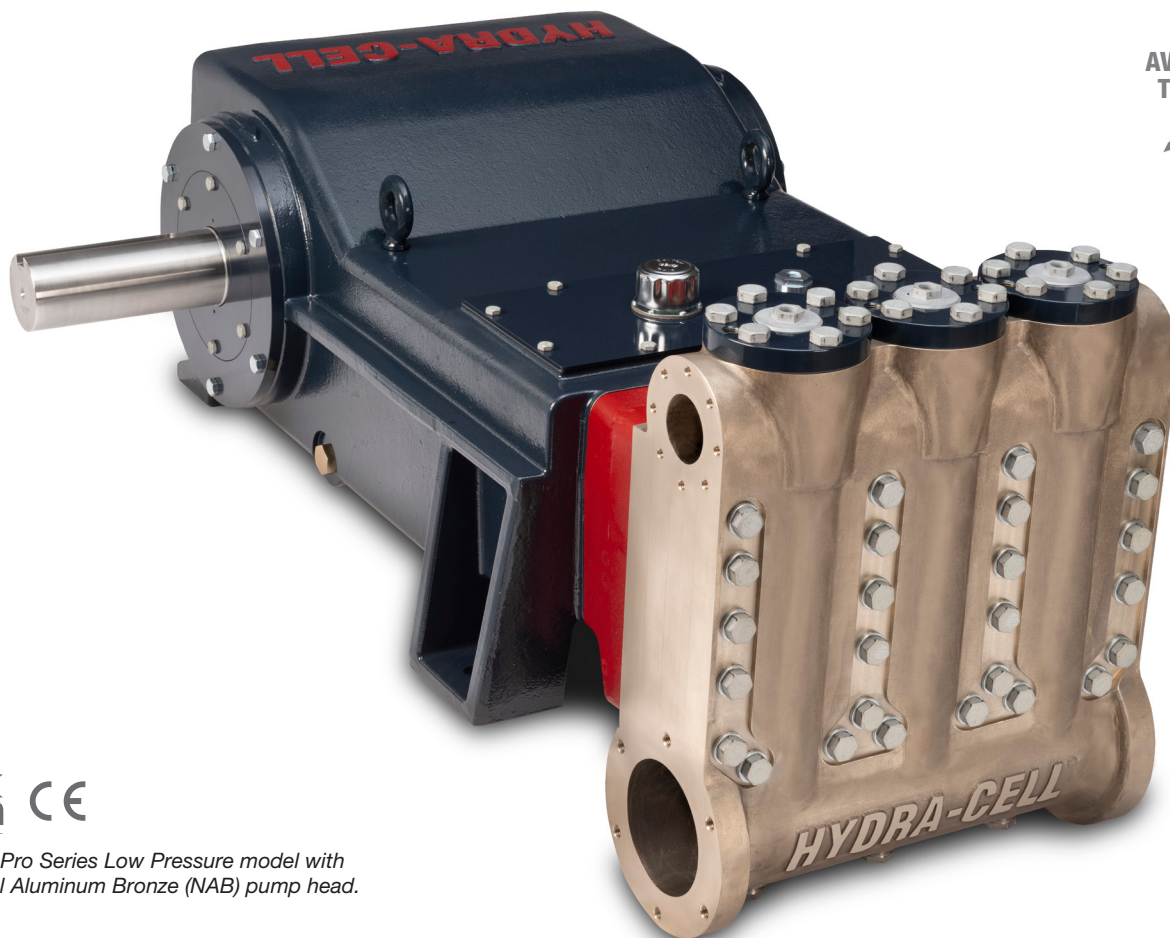


T200 PRO SERIES LOW PRESSURE

Maximum Flow Rate: 202 gpm (764 l/min) 6925 BPD
Maximum Pressure: 2000 psi (138 bar)

 **WANNER™** HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES



AVAILABLE
TO MEET

674

UK
CA CE

T200 Pro Series Low Pressure model with
Nickel Aluminum Bronze (NAB) pump head.

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™

WANNER ENGINEERING, INC.

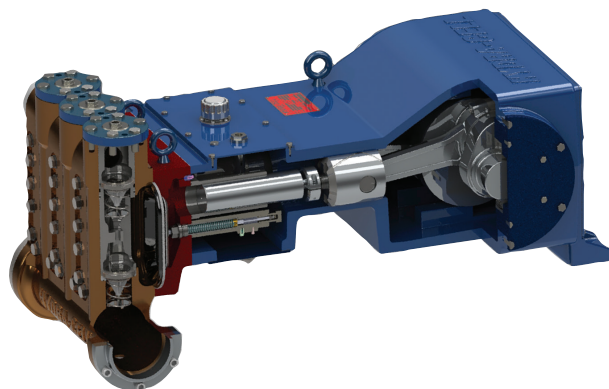
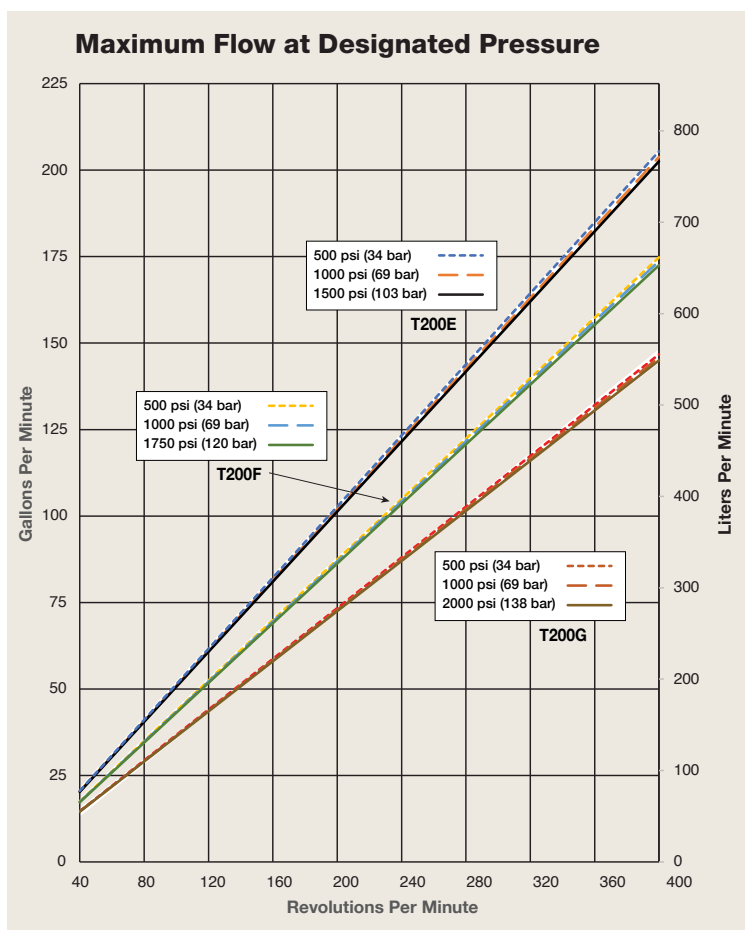
HYDRA-CELL.COM

T200 Pro Low Pressure | Performance

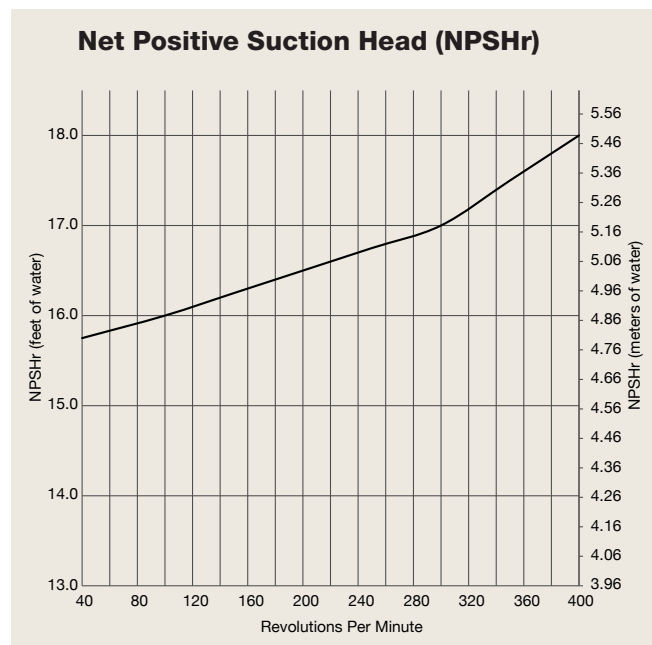
Capacities

Model	Max. Input rpm	Plunger Dia. inches mm		Max. Flow Capacities gpm l/min BPD			Max. Pressure Ratings			
							Discharge		Inlet	
							psi	bar	psi	bar
T200E	400	3.250	82	202	764	6925	1500	103	500	34
T200F	400	3.000	76	172	651	5896	1750	120	500	34
T200G	400	2.750	70	145	548	4971	2000	138	500	34

Consult factory when operating below 40 rpm



T200 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.

T200 Pro Low Pressure | Specifications

Flow Capacities

Model	Pressure psi (bar)	rpm	gpm	l/min	BPD
T200E	1500 (103)	400	202	764	6925
T200F	1750 (120)	400	172	651	5896
T200G	2000 (138)	400	145	548	4971

Delivery

	Pressure psi (bar)	gal/rev	liters/rev
T200E	500 (34)	0.514	1.94
	1000 (69)	0.510	1.93
	1500 (103)	0.506	1.92
T200F	500 (34)	0.437	1.65
	1000 (69)	0.434	1.64
	1750 (120)	0.431	1.63
T200G	500 (34)	0.367	1.39
	1000 (69)	0.365	1.38
	2000 (138)	0.363	1.37

rpm

Maximum:	400
Minimum:	40

Consult factory for speeds less than 40 rpm.

Maximum Discharge Pressure

Metallic Heads:	T200E	1500 psi (103 bar)
	T200F	1750 psi (120 bar)
	T200G	2000 psi (138 bar)

Maximum Inlet Pressure

500 psi (34 bar)

Operating Temperature

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

Consult factory for temperatures outside this range.

Maximum Solids Size

800 microns

Input Shaft

Right Side (left side available on request)

Inlet Ports

Weld-On: 6" / SCH. 40
6" NPT, 6" Class 300 RTJ ANSI Flange

Discharge Ports

Weld-On: 3" / SCH. 160
3" NPT, 3" Class 2500 RTJ ANSI Flange

Plunger Stroke Length

5 inch (127 mm)

Shaft Diameter

4 inch (101.6 mm)

Shaft Rotation

Uni-directional (See rotation arrow)

Oil Capacity

80 US quarts (75.7 liters) – See page 5 for oil selection and specification.

Pump Weight

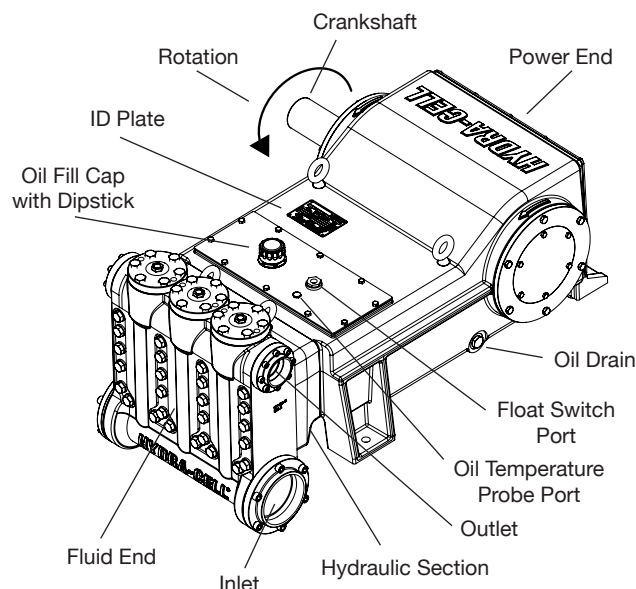
3500 lbs. (1588 kg)

Fluid End Materials

Manifold:	Nickel Aluminum Bronze (NAB) Duplex Alloy 2205 Stainless Steel CF3M (316L) Stainless Steel Hastelloy CX2MW
Diaphragm/Elastomers:	Aflas FKM Buna-N
Diaphragm Follower Screw:	316 Stainless Steel Duplex Alloy 2205 Stainless Steel Hastelloy C
Valve Spring Retainer:	Nitronic 50 Hastelloy C
Check Valve Spring:	Elgiloy Hastelloy C
Valve Disc/Seat:	17-4 Stainless Steel Nitronic 50 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:	Ductile Iron
Crankcase:	Ductile Iron
Bearings:	Spherical Roller (main) Steel-backed Tri-metal (crankpin) Bronze (wristpin)



Calculating Required Horsepower (kW)*

$$\frac{\text{gpm} \times \text{psi}}{1,460} = \text{electric motor hp}^*$$

$$\frac{\text{lpm} \times \text{bar}}{511} = \text{electric motor kW}^*$$

* hp (kW) is required application power.

Attention!

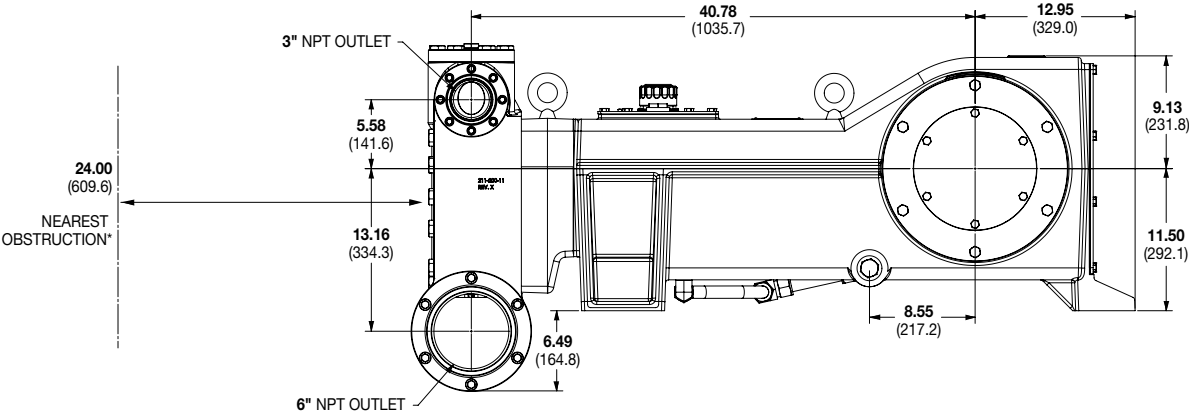
When sizing motors with variable frequency drives (VFD): It is very important to select a motor and a VFD rated for constant torque inverter duty service and that the motor is rated to meet the torque requirements of the pump throughout desired speed range.

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

T200 Pro Low Pressure | Drawings

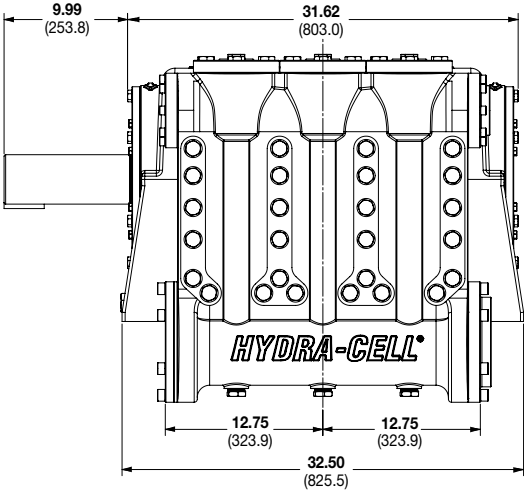
Threaded Version inches (mm)

Side View

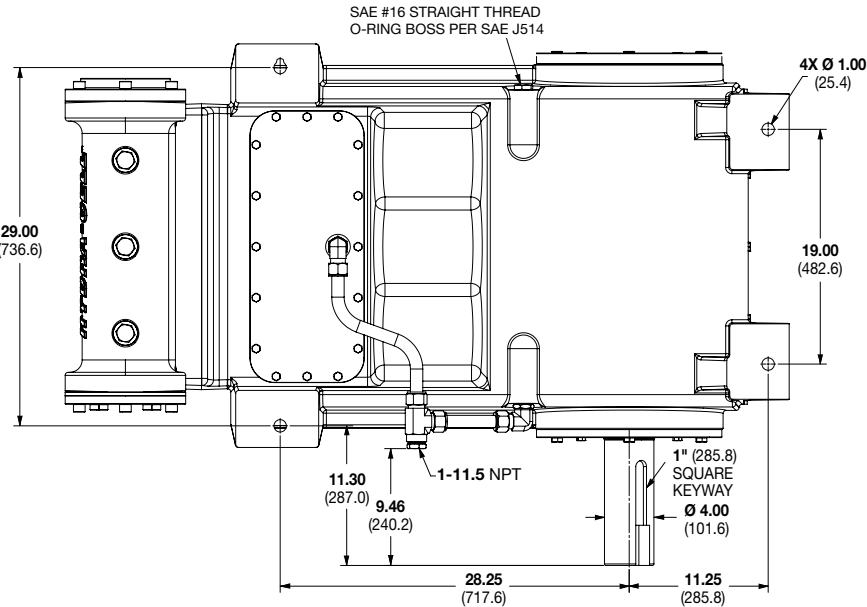


*Contact factory for obstruction distances closer than 24 inches (609.6 mm)

Front View



Bottom View



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

T200 Pro Low Pressure | How to Order

Ordering Information

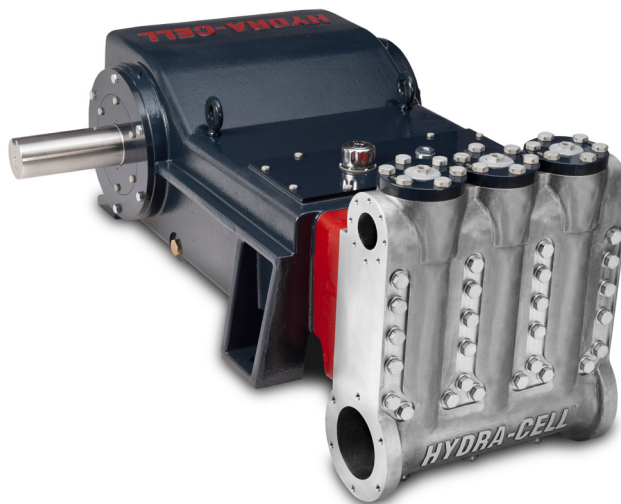
A complete T200 Pro Series Low Pressure Model Number contains 14 digits including 9 customer-specified design and materials options, for example: T200EADTHFETAC.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
T	2	0	0								T		

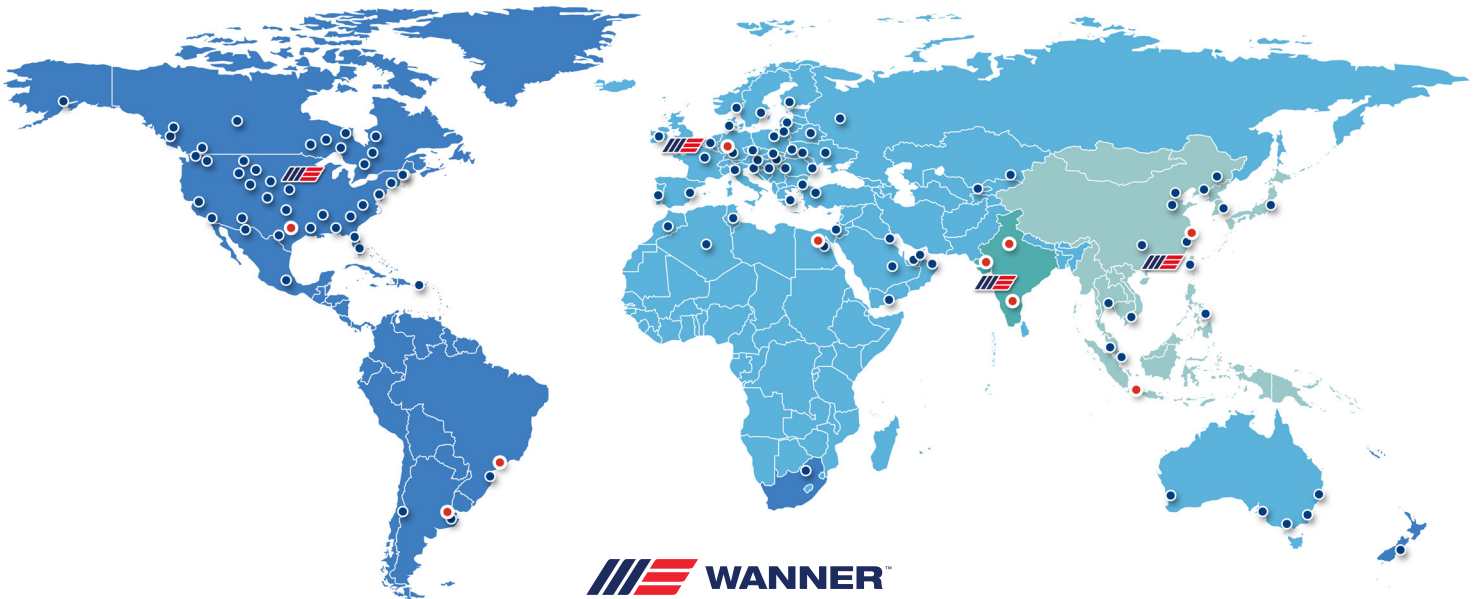
Low Pressure

Digit	Order Code	Description
1-4	T200	Pump Configuration Shaft-driven
5		Performance
	E	Max. 202 gpm (764 l/min) 6925 BPD @ 1500 psi (103 bar)
	F	Max. 172 gpm (651 l/min) 5896 BPD @ 1750 psi (120 bar)
	G	Max. 145 gpm (548 l/min) 4971 BPD @ 2000 psi (138 bar)
6		Pump Head Version
	A	NPT Ports, Steel
	C	Weld Neck, Steel
	D	Weld Neck, 316L Stainless Steel
	E	Weld Neck, Hastelloy C
	F	Weld Neck, Duplex Alloy 2205 Stainless Steel
	G	ANSI Flanged Ports, Duplex Alloy 2205 Stainless Steel
	T	ANSI Flanged Ports, Hastelloy C
7		Pump Head Material
	D	Nickel Aluminum Bronze (NAB)
	G	Duplex Alloy 2205 Stainless Steel
	S	CF3M (316L) Stainless Steel
	T	Hastelloy CX2MW
8		Diaphragm & O-ring Material
	A	Aflas
	G	FKM
	T	Buna-N
9		Valve Seat Material
	H	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
10		Valve Material
	F	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C

Digit	Order Code	Description
11		Valve Springs
	E	Elgiloy
	T	Hastelloy C
12		Valve Spring Retainers / Valve Guide
	N	Nitronic 50 / PVDF
	T	Hastelloy C / PVDF
13		Hydra-Oil
	A	10W30 standard-duty oil
	B	40-wt. oil
	H	15W50 high-temp severe-duty synthetic oil
14		Oil Level Monitoring
	C	Float switch, normally closed (recommended)
	O	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
	Y	No switch, flat back cover



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