

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

Pivot®, Pivot® Pro, Pivot® Pro+ Selection Guide

NEMA 4X Simplex & Duplex Pump Control Panels, 1-60 BHP

Commercial Duty, Heavy Duty Solids Handling, and Grinder Pumps

Pivot, 1Ph only, Simplex and Duplex

Standard Features:

1. NEMA 4X 12"X10"X6" enclosure with lockable hasp
2. cULus and cCSAus certified to standard UL508
3. Input power terminal block
4. Float switch terminal block
5. Ground lug
6. IEC rated motor contactors
7. Control circuit powered by 115VAC, 60Hz
8. Independent alarm circuit powered by 115VAC, 60Hz (can use separate power feed than control circuit)
9. Separate control and alarm circuit fuses
10. External red globe for alarms. Selectable options are solid, flashing, and alarm based.
11. Audible alarm horn is 95dB at 2' (0.6m). Selectable for either Auto reset or Latching (manual alarm reset).
12. External alarm test and silence switch
13. User interface buttons and leds
14. Float status indicator LED indicators
15. Float smart logic prioritizes pump operation even when floats fail.
16. Pump-Run LED indicators
17. Non-simultaneous pump start
18. Pump-run dry contact, normally open
19. Form C auxiliary output dry contact for alarm conditions
20. Smart HAND-OFF-AUTO (HOA).
 - Selection: Service Off (alarm active), Permanent Off (alarm inactive)
 - Simplex Mode, Duplex Mode (simultaneous pump-run enabled), Alternating Mode (simultaneous pump-run not enabled)
 - Selection: 3 or 4 float, SLLH or SLHL float order

21. Alarms:

- High water
- High voltage
- Disabled alarm circuit
- Float fault
- Continuous pump run
- Service off timeout
- Failed contactor

22. USB access to:

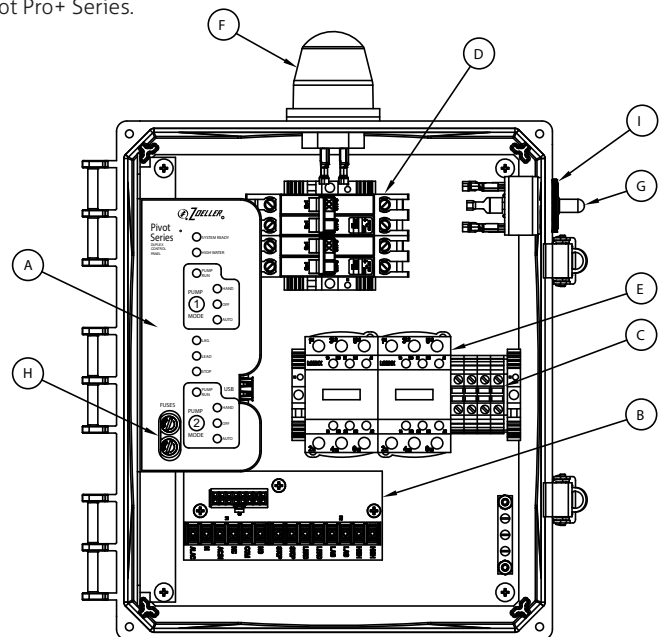
- Elapsed Time Meter
- Event Counter

23. Configurable settings:

- Simplex or duplex mode USB only
- 3 or 4 floats USB only
- Float order SLLH, SLHL USB and PCB Pin 5
- Smart or relay logic USB and PCB Pin 1
- Alarm based, solid, or blinking globe USB and PCB Pin 4
- Active or latching alarm USB only
- Continuous run timer USB and PCB Pin 2
- HOA hand timer USB and PCB Pin 3
- HOA service off alarm timer USB and PCB Pin 3

24. Limited warranty: 5 years

*Pivot panels are only offered with standard features above. For additional features, upgrade to Pivot Pro. For any other options not shown, please refer to Pivot Pro+ Series.



Pivot 1Ph Duplex

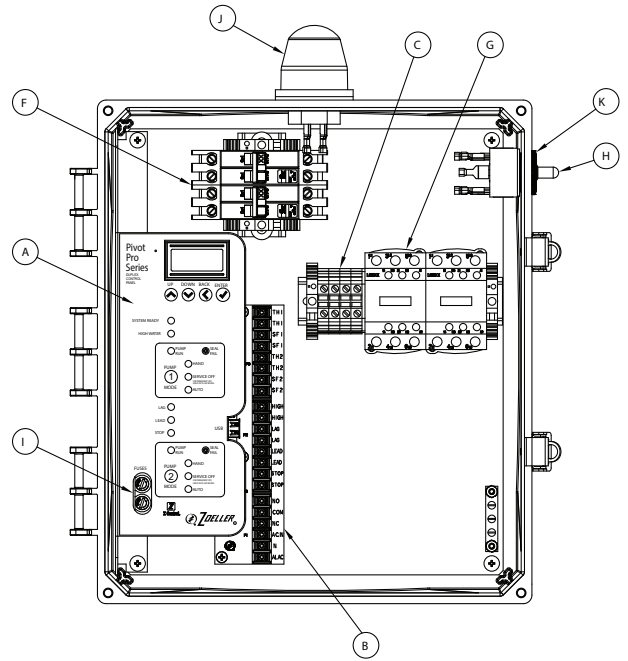
- A) User Interface
- B) Terminal Board
- C) Pump Power Terminals (TB1)
- D) Pump Circuit Breakers
- E) Motor Contactors
- F) Globe
- G) Test/Silence/Reset Switch
- H) Fuses
- I) Buzzer

Pivot Pro, 1Ph and 3Ph

Includes all Standard Pivot features shown above with these additional features:

1. Multi-tap transformer (3 Ph)
2. Pump circuit breaker (1 Ph and 3 Ph) or overload (3 Ph)
3. User interface with LCD screen/menu, buttons, LEDs, & seal fail indicator with adjustment screw
4. Horn/globe/display latching
5. Thermal cutout indication
6. Dry Contact alarms additionally include Seal/Thermal conditions
7. Alternator 1-2 selector switch (lead/lag selector switch)
8. Z Control® enabled for remote monitoring/control and alert notifications (purchase of gateway required)
9. Additional alarms:
 - Seal fail (moisture) alarm, adjustable sensitivity
 - Thermal indicator trip alarm
 - Tripped overload (3 Ph only)

Pivot Pro Panels are only offered with standard features of Pivot and those listed above. For additional options, please see Pivot Pro+.



Pivot Pro 1Ph Duplex

- A) User Interface
- B) Terminal Board
- C) Pump Power Terminals (TB1)
- D) Transformer (3 Ph Only)
- E) Overloads (3 Ph Only)
- F) Circuit Breakers (1Ph Only)
- G) Motor Contactors
- H) Test/Silence/Reset Switch
- I) Fuses
- J) Globe
- K) Alarm Buzzer

Pivot Pro+, 1Ph and 3Ph

Standard features include everything on Pivot Pro models. Pivot Pro+ models are built in a larger enclosure to allow selection of options below.

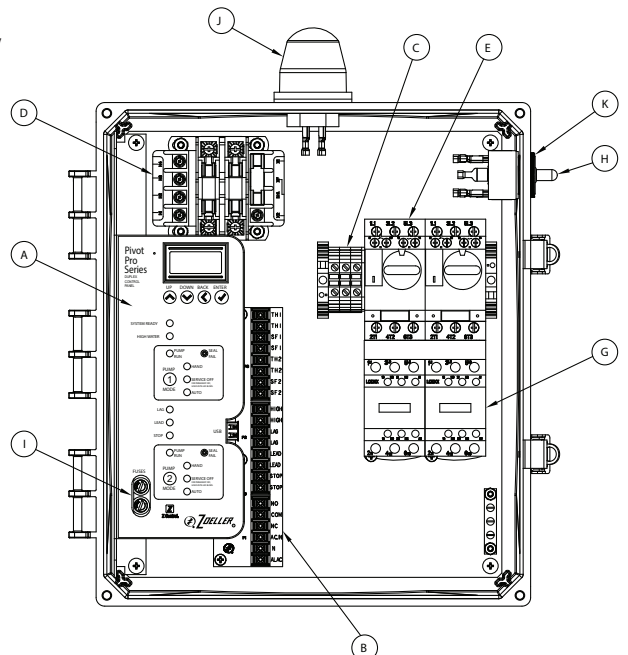
Pivot Pro+ now available with Start Kits and Reversing functionality

Future options for Pivot Pro+:

1. Anti-condensation heater
2. Generator receptacle
3. Intrinsically safe circuits
4. Time dosing

The following options require a custom panel order:

1. Inner door
2. Main disconnect
3. Outer door mounted indicators and switches
4. Variable Frequency Drives (VFD)
5. Lightning arrestor
6. Stainless steel enclosure



Pivot® Pro 3Ph Duplex

Control Panel Selection Guide

NEMA 4X Simplex & Duplex Pump Control Panels, 1-60 BHP
Commercial Duty, Heavy Duty Solids Handling, and Grinder Pumps

Pivot and Pivot Pro Panels

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8	Grinder Pumps, 2-7.5 BHP Reversing
8	Explosion Proof Pumps

Zoeller offers a full line of custom control panels. For options not shown here or applications that require additional specifications, please contact us at zcotechnical@zoeller.com or 800-928-7867.

Standard Commercial Duty Effluent Pumps								
Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
N6155	115	1	10.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E6155	230	1	5.3	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N6161	115	1	15.5	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J6161	200	3	6.4	6-10		114E4-0001		124E4-0001
F6161	230	3	5.2	4-6.3		114D4-0001		124D4-0001
G6161	460	3	2.9	2.5-4		114C4-0001		124C4-0001
N6163	115	1	15	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J6163	200	3	6	6-10		114E4-0001		124E4-0001
F6163	230	3	4.8	4-6.3		114D4-0001		124D4-0001
G6163	460	3	2.9	2.5-4		114C4-0001		124C4-0001
I6186	200	1	17.2	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E6186	230	1	13.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J6186	200	3	10.3	9-14		114F4-0001		124F4-0001
F6186	230	3	9.2	6-10		114E4-0001		124E4-0001
G6186	460	3	4.6	4-6.3		114D4-0001		124D4-0001
I6188	200	1	16.8	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E6188	230	1	14	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J6188	200	3	10.3	9-14		114F4-0001		124F4-0001
F6188	230	3	8.9	6-10		114E4-0001		124E4-0001
G6188	460	3	4.6	4-6.3		114D4-0001		124D4-0001
I6189	200	1	20.5	20-30	31344-0001	11344-0001	32344-0001	12344-0001
E6189	230	1	17.1	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J6189	200	3	13.2	13-18		114G4-0001		124G4-0001
F6189	230	3	11.2	9-14		114F4-0001		124F4-0001
G6189	460	3	6	6-10		114E4-0001		124E4-0001

Standard Commerical Duty Sewage Ejectors								
Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
N6267	115	1	9.4	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I6267	200	1	6.2	0-7		11314-0001		12314-0001
E6267	230	1	4.7	0-7	31314-0001	11314-0001	32314-0001	12314-0001
J6267	200	3	3.6	2.5-4		114C4-0001		124C4-0001
F6267	230	3	3.3	2.5-4		114C4-0001		124C4-0001
G6267	460	3	2	1.6-2.5		114B4-0001		124B4-0001
I6284	200	1	9.3	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E6284	230	1	8.9	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J6284	200	3	5.5	4-6.3		114D4-0001		124D4-0001
F6284	230	3	5	4-6.3		114D4-0001		124D4-0001
G6284	460	3	2.6	2.5-4		114C4-0001		124C4-0001
N6292	115	1	15	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J6292	200	3	6.4	6-10		114E4-0001		124E4-0001
F6292	230	3	5.2	4-6.3		114D4-0001		124D4-0001
G6292	460	3	2.9	2.5-4		114C4-0001		124C4-0001
I6294	200	1	17.8	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E6294	230	1	13.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J6294	200	3	10.8	9-14		114F4-0001		124F4-0001
F6294	230	3	9.5	6-10		114E4-0001		124E4-0001
G6294	460	3	4.8	4-6.3		114D4-0001		124D4-0001
I6295	200	1	20.5	20-30	31344-0001	11344-0001	32344-0001	12344-0001
E6295	230	1	17.1	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J6295	200	3	14.3	13-18		114G4-0001		124G4-0001
F6295	230	3	12.2	9-14		114F4-0001		124F4-0001
G6295	460	3	6.1	6-10		114E4-0001		124E4-0001
F6404	230	3	10.5	9-14		114F4-0001		124F4-0001
G6404	460	3	5.2	4-6.3		114D4-0001		124D4-0001
F6405	230	3	12.2	9-14		114F4-0001		124F4-0001
G6405	460	3	6.1	6-10		114E4-0001		124E4-0001

Standard Solids Handling Pumps 61 HD Series, 1-10 BHP						
Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
E6111	230	1	28	24-32	217R4-0003	227R4-0003
J6111	200	3	17.5	17-23	114H4-0001	124H4-0001
F6111	230	3	15.2	13-18	114G4-0001	124G4-0001
G6111	460	3	7.6	6-10	114E4-0001	124E4-0001
J6112	200	3	25.3	24-32	114R4-0001	124R4-0001
F6112	230	3	22	20-25	114Q4-0001	124Q4-0001
G6112	460	3	11	9-14	114F4-0001	124F4-0001
J6113	200	3	32.2	30-40	114S4-0001	124S4-0001
F6113	230	3	28	24-32	114R4-0001	124R4-0001
G6113	460	3	14	13-18	114G4-0001	124G4-0001
E6120	230	1	6.9	6-10	217E4-0001	227E4-0001
J6120	200	3	4.8	4-6.3	114D4-0001	124D4-0001
F6120	230	3	4.2	4-6.3	114D4-0001	124D4-0001
G6120	460	3	2.1	1.6-2.5	114B4-0001	124B4-0001
E6121	230	1	8.9	6-10	217E4-0001	227E4-0001
J6121	200	3	5.9	4-6.3	114D4-0001	124D4-0001
F6121	230	3	5.1	4-6.3	114D4-0001	124D4-0001
G6121	460	3	2.6	2.5-4	114C4-0001	124C4-0001
E6122	230	1	14.5	13-18	217G4-0001	227G4-0001
J6122	200	3	7.8	6-10	114E4-0001	124E4-0001
F6122	230	3	6.8	6-10	114E4-0001	124E4-0001
G6122	460	3	3.4	2.5-4	114C4-0001	124C4-0001
E6123	230	1	17	17-23	217H4-0001	227H4-0001
J6123	200	3	11	9-14	114F4-0001	124F4-0001
F6123	230	3	9.6	9-14	114F4-0001	124F4-0001
G6123	460	3	4.8	4-6.3	114D4-0001	124D4-0001
E6124	230	1	28	24-32	217R4-0002	227R4-0002
J6124	200	3	17.5	17-23	114H4-0001	124H4-0001
F6124	230	3	15.2	13-18	114G4-0001	124G4-0001
G6124	460	3	7.6	6-10	114E4-0001	124E4-0001
J6125	200	3	25.3	24-32	114R4-0001	124R4-0001
F6125	230	3	22	20-25	114Q4-0001	124Q4-0001
G6125	460	3	11	9-14	114F4-0001	124F4-0001

Standard Solids Handling Pumps 62 HD Series, 5-20 BHP						
Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
E6220	230	1	27.5	24-32	217R4-0001	227R4-0001
J6220	200	3	17.5	17-23	114H4-0001	124H4-0001
F6220	230	3	15.2	13-18	114G4-0001	124G4-0001
G6220	460	3	7.6	6-10	114E4-0001	124E4-0001
E6221	230	1	36.7	30-40	217S4-0001	227S4-0001
J6221	200	3	25	24-32	114R4-0001	124R4-0001
F6221	230	3	22	20-25	114Q4-0001	124Q4-0001
G6221	460	3	11	9-14	114F4-0001	124F4-0001
J6222	200	3	32	30-40	114S4-0001	124S4-0001
F6222	230	3	28	24-32	114R4-0001	124R4-0001
G6222	460	3	14	13-18	114G4-0001	124G4-0001
J6223	200	3	48.3	37-50	114T4-0001	124T4-0001
F6223	230	3	41.7	37-50	114T4-0001	124T4-0001
G6223	460	3	20.9	20-25	114Q4-0001	124Q4-0001
J6224	200	3	59.4	48-63	114U4-0001	124U4-0001
F6224	230	3	54	48-63	114U4-0001	124U4-0001
G6224	460	3	27	24-32	114R4-0001	124R4-0001

Standard Solids Handling Pumps 64 HD Series						
Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
F6424	230	3	68		Call Factory	Call Factory
G6424	460	3	34	30-40	114S4-0001	124S4-0001
F6425	230	3	80		Call Factory	Call Factory
G6425	460	3	40	37-50	114T4-0001	124T4-0001
G6426	460	3	52	48-63	114U4-0001	124U4-0001
G6427	460	3	62	48-63	114U4-0001	124U4-0001
G6428	460	3	75		Call Factory	Call Factory

Low Pressure Sewer Progressing Cavity Pumps								
LPS panels are specifically built for RWD-PC grinder applications and do not have all features of the Pivot/Pivot Pro series.								
Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
E7020	230	1	7.0	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I7021	200	1	12.0	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E7021	230	1	10.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
RWD7020*	230	1	7.0	7-15		51224-0001		62304-0001
RWH7021*	200	1	12.0	7-15		51224-0001		62304-0001
RWD7021*	230	1	10.5	7-15		51224-0001		62304-0001

Grinder Pumps, 1 - 15 BHP Single Direction								
Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
N7008	115	1	13.6	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI7008	200-230	1	9.9	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI7010	200-230	1	14.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I7013	200	1	20	15-20		21734-0001		22734-0001
E7013	230	1	17.2	15-20		21734-0001		22734-0001
J7013	200	3	12.3	9-14		114F4-0001		124F4-0001
F7013	230	3	10.8	9-14		114F4-0001		124F4-0001
G7013	460	3	5.5	4-6.3		114D4-0001		124D4-0001
E7110	230	1	23.6	24-32		217R4-0003		227R4-0003
J7110	200	3	17.3	17-23		114H4-0001		124H4-0001
F7110	230	3	15.1	13-18		114G4-0001		124G4-0001
G7110	460	3	7.5	6-10		114E4-0001		124E4-0001
E7111	230	1	28	24-32		217R4-0003		227R4-0003
J7111	200	3	20.7	20-25		114Q4-0001		124Q4-0001
F7111	230	3	18	17-23		114H4-0001		124H4-0001
G7111	460	3	9	9-14		114F4-0001		124F4-0001
J7112	200	3	25.3	24-32		114R4-0001		124R4-0001
F7112	230	3	22	20-25		114Q4-0001		124Q4-0001
G7112	460	3	11	9-14		114F4-0001		124F4-0001
J7212	200	3	48.3	37-50		114T4-0001		124T4-0001
F7212	230	3	42	37-50		114T4-0001		124T4-0001
G7212	460	3	21	20-25		114Q4-0001		124Q4-0001
J7213	200	3	62.1	48-63		114U4-0001		124U4-0001
F7213	230	3	54	48-63		114U4-0001		124U4-0001
G7213	460	3	27	24-32		114R4-0001		124R4-0001

Grinder Pumps, 2 - 7.5 BHP REVERSING						
Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
E7011	230	1	17.2	15-20	23734-0001	24734-0001
I7011	200	1	20	15-20	23734-0001	24734-0001
J7011	200	3	12.3	9-14	234F4-0001	244F4-0001
F7011	230	3	10.8	9-14	234F4-0001	244F4-0001
G7011	460	3	5.5	4-6.3	234D4-0001	244D4-0001
J7110RV	200	3	17.3	17-23	234H4-0001	244H4-0001
F7110RV	230	3	15.1	13-18	234G4-0001	244G4-0001
G7110RV	460	3	7.5	6-10	234E4-0001	244E4-0001
J7111RV	200	3	20.7	17-23	234H4-0001	244H4-0001
F7111RV	230	3	18	17-23	234H4-0001	244H4-0001
G7111RV	460	3	9	9-14	234F4-0001	244F4-0001
J7112RV	200	3	25.3	23-32	234R4-0001	244R4-0001
F7112RV	230	3	22	20-25	234Q4-0001	244Q4-0001
G7112RV	460	3	11	9-14	234F4-0001	244F4-0001

For Intrinsically Safe Panels used with Explosion Proof Pumps:
1. Select the panel for the non-explosion proof version of the pump. Ex: For the FX6188, find the panel for a F6188 and then...
2. Add the Pivot Pack IS, 90104-0001
3. Call factory if your pump is not listed.