T100 Series Low Pressure

Maximum Flow Rate: 96 gpm (366.1 l/min)
Maximum Pressure: 1500 psi (103 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



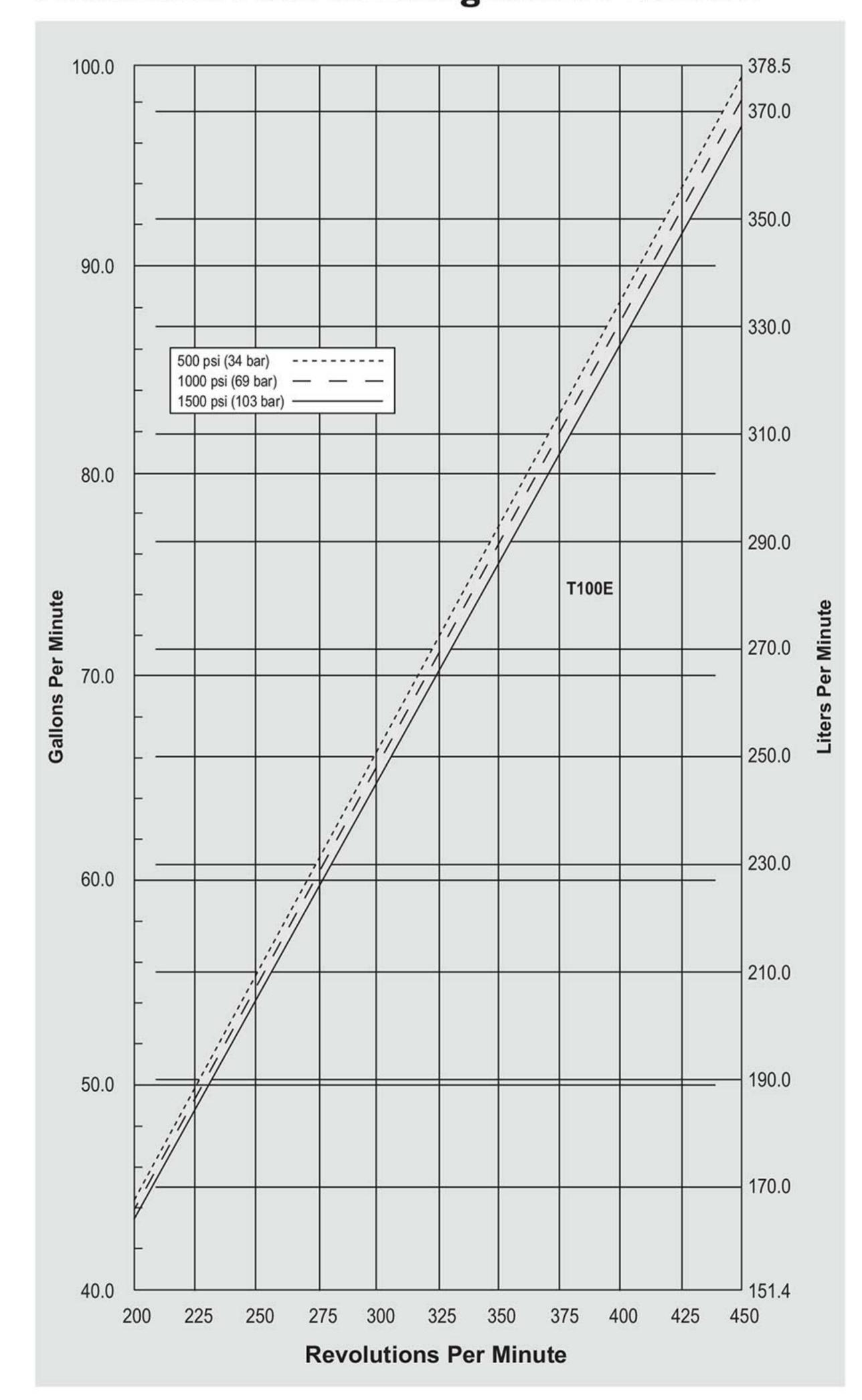


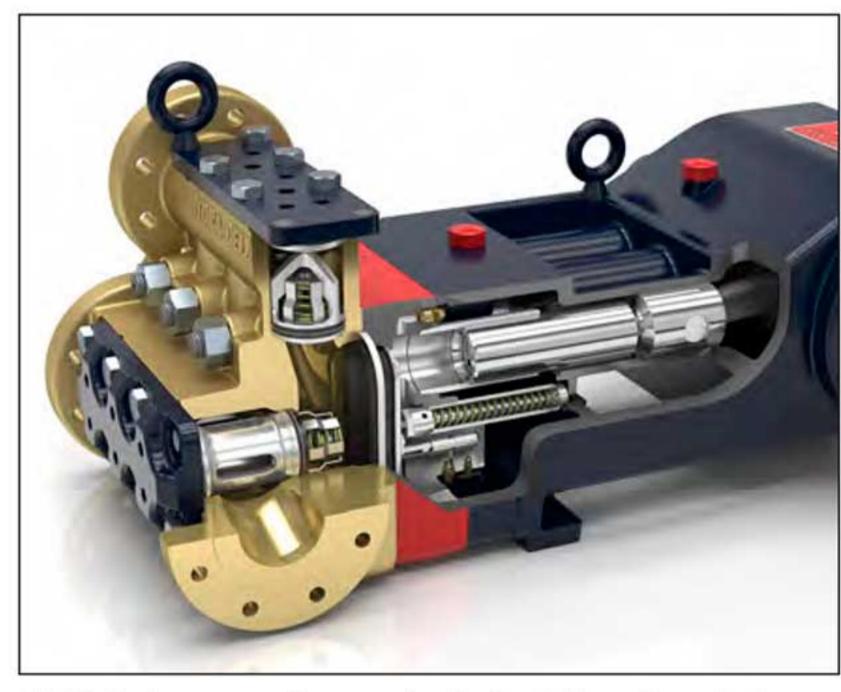
T100 Series Low Pressure Performance

Capacities

Flow				Pressure
	Max. Input	Max. Flow @ 1500 psi (103 bar)		Maximum Inlet Pressure
Model	rpm	gpm	l/min	500 psi (34 bar)
T100E	450	96.0	366.4 gpm (166.6 l/min).	Maximum Discharge Pressure 1500 psi (103 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.



T100 Series Low Pressure Specifications

Flow Capacities @1500 psi (103 bar)						
Model	rpm	gpm	l/min			
T100E	450	96.0	366.4			
Delivery						
Pressure psi (bar)		gal/rev	liters/rev			
500 (34)	.5 (50)	0.221	0.835			
1000 (69)		0.218	0.825			
1500 (103)		0.215	0.814			
rpm						
		F.O.				

Maximum: 450

Minimum: 200 Consult factory for speeds less than 200 rpm

Maximum Discharge Pressure

Metallic Heads: 1500 psi (103 bar)

Maximum Inlet Pressure 500 psi (34 bar)

Operating Temperature

180°F (82.2°C) Maximum: 40°F (4.4°C) Minimum:

Consult factory for temperatures outside this range

Maximum Solids Size	800 microns
Input Shaft	Left or Right Side
Inlet Ports	3-1/2 inch Class 300 RF ANSI Flange
Discharge Ports	2 inch Class 900 RF ANSI Flange
Shaft Diameter	3 inch (76.2 mm)
Shaft Rotation	Reverse (bi-directional)
Oil Capacity	18 US quarts (17 liters)
The second of the second secon	10W30 standard-duty oil

Weight

1100 lbs. (499 kg) Metallic Heads:

Fluid End Materials

Manifold: Nickel Aluminum Bronze (NAB)

316L Stainless Steel

Diaphragm/Elastomers: FKM

Buna-N

316 Stainless Steel Diaphragm Follower Screw: Valve Spring Retainer: 17-7 PH Stainless Steel

Check Valve Spring: Elgiloy

Valve Disc/Seat: 17-4 Stainless Steel 316 Stainless Steel Outlet Valve Retainer: Plug-Outlet Valve Port: 316 Stainless Steel Inlet Valve Retainer: 316 Stainless Steel

Power End Materials

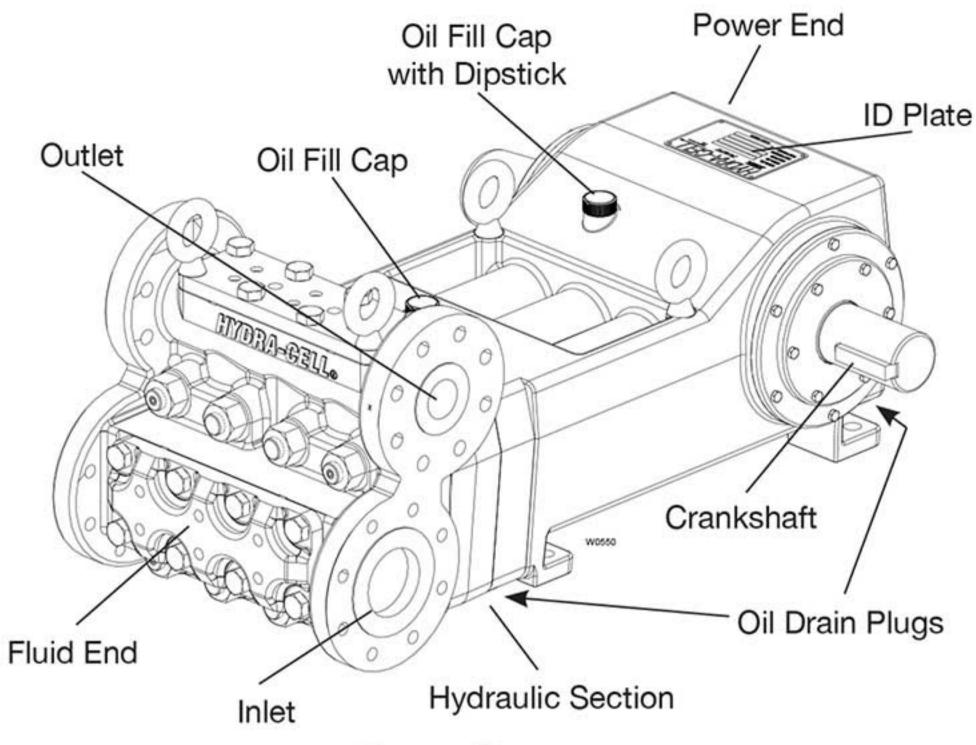
Crankshaft: Forged Q&T Alloy Steel

Connecting Rods: Ductile Iron Crossheads: 12L14 Steel Crankcase: Ductile Iron

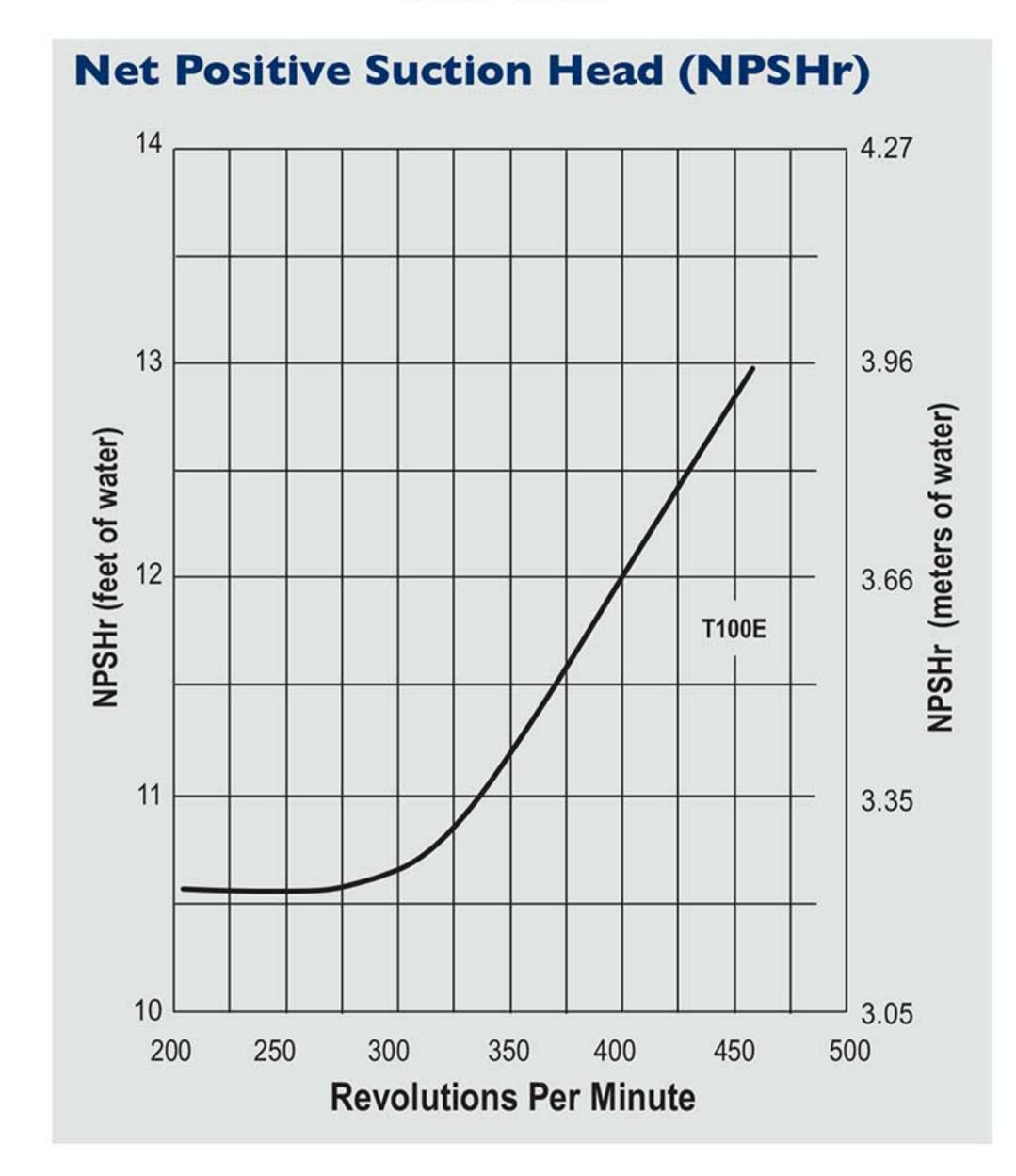
Spherical Roller/Journal (main) Bearings:

Steel Backed Babbit (crankpin)

Bronze (wristpin)



Flange Shown



Calculating Required Horsepower (kW)*

gpm x psi = electric motor hp* 1,460

lpm x bar = electric motor kW*

* hp (kW) is required application power.

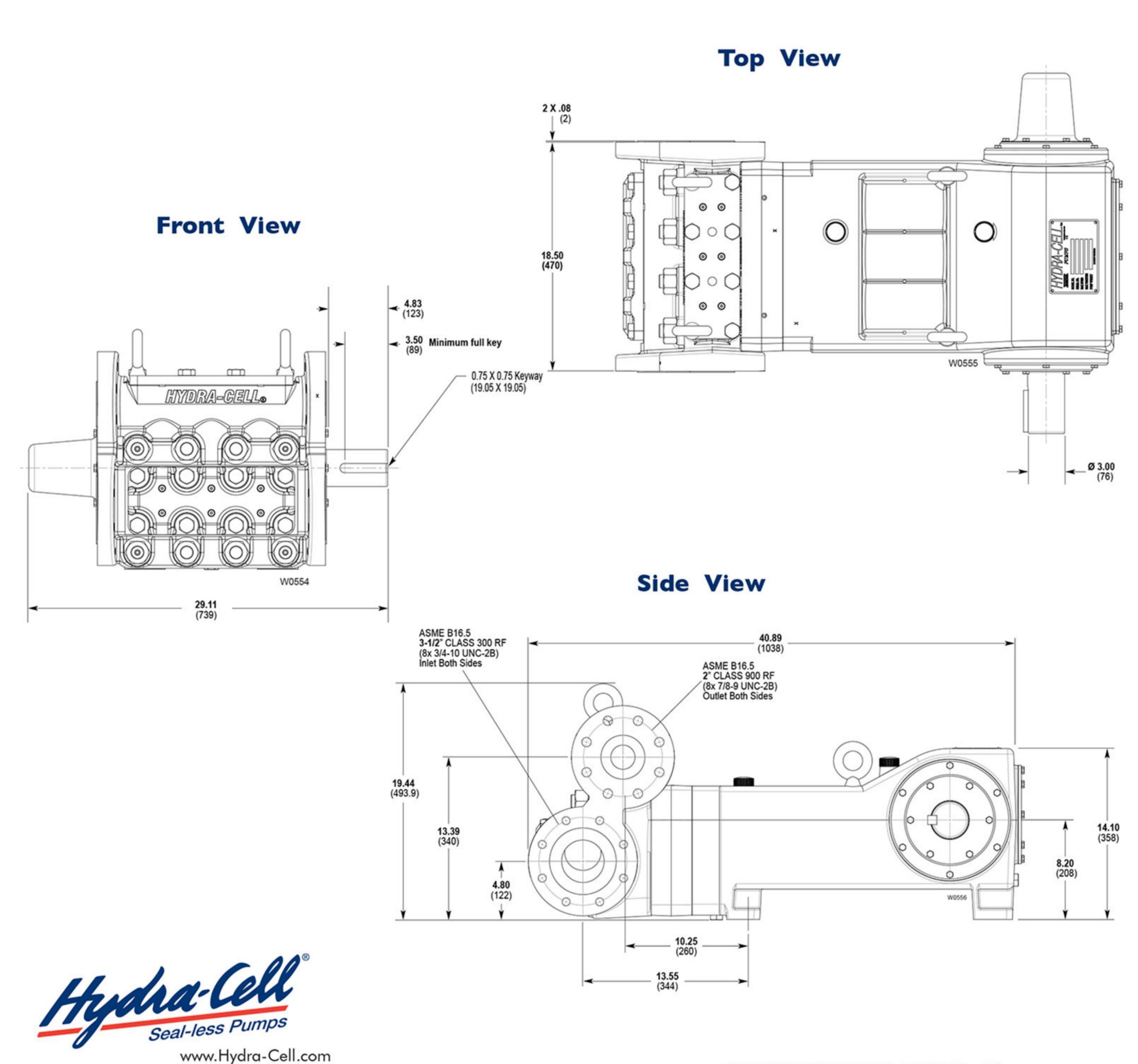
Attention!

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 Low Pressure Dimensions

Flanged Version inches (mm)





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