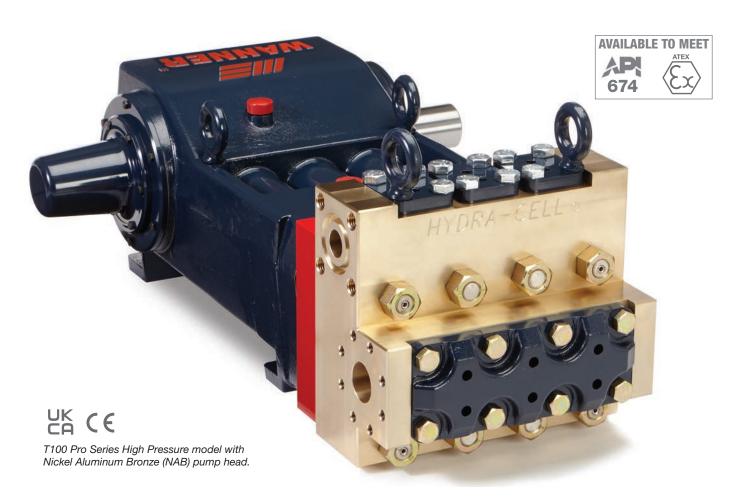
T100 PRO SERIES HIGH PRESSURE

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.



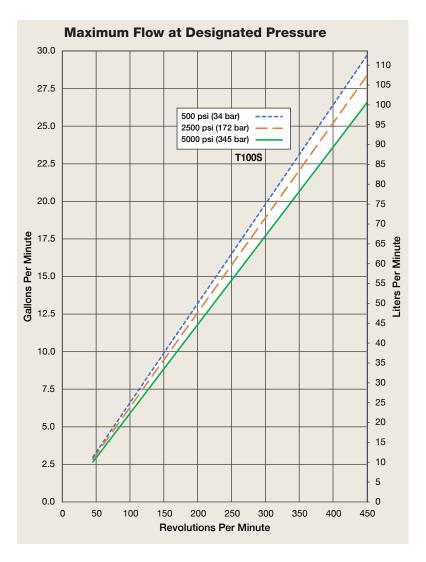
WANNER ENGINEERING WANNERPUMPS.COM

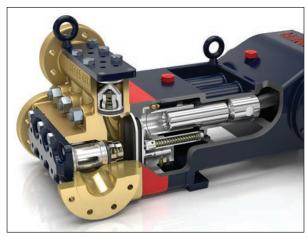
T100 Pro High Pressure | Performance

Capacities

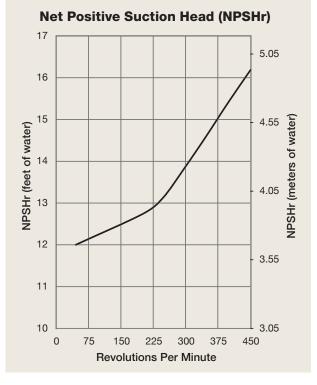
							Ma	x. Pressu	ıre Ratin	gs	
	Max. Input	Plunge	r Dia.	Max. F	low Cap	acities	Disc	harge	In	let	
Mod	rpm	inches	mm	gpm	l/min	BPD	psi	bar	psi	bar	
T100	3 450	1.375	35	26	98	891	5000	345	500	34	

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.

T100 Pro High Pressure | Specifications

Flow Cap								
Model T100S		p si (bar) (345)	rpm 450	gpm 26	I/min 98	BPD 891		
Delivery		(/						
-	Pressu	re psi (ba	ır)	gal/rev	liters/	rev		
T100S	500	` '		0.066	0.24	-		
		(172)		0.063	0.23	-		
	5000	(345)		0.059	0.22	.2		
rpm								
Maximu		45	•					
Minimur		45	•		4-			
-			•	less than 4	15 rpm.			
	ı Discharg							
Metallic	Heads:	50	00 psi (3	345 bar)				
Maximun	ı inlet Pre	ssure 50)0 psi (3	4 bar)				
Operating	Tempera	ture						
Maximu			0°F (82.2	2°C)				
Minimum:			°F (4.4°C	3)				
Cons	ult factory	for tempei	atures o	utside this	range.			
Maximun	ı Solids Si	i ze 80	0 micror	าร				
Input Sha	ft	Le	ft or Rigl	ht Side				
Inlet Port	S	2	nch Clas	s 300 FF A	ANSI Flanç	ge		
Discharge	e Ports	1-	1-1/4 inch Class 2500 RTJ ANSI Flange					
Plunger S	troke Len	gth 3-	1/2 inch	(88.9 mm)			
Shaft Dia	meter	3	nch (76.	2 mm)				
Shaft Rot	ation	Ur	i-directi	onal (See r	otation ar	row.)		
Oil Capac	ity	20.5 US o	uarts (19	iters) - bla 9.4 liters) - selection a	oil level l	oack cover		
Pump We	iaht	ooo page	0 101 011		bs. (499 k			
. amp we	19111			1 100 1	00. (+ 00 K	9/		

Fluid End Materials

Manifold: Nickel Aluminum Bronze (NAB)

316L Stainless Steel

Diaphragm/Elastomers: FKM Buna-N

Aflas EPDM

Diaphragm Follower Screw: 316 Stainless Steel

Duplex Alloy 2205 Stainless Steel

Hastelloy C

Valve Spring Retainer: PVDF

Polypropylene 316 SST Hastelloy C Elgiloy

Check Valve Spring: Elgiloy
Hastelloy C

Valve Disc/Seat: Tungsten Carbide 17-4 Stainless Steel

> Nitronic 50 Hastelloy C

Plug-Outlet Valve Port: 316 Stainless Steel

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)

Calculating Required Horsepower (kW)*

gpm x psi

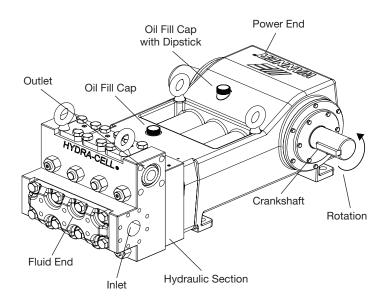
 $\frac{1,460}{1,460}$ = electric motor hp*

Ipm x bar

= electric motor kW*

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.



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

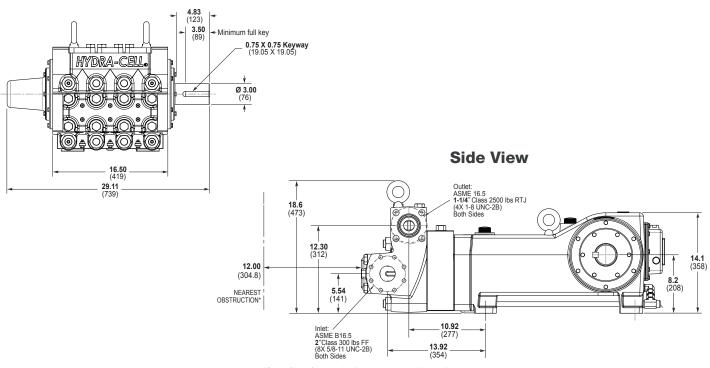


^{*} hp (kW) is required application power.

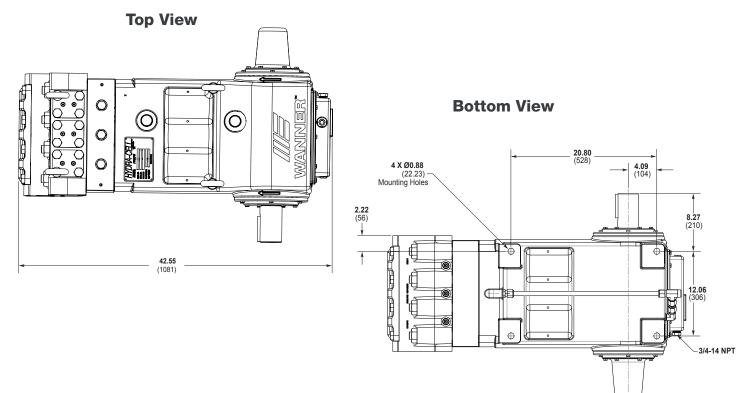
T100 Pro High Pressure | Drawings

Threaded Version inches (mm)

Front View



*Contact factory for obstruction distances closer than 12 inches (304.8 mm)



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



T100 Pro High Pressure | How to Order

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.

	2	1	
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High Pressure

D:-::	Order	Barantotta.
Digit 1-4	Code	Description
1-4	T100	Pump Configuration Shaft-driven
5	S	Performance Max. 26 gpm (98 l/min) 891 BPD @ 5000 psi (345 bar)
6	R	Pump Head Version ANSI Flanged Ports (RF on Inlet / RTJ on Discharge)
7	D S	Pump Head Material Nickel Aluminum Bronze (NAB) 316L Stainless Steel
8	A E	Diaphragm & O-ring Material Aflas EPDM (requires EPDM-compatible oil - Digit 13 oil code D)
	G T	FKM Buna-N
9	D H N T	Valve Seat Material Tungsten Carbide* 17-4 Stainless Steel Nitronic 50 Hastelloy C
10	D F N T	Valve Material Tungsten Carbide* 17-4 Stainless Steel Nitronic 50 Hastelloy C
11	D E T	Valve Springs Elgiloy for Tungsten Carbide valves* Elgiloy Hastelloy C

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

	Order	
Digit	Code	Description
12		Valve Spring Retainers
	M	PVDF
	P	Polypropylyene
	S	316 SST
	T	Hastelloy C
. —		

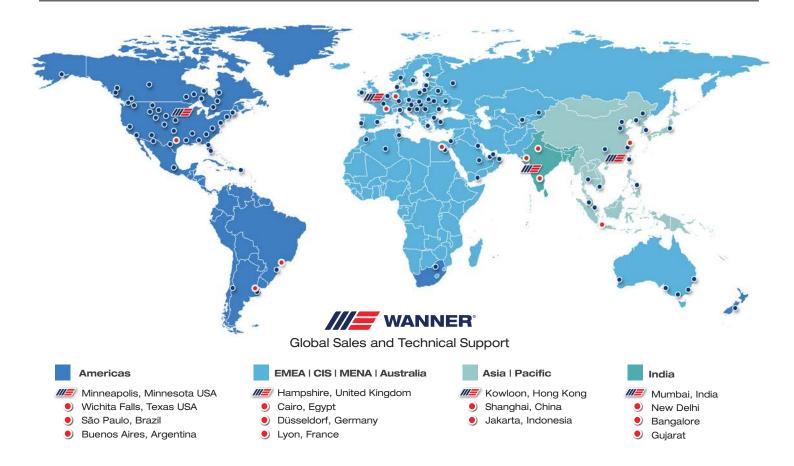
* Tungsten Carbide valves require non-metallic valve spring retainers.

13		Hydra-Oil
	Α	10W30 standard-duty oil
	В	40-wt. oil
	D	EPDM-compatible oil
	Н	15W50 high-temp severe-duty synthetic oil
	M	Food-contact oil
14		Oil Level Monitor Cover
	C	Float switch, normally closed (recommended)
	0	Float switch, normally open
	S	Float switch, Class I, Div. 1, Groups A, B, C, D,
		normally closed
	T	Float switch, Class I, Div. 1, Groups A, B, C, D,
		normally open
	W	Float switch, ATEX/IECEx, 4-20 mA analog output
		(qualification required)
	X	Float switch, ATEX/IECEx, discrete output
		(qualification required)
	Y	No switch, flat back cover

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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