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SECTION: 2.50.240
FM3459
0826
Supersedes
0626

ZOELLER® PUMP COMPANY

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

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

NEMA 4X Simplex & Duplex Pump Control Panels, .5 - 7.5 BHP

Sump, Dewatering, Effluent, Sewage and Grinder Pumps

Pivot, 1Ph only, Simplex and Duplex

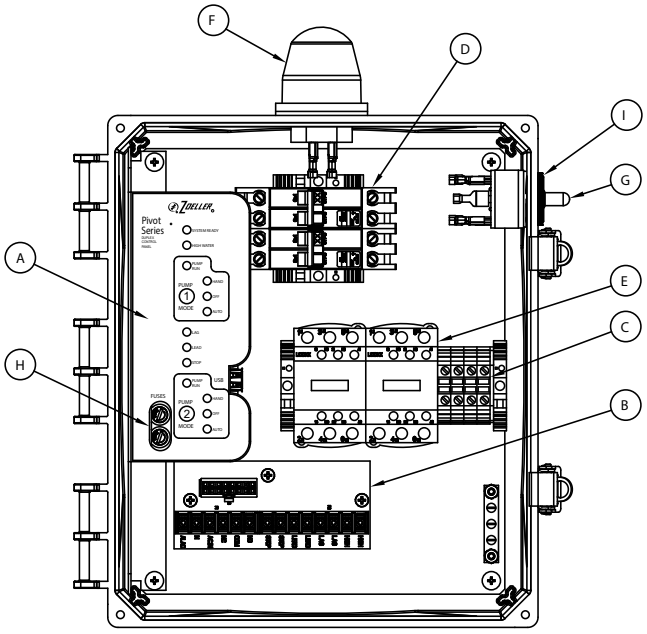
Standard Features:

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
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

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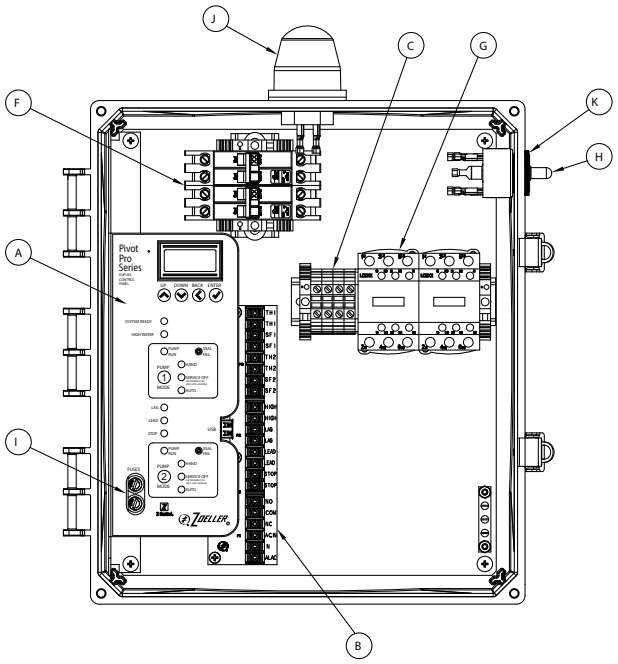
Pivot Pro, 1Ph and 3Ph

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 indicator
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 with the additional purchase of a Zoeller Gateway.
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+. For any other options not shown, please refer to Pivot Pro+ Series.



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 (1 Ph 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.

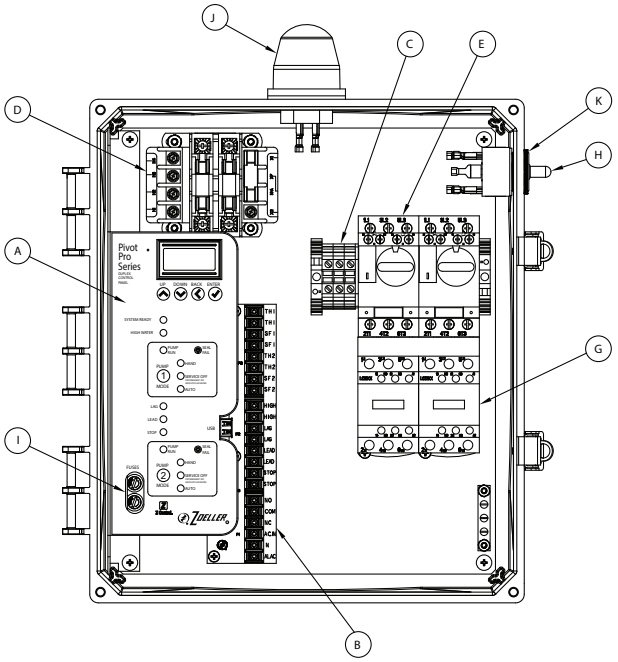
Pivot Pro+ now available with Start Kits and Reversing functionality

Future options for Pivot Pro+:

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

For the following options, please consult factory for a custom control panel:

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

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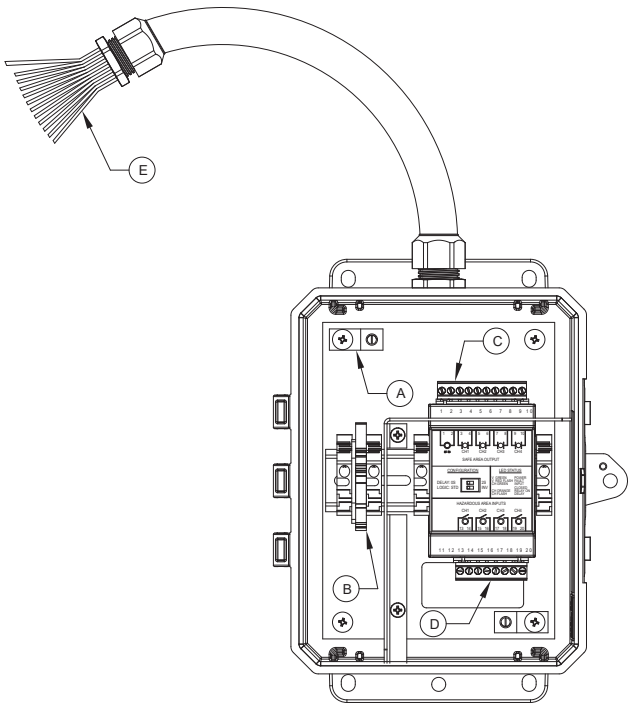
Pivot Pak IS

The Pivot Pak IS is an independent accessory designed to be added to any of our existing Pivot panels to convert them to intrinsically safe panels.

Standard Features

1. Nema 4X 8-1/2"X6"X3" enclosure with lockable hasp
2. Meets Class 1 Division 1 Intrinsically Safe requirements
3. cULus Listed to UL 508A, UL 698A, CSA C22.2 No. 286, and CSA C22.2 No. 157
4. Input power terminal block
5. Float switch terminal block
6. Ground lug
7. Control circuit powered by 115VAC, 60Hz
8. Connect one to four floats
9. Steps down 120VAC power from panel to the float switches



SK3523

A) Ground Lug
B) Fuse
C) Float Safe Area Outputs from Panel
D) Hazardous Area Inputs from Floats
E) To Panel

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For Standard Sump and Effluent Ejectors

Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
N53	115	1	9.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E53	230	1	4.8	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N55	115	1	9.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E55	230	1	4.8	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N57	115	1	9.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E57	230	1	4.8	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N59	115	1	9.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E59	230	1	4.8	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N98	115	1	9.4	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E98	230	1	4.7	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N137	115	1	9.4	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I137	200	1	6.2	0-7	31314-0001	11314-0001	32314-0001	12314-0001
E137	230	1	4.7	0-7	31314-0001	11314-0001	32314-0001	12314-0001
J137	200	3	3.6	2.5-4		114C4-0001		124C4-0001
F137	230	3	3.3	2.5-4		114C4-0001		124C4-0001
G137	460	3	2.0	1.6-2.5		114B4-0001		124B4-0001
N139	115	1	10.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I139	200	1	6.2	0-7	31314-0001	11314-0001	32314-0001	12314-0001
E139	230	1	4.7	0-7	31314-0001	11314-0001	32314-0001	12314-0001
J139	200	3	4	4-6.3		114D4-0001		124D4-0001
F139	230	3	4.7	4-6.3		114D4-0001		124D4-0001
G139	460	3	2.5	2.5-4		114C4-0001		124C4-0001
N140	115	1	12	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E140	230	1	6	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N145	115	1	13	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E145	230	1	6	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N151	115	1	6	0-7	31314-0001	11314-0001	32314-0001	12314-0001
E151	230	1	3	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N152	115	1	8.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E152	230	1	4.3	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N153	115	1	10.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E153	230	1	5.3	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N161	115	1	15	15-20	31334-0001	11334-0001	32334-0001	12334-0001
I161	200	1	8.8	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E161	230	1	7.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J161	200	3	6.4	6-10		114E4-0001		124E4-0001
F161	230	3	5.2	4-6.3		114D4-0001		124D4-0001
G161	460	3	2.9	2.5-4		114C4-0001		124C4-0001
N163	115	1	15	15-20	31334-0001	11334-0001	32334-0001	12334-0001
I163	200	1	8.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E163	230	1	7.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J163	200	3	6	6-10		114E4-0001		124E4-0001
F163	230	3	4.8	4-6.3		114D4-0001		124D4-0001
G163	460	3	2.9	2.5-4		114C4-0001		124C4-0001

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For Standard Sump and Effluent Ejectors (continued)

Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
E165	230	1	10.2	7-15	31324-0001	11324-0001	32324-0001	12324-0001
F165	230	3	7.4	6-10		114E4-0001		124E4-0001
G165	460	3	3.7	2.5-4		114C4-0001		124C4-0001
E185	230	1	9.8	7-15	31324-0001	11324-0001	32324-0001	12324-0001
F185	230	3	7.4	6-10		114E4-0001		124E4-0001
G185	460	3	3.7	2.5-4		114C4-0001		124C4-0001
I186	200	1	17.2	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E186	230	1	13.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J186	200	3	10.3	9-14		114F4-0001		124F4-0001
F186	230	3	9.2	6-10		114E4-0001		124E4-0001
G186	460	3	4.6	4-6.3		114D4-0001		124D4-0001
I188	200	1	16.8	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E188	230	1	14	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J188	200	3	10.3	9-14		114F4-0001		124F4-0001
F188	230	3	8.9	6-10		114E4-0001		124E4-0001
G188	460	3	4.6	4-6.3		114D4-0001		124D4-0001
I189	200	1	20.5	20-30	31344-0001	11344-0001	32344-0001	12344-0001
E189	230	1	17.1	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J189	200	3	13.2	13-18		114G4-0001		124G4-0001
F189	230	3	11.2	9-14		114F4-0001		124F4-0001
G189	460	3	6	6-10		114E4-0001		124E4-0001
E191	230	1	14.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001

For Standard Sewage Ejectors

Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
N266	115	1	9.4	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I266	200	1	6.2	0-7	31314-0001	11314-0001	32314-0001	12314-0001
E266	230	1	4.7	0-7	31314-0001	11314-0001	32314-0001	12314-0001
J266	200	3	3.6	2.5-4		114C4-0001		124C4-0001
F266	230	3	3.3	2.5-4		114C4-0001		124C4-0001
G266	460	3	2	1.6-2.5		114B4-0001		124B4-0001
N267	115	1	9.4	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I267	200	1	6.2	0-7	31314-0001	11314-0001	32314-0001	12314-0001
E267	230	1	4.7	0-7	31314-0001	11314-0001	32314-0001	12314-0001
J267	200	3	3.6	2.5-4		114C4-0001		124C4-0001
F267	230	3	3.3	2.5-4		114C4-0001		124C4-0001
G267	460	3	2	1.6-2.5		114B4-0001		124B4-0001
N270	115	1	15	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E270	230	1	7.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
N282	115	1	10.3	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I282	200	1	6.1	0-7	31314-0001	11314-0001	32314-0001	12314-0001
E282	230	1	5	0-7	31314-0001	11314-0001	32314-0001	12314-0001
I284	200	1	9.3	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E284	230	1	8.9	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J284	200	3	5.5	4-6.3		114D4-0001		124D4-0001

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For Standard Sewage Ejectors (continued)

Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
F284	230	3	5	4-6.3		114D4-0001		124D4-0001
G284	460	3	2.6	2.5-4		114C4-0001		124C4-0001
N292	115	1	15	15-20	31334-0001	11334-0001	32334-0001	12334-0001
I292	200	1	8.8	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E292	230	1	7.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J292	200	3	6.4	6-10		114E4-0001		124E4-0001
F292	230	3	5.2	4-6.3		114D4-0001		124D4-0001
G292	460	3	2.9	2.5-4		114C4-0001		124C4-0001
E293	230	1	10.2	7-15	31324-0001	11324-0001	32324-0001	12324-0001
F293	230	3	7.6	6-10		114E4-0001		124E4-0001
G293	460	3	4	4-6.3		114D4-0001		124D4-0001
I294	200	1	17.8	15-20	31334-0001	11334-0001	32334-0001	12334-0001
E294	230	1	13.7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
J294	200	3	10.8	9-14		114F4-0001		124F4-0001
F294	230	3	9.5	6-10		114E4-0001		124E4-0001
G294	460	3	4.8	4-6.3		114D4-0001		124D4-0001
I295	200	1	20.5	20-30	31344-0001	11344-0001	32344-0001	12344-0001
E295	230	1	17.1	15-20	31334-0001	11334-0001	32334-0001	12334-0001
J295	200	3	14.3	13-18		114G4-0001		124G4-0001
F295	230	3	12.2	9-14		114F4-0001		124F4-0001
G295	460	3	6.1	6-10		114E4-0001		124E4-0001
EI4404	200-230	1	12.9	7-15	31324-0001	11324-0001	32324-0001	12324-0001
F4404	230	3	10.5	9-14		114F4-0001		124F4-0001
G4404	460	3	5.2	4-6.3		114D4-0001		124D4-0001
EI4405	200-230	1	18.0	15-20	31334-0001	11334-0001	32334-0001	12334-0001
F4405	230	3	12.2	9-14		114F4-0001		124F4-0001
G4405	460	3	6.1	6-10		114E4-0001		124E4-0001

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For Standard Solids Handling 600 Series, 1 - 7.5 HP

Pump Specifications				Simplex Panels		Duplex Panels
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot Pro
E611	230	1	6.9	6-10	217E4-0001	227E4-0001
J611	200	3	4.8	4-6.3	114D4-0001	124D4-0001
F611	230	3	4.2	4-6.3	114D4-0001	124D4-0001
G611	460	3	2.1	1.6-2.5	114B4-0001	124B4-0001
E621	230	1	8.9	6-10	217E4-0001	227E4-0001
J621	200	3	5.9	4-6.3	114D4-0001	124D4-0001
F621	230	3	5.1	4-6.3	114D4-0001	124D4-0001
G621	460	3	2.6	2.5-4	114C4-0001	124C4-0001
E631	230	1	14.5	13-18	217G4-0001	227G4-0001
J631	200	3	7.8	6-10	114E4-0001	124E4-0001
F631	230	3	6.8	6-10	114E4-0001	124E4-0001
G631	460	3	3.4	2.5-4	114C4-0001	124C4-0001
E641	230	1	17	17-23	217H4-0001	227H4-0001
J641	200	3	11	9-14	114F4-0001	124F4-0001
F641	230	3	9.6	9-14	114F4-0001	124F4-0001
G641	460	3	4.8	4-6.3	114D4-0001	124D4-0001
E651	230	1	28	24-32	217R4-0002	227R4-0002
J651	200	3	17.5	17-23	114H4-0001	124H4-0001
F651	230	3	15.2	13-18	114G4-0001	124G4-0001
G651	460	3	7.6	6-10	114E4-0001	124E4-0001
J661	200	3	25.3	24-32	114R4-0001	124R4-0001
F661	230	3	22	20-25	114Q4-0001	124Q4-0001
G661	460	3	11	9-14	114F4-0001	124F4-0001

For Grinder Pumps, .5 - 2 HP Single Direction

Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
N803	115	1	7	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI803	200-230	1	3	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N805	115	1	9	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI805	200-230	1	3.6	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N807	115	1	11	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI807	200-230	1	5	0-7	31314-0001	11314-0001	32314-0001	12314-0001
N818	115	1	13.6	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI818	200-230	1	9.9	7-15	31324-0001	11324-0001	32324-0001	12324-0001
EI820	200-230	1	14.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I841	200	1	20	15-20		21734-0001		22734-0001
E841	230	1	17.2	15-20		21734-0001		22734-0001
J841	200	3	12.3	9-14		114F4-0001		124F4-0001
F841	230	3	10.8	9-14		114F4-0001		124F4-0001
G841	460	3	5.5	4-6.3		114D4-0001		124D4-0001

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Grinder Pumps, 2 HP Reversing								
Pump Specifications				Simplex Panel			Duplex Panel	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot Pro	Pivot RL	Pivot Pro	Pivot RL
E840	230	1	17.2	15-20	23734-0001	53234-0001	24734-0001	Consult Factory
I840	200	1	20	15-20	23734-0001	53234-0001	24734-0001	Consult Factory
F840	230	3	10.8	9-14	234F4-0001	Consult Factory	244F4-0001	Consult Factory
J840	200	3	12.3	9-14	234F4-0001	Consult Factory	244F4-0001	Consult Factory
G840	460	3	5.5	4-6.3	234D4-0001	Consult Factory	244D4-0001	Consult Factory

For Low Pressure Sewer Progressing Cavity Pumps								
The panels shown below for RWD pumps are not Pivot panels. They are specialty LPS panels.								
Pump Specifications				Simplex Panels			Duplex Panels	
Model	Voltage	Phase	Tag Amps	Amp Range	Pivot	Pivot Pro	Pivot	Pivot Pro
E810	230	1	7.0	7-15	31324-0001	11324-0001	32324-0001	12324-0001
I815	200	1	12.0	7-15	31324-0001	11324-0001	32324-0001	12324-0001
E815	230	1	10.5	7-15	31324-0001	11324-0001	32324-0001	12324-0001
RWD810*	230	1	7.0	7-15		51224-0001		
RWH815*	200	1	12.0	7-15		51224-0001		
RWD815*	230	1	10.5	7-15		51224-0001		

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 FX4188, find the panel for a F188 and then...
2. Add the Pivot Pack IS, 90104-0001
3. Call factory if your pump is not listed.

ZOELLER® PUMP COMPANY

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