 for	oil se	lection	and specif	ication.		
Pump Wei	ight			1100 I	bs. (499 k	g)		

Fluid End Materials	
Manifold:	Nickel Aluminum Bronze (NAB) 316L Stainless Steel
Diaphragm/Elastomers:	FKM
1 0	Buna-N
	Aflas
	EPDM
Diaphragm Follower Screw:	316 Stainless Steel
	Duplex Alloy 2205 Stainless Steel
	Hastelloy C
Valve Spring Retainer:	PVDF
	Polypropylene
	316 SST
Choole Value Caring	Hastelloy C
Check Valve Spring:	Elgiloy Hastelloy C
Valve Disc/Seat:	Tungsten Carbide
valve Disc/Seat.	17-4 Stainless Steel
	Nitronic 50
	Hastelloy C
Plug-Outlet Valve Port:	316 Stainless Steel
5	Duplex Alloy 2205 Stainless Steel
	Hastelloy C
Inlet/Outlet Valve Retainer:	316 Stainless Steel
	Duplex Alloy 2205 Stainless Steel
	Hastelloy C
Power End Materials	
Crankshaft:	Forged Q&T Alloy Steel
Connecting Rods:	Ductile Iron
Crossheads:	12L14 Steel
Crankcase:	Ductile Iron
Bearings:	Spherical Roller (main bearing)
	Steel Backed Babbit (crankpin)
	Bronze (wristpin)



Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

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.

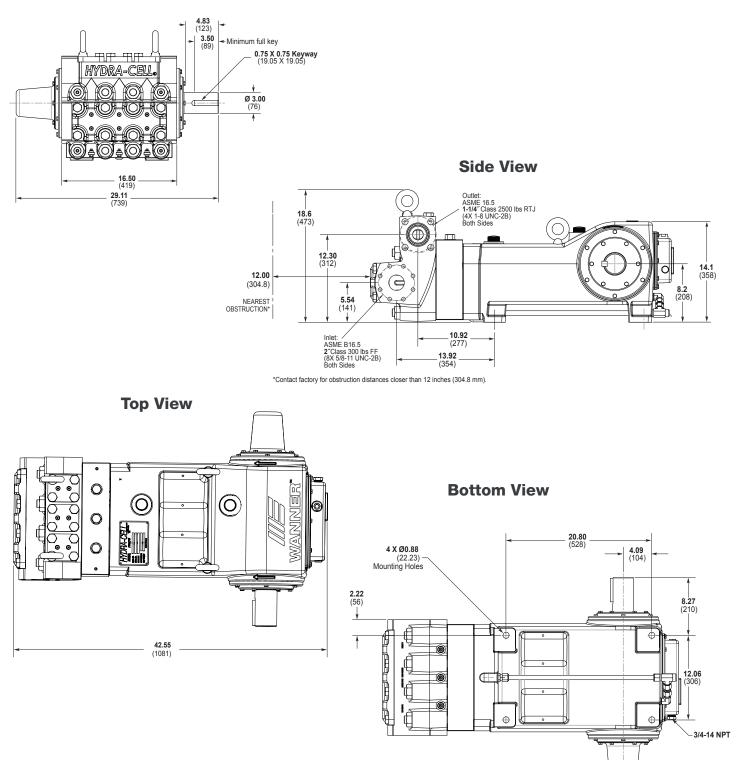
Attention!

When sizing motors with variable frequency 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.



Threaded Version inches (mm)

Front View



Note: Dimensions are for reference only. Contact factory for certified drawings.



Ordering Information

A complete T100 Pro Series High Pressure Model Number contains 14 digits including 8 customer-specified design and materials options, for example: T100SRDTHFEPAC.



High Pressure

Digit	Order Code	Description	Digit	Order Code	Description		
1-4	T100	Pump Configuration			Valve Spring Retainers		
	T100	Shaft-driven		М	PVDF		
5	-	Performance		Р	Polypropylyene		
	S	Max. 26 gpm (98 l/min) 891 BPD @ 5000 psi		S	316 SST		
		(345 bar)		Т	Hastelloy C		
6		Pump Head Version	13		Hydra-Oil		
	R	ANSI Flanged Ports (RF on Inlet / RTJ on Discharge)		Α	10W30 standard-duty oil		
7		Pump Head Material		В	40-wt. oil		
	D	Nickel Aluminum Bronze (NAB)		D	EPDM-compatible oil		
	S	316L Stainless Steel		н	15W50 high-temp severe-duty synthetic oil		
8		Diaphragm & O-ring Material		Μ	Food-contact oil		
	Α	Aflas	14		Oil Level Monitor Cover		
	E	EPDM (requires EPDM-compatible oil -	14	C	Float switch, normally closed (recommended)		
		Digit 13 oil code D)		0	Float switch, normally open		
	G	FKM		S	Float switch, Class I, Div. 1, Groups A, B, C, D,		
	Т	Buna-N		0	normally closed		
9		Valve Seat Material		т	Float switch, Class I, Div. 1, Groups A, B, C, D,		
	D	Tungsten Carbide*		-	normally open		
	H	17-4 Stainless Steel		W	Float switch, ATEX/IECEx, 4-20 mA analog output		
	Ν	Nitronic 50			(qualification required)		
	Т	Hastelloy C		Х	Float switch, ATEX/IECEx, discrete output		
10		Valve Material			(qualification required)		
	D	Tungsten Carbide*		Y	No switch, flat back cover		
	F	17-4 Stainless Steel	Note: T	he Oil Lov	el Monitor Cover is an assembly that replaces the		
	Ν	Nitronic 50			ver on T100 Series pumps. It contains a float switch		
	т	Hastelloy C			n trigger an alarm or shutdown when pre-defined		

	Т	Hastelloy C
11		Valve Springs
	D	Elgiloy for Tungsten Carbide valves*
	Е	Elgiloy
	Т	Hastelloy C

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

Note: The Oil Level Monitor Cover is an assembly that replaces the previous back cover on T100 Series pumps. It contains a float switch assembly that can trigger an alarm or shutdown when pre-defined levels of high or low oil are reached. It may also be ordered without a float switch cover.

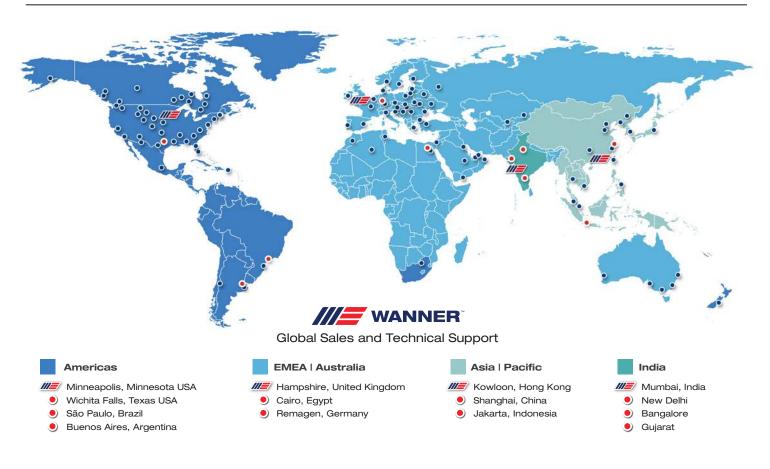




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SEAL-LESS PUMP TECHNOLOGIES

Partners in over 70 countries



Wanner worldwide

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