

PUMPS AND SYSTEMS

ZOELLER[®]
PUMP COMPANY



Utility, Pedestal

Backup Systems

Sump, Effluent, Dewatering

Sewage Pumps

Grinder Pumps and Systems

Specialty Products



Professionals Training Professionals



The Center For Excellence training facility at Zoeller Company in Louisville, Kentucky offers a unique opportunity to experience the pump industry, learning from experts in the field. Bring your customers for an hour, a day, or more. Learn about the pump industry and why Zoeller products are designed to be the best for professionals.

What We Do

Gain first-hand experience in the unique and varied aspects of pump manufacturing and specification at our 6,000 ft² training facility. In the demonstration room, our industry professionals offer live demonstrations and computer simulations of our latest products and core concepts. Lift stations including active controls are designed to demonstrate the how-and-why of pump technology. A state-of-the-art classroom provides space for lectures and group discussions with a library of cutaway models for reference.

Training Tailored To Meet Your Needs

Training experiences at the CFE are tailored to cover the specific topics that most interest you and your customers. All participants gain valuable technical and practical product knowledge. Our training staff will work with you to design the most profitable experience for your group.

Some topics we have covered to date include:

- Pump sizing
- Troubleshooting a control panel
- Product overview
- Startup training
- How performance curves are created
- Rail systems



Email us! cfetraining@zoeller.com





Zoeller University Online

ONLINE COURSES FOR PLUMBING PROFESSIONALS

Learn at your pace in your space with Zoeller University's Online platform! Zoeller offers online, interactive courses for industry professionals. Grow your expertise in subjects covering products, technical knowledge, policy, promotions, and more, all from the comfort of your own home or office! Create a profile and start learning today when you visit www.zoelleruniversity.com.



Zoeller University On Demand

LIVE & RECORDED WEBINARS

Zoeller hosts several FREE LIVE webinars each year that cover a variety of industry and product-related topics from pump and basin sizing basics to control panel components and troubleshooting. Topics are chosen based on your feedback and fine-tuned by Zoeller experts with years of experience and industry knowledge to create a valuable and educational experience for all attendees.



Zoeller University On The Road

SALES TRAINING THAT TRAVELS!

Zoeller is taking it to the road with their product trailer. Do you have a special event, show or counter day coming up? Contact your local Zoeller Representative to book a visit from our product experts and the mobile product demo trailer.

Equipped with interactive demos, and the latest Zoeller products and swag, the trailer is sure to make a splash at your event no matter the occasion. Book your event today!



42, 44, 46

Floor Sucker Series

Ideal for intermittent use, these pumps can draw water down as low as 1/8" (3 mm). To reduce maintenance and eliminate clogging, a screened bottom intake design is used. Motor life is enhanced and extended by an energy-efficient design and a UV-protected pump body. Pump discharge is fully adaptable to standard garden hose connections, and a handle is provided for ease of handling.

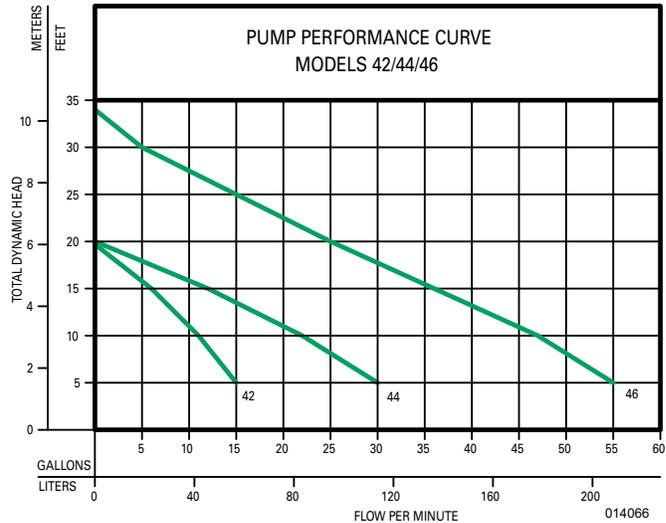
APPLICATIONS:

- General water transfer
- Dewatering

SPECIFICATIONS:

- 3/4" (19 mm) garden hose outlet
- Thermally protected motor
- LM44 is AUTOMATIC with no float switch
- Available with 9' or 20' (3 or 6 m) power cord
- Oil free (models 42, 44)
- Temperature rated 104 °F (40 °C)

For more information, see Technical Data Sheet FM2773.



311

Mighty Mover

Ideal for intermittent use, this portable and lightweight transfer pump performs at a high level. This type of pump often experiences dry-run conditions, so the metal pump housing and nylon impeller (extra impeller included) can outperform similar products with plastic pump housings. It includes a suction hose and remote suction plate for added convenience.



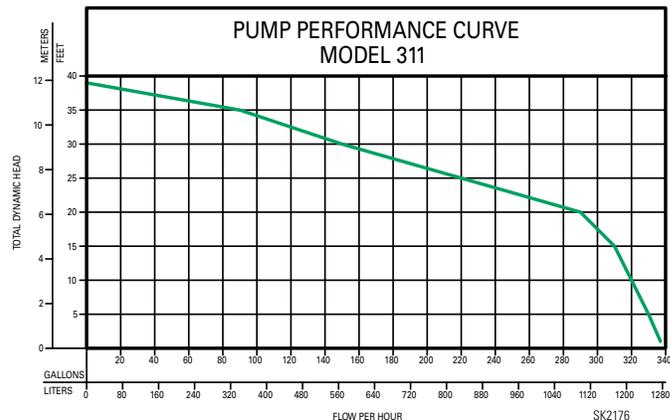
APPLICATIONS:

- General water transfer
- Draining water heaters
- Filling radiant heating lines

SPECIFICATIONS:

- 3/4" (19 mm) garden hose inlet and outlet
- Includes 6' (2 m) suction hose and remote suction plate
- Available with 6' (2 m) power cord
- Temperature rated 130 °F (54 °C)

For more information, see Technical Data Sheet FM2774.



314

Water Mover

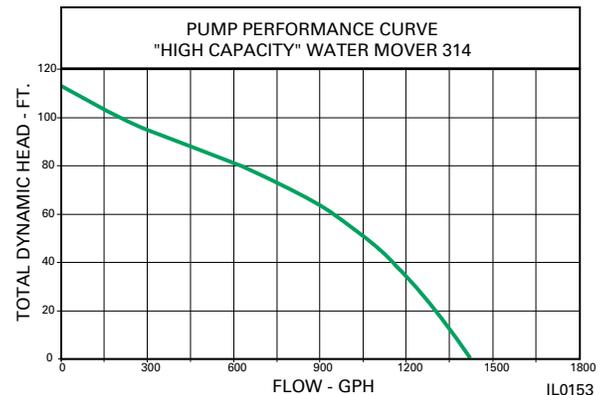
Generating almost 50 PSI, this is our most powerful transfer pump. The durable cast iron pump housing and easily serviced brush motor ensure trouble-free operation. For convenience, an over-sized priming handle is included, so no tools are required. The extra-long power cord and pump-mounted on-off switch simplify operation.



SPECIFICATIONS:

- 3/4" NPT inlet and outlet with lead-free brass garden hose adapters
- Includes suction screen and extra set of brushes
- Available with 20' (6 m) power cord
- Temperature rated 120 °F (49 °C)

For more information, see Technical Data Sheet FM2775.



APPLICATIONS:

- Water transfer
- Power washing
- Filling radiant heating lines

81, 82, 84

Old Faithful

Ideal for residential sump pits, these column pumps feature an above-pit cover motor design. An adjustable float allows the user to set the on and off points that best meet their needs. The permanently lubricated motor is thermally protected for quiet operation and longer life. The non-clogging vortex impeller and inlet screen help eliminate jamming from debris such as leaves and other small particles.

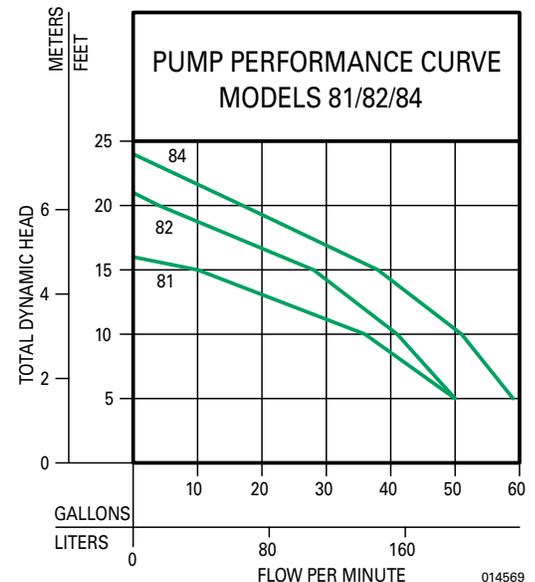
APPLICATIONS:

- New sump and residential construction
- Sump pits

SPECIFICATIONS:

- 1-1/2" or 1-1/4" NPT discharge
- Top inlet eliminates air-locked conditions
- Adjustable float
- 81/82 thermoplastic base, 84 cast iron base
- Temperature rated 130 °F (54 °C)

For more information, see Technical Data Sheet FM2776.



49 Water Ridd'r III

This compact, robust pump fits into smaller sump basins. The factory-set float switch is set to maximize pump range while ensuring no float hang-ups. The sturdy pump base keeps larger debris from clogging the pump and prevents the pump from moving around the pit.

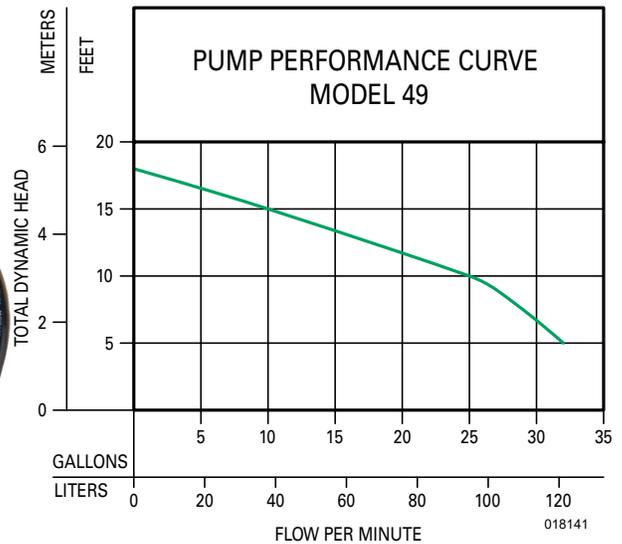
APPLICATIONS:

- Residential sump
- New construction sump

SPECIFICATIONS:

- 1-1/2" NPT discharge
- Mechanical float
- Available with 10' (3 m) power cord
- 3/8" (9 mm) solids passing

For more information, see Technical Data Sheet FM2777.



73, 75

The Models 73 and 75 offer accessible quality for the cost conscious. These submersible pumps are designed for use in residential or light commercial dewatering applications and can be used to transfer groundwater or effluent. The pump includes a cast iron motor housing with a corrosion-resistant, baked-on enamel finish and is designed to provide great heat dissipation from the motor, ensuring a long service life.

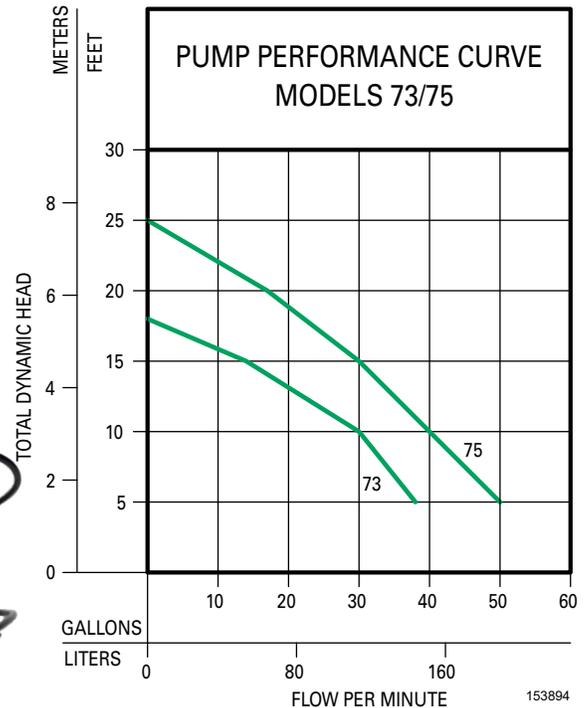
APPLICATIONS:

- Water transfer
- Sump and dewatering systems
- New sump and residential construction

SPECIFICATIONS:

- 1/3 HP (Model 73) and 1/2 HP (Model 75)
- 1-1/2" NPT discharge
- Thermally protected motor
- Available with 10' (3 m) power cord
- 3/8" (9 mm) solids passing

For more information, see Technical Data Sheets FM2897 and FM2849.



53[®], 55, 57, 59, 98 Mighty-Mate/Flow-Mate



Considered one of America's most popular sump pumps. This robust family of sump pumps is known for reliability, durability and performance. Available with an integral, 2-pole, snap-action float switch. The heat-dissipating cast iron body with powder coated epoxy finish provides maximum pumping performance under the most extreme conditions. With Zoeller's cool run design, the hermetically sealed, oil-filled motor and non-clogging vortex impeller add up to a long-lasting, trouble-free product. Models 53-0001 and 98-0001 come with the Zoeller LED Plug that allows you to check for power at a quick glance.

APPLICATIONS:

- Water transfer
- Sump and effluent systems
- Light commercial
- New sump and residential construction

SPECIFICATIONS:

- 1-1/2" NPT discharge
- 3/10 HP (53[®], 55, 57, 59), 1/2 HP (98)
- Zoeller LED Plug on 53-0001 and 98-0001
- Available in automatic or nonautomatic
- 1/2" (12 mm) spherical solids capacity
- Thermoplastic or cast iron base
- Thermoplastic or cast iron impeller
- Bronze construction available (55/59 series)

For more information, see Technical Data Sheets FM2778, FM2779.

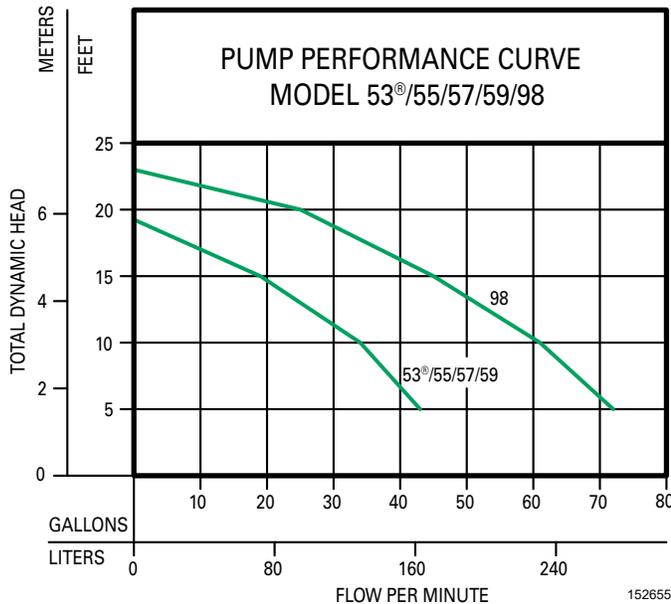


Automatic model
53-0001



Nonautomatic model with
piggyback

Automatic model
98-0001

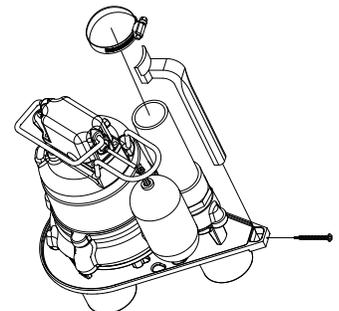


OPTIONAL* PUMP STAND P/N 10-2421

- Reduces potential clogging by debris
- Replaces rocks or bricks under the pump
- Made of durable, non-corrosive ABS
- Raises pump 2" (5 cm) off bottom of basin
- Provides the ability to raise intake by adding sections of 1-1/2" or 2" (DN40 or DN50) PVC piping
- Attaches securely to pump
- sump, dewatering and effluent applications

NOTE: Make sure float is free from obstruction.

*Fits series 49, 50, 63, 70, 95, 98, 130, 140 and 150.



"Easy assembly"
(pump & discharge pipe not included.)



63

Premium Series

These Premium sump pumps are designed with the very best materials and latest technology. Based on the 50 series sump pump, considered one of America's most popular sump pumps, this product offers advanced switch technology allowing for longer switch life.

This model is constructed of the same heat-dissipating cast iron with powder coated epoxy finish, providing maximum pumping performance under the most extreme conditions. With Zoeller's cool run design, the hermetically-sealed, oil-filled motor and non-clogging vortex impeller add up to a long-lasting, trouble-free product. The heavy-duty power cord also includes the Zoeller LED Plug that allows you to check for power at a quick glance.

APPLICATIONS:

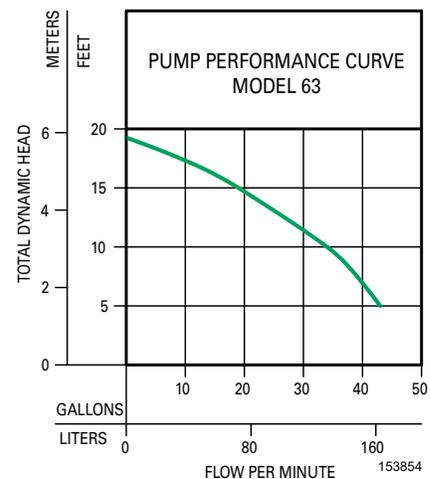
- Water transfer
- Sump systems
- Light commercial
- New sump and residential construction



SPECIFICATIONS:

- 1-1/2" NPT discharge
- 3/10 HP
- 1/2" (12 mm) spherical solids capacity
- Zoeller LED plug
- Available in automatic operation only
- Advanced switch technology
- Viton switch arm boot and heavy-duty power cord
- Cast iron, non-clogging vortex impeller
- Cast iron base

For more information, see Technical Data Sheet FM2899.



95

Premium Series

The Model 95 Premium sump pump is designed with the very best materials and the latest technology.

Based on the 98 sump pump, one of America's most popular sump pumps, this product offers advanced switch technology ensuring longer switch life. The Premium sump pump also provides 10% higher performance (GPM and TDH) over the Model 98.

This model is constructed of the same heat-dissipating cast iron with powder coated epoxy finish, providing maximum pumping performance under the most extreme conditions. With Zoeller's cool run design, the hermetically-sealed, oil-filled motor and non-clogging vortex impeller add up to a long-lasting, trouble-free product. The heavy-duty power cord also includes the Zoeller LED Plug that allows you to check for power at a quick glance.

APPLICATIONS:

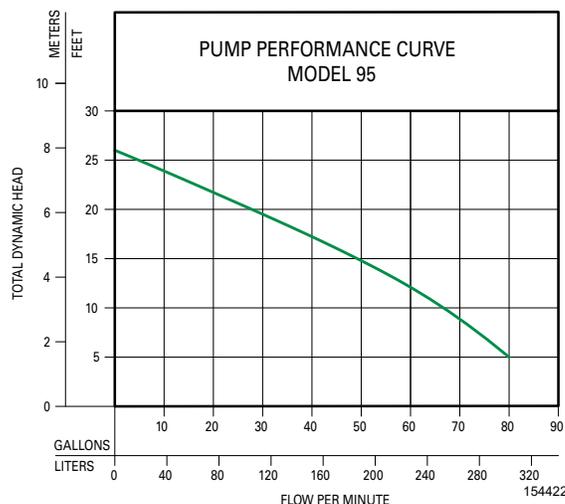
- Water transfer
- Sump systems
- Light commercial
- New sump and residential construction



SPECIFICATIONS:

- 1-1/2" NPT discharge
- 1/2 HP
- 1/2" (12 mm) spherical solids capacity
- Zoeller LED plug
- Available in automatic operation only
- Advanced switch technology
- Viton switch arm boot and heavy-duty power cord
- Non-clogging vortex impeller
- Cast iron base

For more information, see Technical Data Sheet FM2985.



137, 139, 140, 145

Flow-Mate

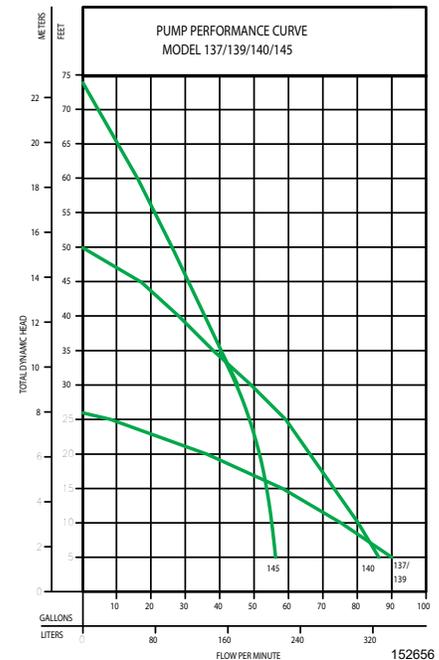
In high head dewatering or effluent applications where pumping performance is critical, this robust family of pumps is known for reliability, durability and performance. These pumps are especially suited for harsh environments. Zoeller's cool run design and corrosion-resistant, powder coated epoxy finish add up to a long-lasting, trouble-free product.

APPLICATIONS:

- STEP or onsite applications
- Water transfer
- Light commercial dewatering

SPECIFICATIONS:

- 1-1/2" NPT discharge
- 1/2 HP through 1 HP
- Available in automatic or nonautomatic
- Model 137, 139, 140: 1/2" (12 mm) spherical solids capacity with vortex impeller
- Model 145: 3/4" (19 mm) spherical solids capacity with vortex impeller
- Bronze construction available (139 series)
- High head version available (145 series)
- Tandem shaft seal versions available for added protection on models 140/145.



For more information, see Technical Data Sheets FM2782, FM2783.

151, 152, 153

Dose-Mate

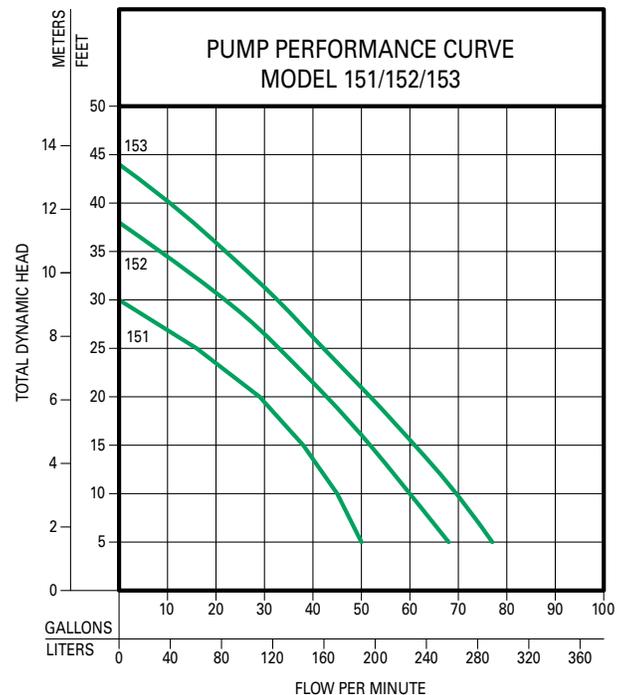
This is our fastest growing line of effluent pumps. The 150 series is truly a workhorse designed for reliability under extreme conditions in an effluent environment. 150 series pump curves cover a wide range of applications. They are well suited to applications with low pressure pipe (LPP) and enhanced flow STEP systems. Zoeller's cool run design and corrosion-resistant, powder coated epoxy finish, in addition to the hermetically sealed, oil-filled motor and non-clogging vortex impeller add up to a long-lasting, trouble-free product.

APPLICATIONS:

- STEP or onsite applications
- Light commercial dewatering

SPECIFICATIONS:

- 1-1/2" NPT discharge
- 3/10 HP through 1/2 HP
- Available in nonautomatic or with a variable level piggyback mechanical switch
- 1/2" (12 mm) spherical solids capacity with vortex thermoplastic impeller



For more information, see Technical Data Sheet FM2784.



161, 163, 165

Flow-Mate

Heavy duty construction with oversized bearings and a balanced bronze, non-clogging vortex impeller allow these pumps to stand up to the highest heads and maximum flows. They are well suited to applications with low pressure pipe (LPP) and enhanced flow STEP systems. Using Zoeller's cool run design, we added fins to these pumps, lowering operating temperatures. The corrosion-resistant, powder coated epoxy finish and hermetically sealed, oil-filled motor add up to a long-lasting, trouble-free product.

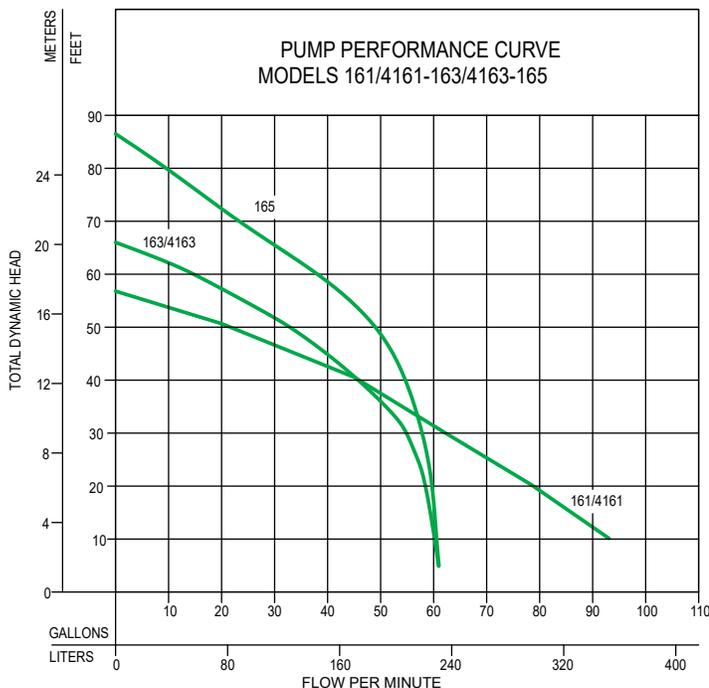
APPLICATIONS:

- Onsite or septic applications
- Enhanced flow STEP systems
- Commercial dewatering
- Sump/dewatering

SPECIFICATIONS:

- 1-1/2" NPT discharge (2" (10-1305) or 3" (10-1306) bolt on flange available)
- 1/2 HP through 1 HP
- Available in automatic or nonautomatic
- 3/4" (19 mm) spherical solids capacity with cast iron vortex impeller
- Tandem shaft seal versions available for added protection
- Thermally protected motor

For more information, see Technical Data Sheet FM2785.



009920A



185, 186, 188, 189, 191

Flow-Mate

Heavy duty construction with oversized bearings and a balanced bronze, non-clogging vortex impeller allow this series of pumps to stand up to the highest heads and maximum flows. They are well suited to applications with low pressure pipe (LPP) and enhanced flow STEP systems. Using Zoeller's cool run design, we added fins to these pumps, lowering operating temperatures. The corrosion-resistant, powder coated epoxy finish and hermetically sealed, oil-filled motor add up to a long-lasting, trouble-free product.

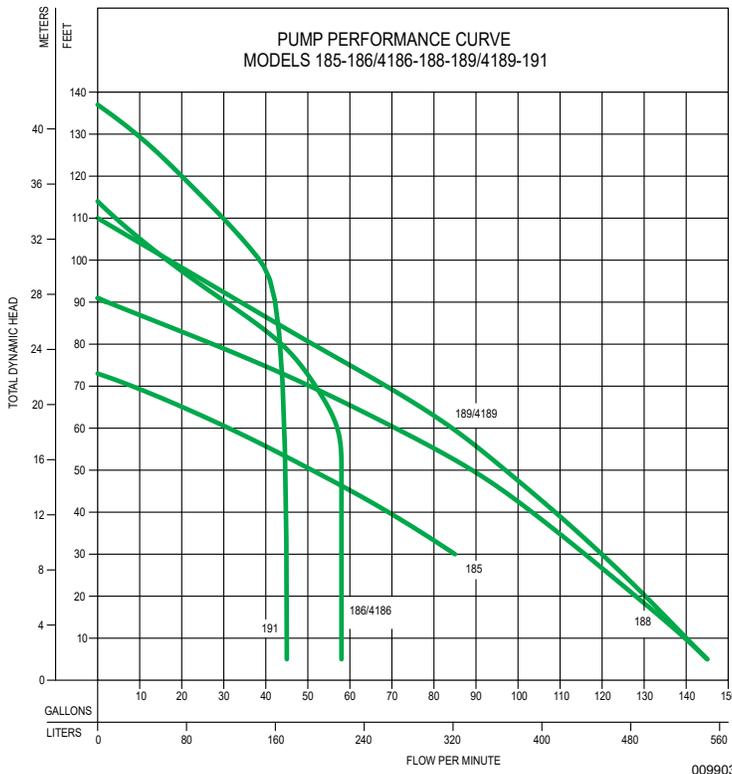
APPLICATIONS:

- High head onsite or septic applications
- Enhanced flow STEP systems
- Commercial dewatering

SPECIFICATIONS:

- 1-1/2" NPT discharge (2" (10-1305) or 3" (10-1306) bolt on flange available)
- 1 HP through 2 HP
- Available in automatic or nonautomatic
- Model 180 Series: 3/4" (19 mm) spherical solids capacity with cast iron vortex impeller
- Model 191: 5/8" (16 mm) spherical solids capacity with bronze vortex impeller
- Tandem shaft seal versions available for added protection
- Thermally protected motor

For more information, see Technical Data Sheet FM2786.



Self-testing Backup Systems

Z Control Enabled Systems

The Aquanot® Fit self-testing sump pump systems take over when the main power is interrupted or the primary pump isn't getting the job done. The powerful, self-testing smart-controllers overcome problems caused by dormancy and system neglect. Fit is internet-connected through Zoeller's Z Control® Platform, granting users free 24/7 monitoring and remote control of equipment with the Z Control® mobile app or web interface. You can also receive free emails, texts, and push notifications about system status and alerts.

U.S. Patent No. D740329



The best protection money can buy!

- Highest performance and efficiency pump
- Two independent switches, supervised by controller
- Local alarms and indicators
- Self-testing controller with built-in battery maintenance and alarms
- Z Control® free access
 - Wifi and ethernet connections
 - Remote monitoring and control
 - Email, text and push notifications
 - Additional system data, status, and tools

SPECIFICATIONS:

- 1-1/2" NPT discharge
- Integrated check valves
- Fit includes 508 DC pump Fit controller with built-in wiFi, vertical operational switch, high-water reed sensor switch, battery box, fittings

For more information, see Technical Data Sheet FM3124.



PERFORMANCE

The DC pump performance at 12.7 Vdc

Discharge Feet of Head	5 (1.5 m)	10 (3 m)	15 (4.6 m)	28 (85 m)
Flow GPM (LPM)12.7 volts	43 (163)	35 (132)	27 (102)	Shut-off Head



Free Z Control® account at

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 Search: "Z Control"

AquaNot® Spin 508

Self-testing 12 Volt Battery Backup System

The high performance AquaNot® Spin 508 provides extra protection when a primary AC pump shuts down due to a power outage or another electrical problem. A smart, UL recognized charger/controller with battery burnout and overcharge protection maximizes battery life and provides over 7 hours of continuous pumping. All necessary pipes, valves, and fittings are included to transform your existing system into a complete AC/DC sump pump system. The alarm, light indicators, and self-testing ensure peace of mind for the homeowner.

SPECIFICATIONS:

- Self-testing pump
- Early warning and smart diagnostics
- Supervised switch connections
- Optional high water sensor
- 1-1/2" NPT discharge
- Includes all necessary fittings for installation

For more information, see *Technical Data Sheet FM3165*.



508-0005 shown

AquaNot® Key 507

Self-testing 12 Volt Battery Backup System

Entry level backup system. When basic performance and protection is all that is needed, this quality pump, charger, and switch will provide peace of mind.

SPECIFICATIONS:

- Solid performance pump
- Fully automatic pump and charger
- Heavy duty, fully automatic, supervised switch
- Self-testing controller
- 3 year limited warranty

For more information, see *Technical Data Sheet FM2804*.



507-0005 shown



Preassembled 12 Volt Battery Backup & Primary Sump Pump Packages

Save time and money with our top selling primary and backup sump pump packages. These systems are factory assembled with 1-1/2 schedule 40 PVC pipe and fittings for simple drop-in" installation. Packages come with switches, automatic, agency approved charger/controllers, and an efficient pump providing up to 7 hours of continuous pumping on battery-only power. Battery burn-out, overcharge protection, and diagnostics are also included for added peace of mind.

ProPak models include choices of primary pumps: 73, 53, 63, and 98. Zoeller LED Plug comes standard on all primary pumps available with the Spin and Fit ProPak Systems.

* Primary electric sump pump only included with ProPak models. U.S. Patent No. D740329



SPECIFICATIONS:

- 508 pump rated 2,040 GPH @ 10'
- M53®/63 pump rated 2,040 GPH @ 10'
- M98 pump rated 3,660 GPH @ 10'
- All primary pumps with this system include the Zoeller LED Plug that allows you to check for power at a quick glance.
- Self-testing and battery monitoring system for peace of mind
- Intelligent multi-stage charger/controller with alarm, light indicator and warning system
- Two independent, supervised switches
 - Heavy duty mechanical operating switch
 - High water sensor with alarm and pump run redundancy
- Built in Wi-Fi
- FREE Z Control® access
 - Email, text, and push notifications
 - Remote monitoring and control
- 3-year limited warranty on system with Models 53® and 98 pumps
- 5-year limited warranty on system with Model 63 pump

For more information, see Technical Data Sheet FM2803.



508-0015 shown



Free Z Control® account at



GET IT ON
Google Play

Download on the
App Store

Search: "Z Control"

ProPak™ AquaNot® Spin 508

SPECIFICATIONS:

- 508 pump rated 2,040 GPH @ 10'
- M53® pump rated 2,040 GPH @ 10'
- M 98 pump rated 3,660 GPH @ 10'
- All primary pumps with this system include the Zoeller LED Plug that allows you to check for power at a quick glance.
- Self-testing and battery monitoring system for peace of mind
- Intelligent multi-stage charger/ controller with alarm, light indicator and warning system
- Heavy duty mechanical operating switch
- Optional - High water sensor with alarm and pump run redundancy
- 3-year limited warranty



508-0007 shown

ProPak™ AquaNot® Key 507

SPECIFICATIONS:

- 507 pump rated 900 GPH @ 10'
- M73 pump rated 1,800 GPH @ 10'
- Fully automatic pump and charger
- Heavy duty, fully automatic, supervised switch
- Self testing controller
- Multi-stage battery charger with component LED indicators and audible alarm
- 3-year limited



507-0013 shown

Zoeller Preassembled Backup Systems

MODEL COMPARISON ZOELLER BATTERY BACKUP SYSTEMS				
(Table FM3219)				
		AquaNot 508 Fit	AquaNot 508 Spin	AquaNot 507 Key
PERFORMANCE GPM @ 10' 12.6 V		34	34	15
RUN TIME with 12 V battery	- continuous	6 hours	6 hours	7 hours
	- 10% duty cycle	48 hours+	48 hours+	48 hours+
Total estimated gallons per battery		11,900	11,900	9,500
Self-testing		Yes	Yes	Yes
Z Control		Yes	No	No
Text/Email/App notification		Yes	No	No
Secondary float		Yes	Optional 10-4830	No
Float monitoring		Yes	Yes	Yes
Battery replacement reminder		Yes	No	No
List of alarms/status		4 local/audible 10 more online	4 local/audible	4 local/audible
Warranty		3 years 5 years w/ M63 Propak	3 years	3 years
Item #		508-0014	508-0005	507-0005
ProPak combo systems primary pump included		with M53®, .3 HP 508-0015 with M98, .5 HP 508-0016 with M63, .3 HP 508-0020	with M53®, .3 HP 508-0006 with M98, .5 HP 508-0007	with M73, .3 HP 507-0013
Batteries All Aquanot batteries are Maintenance Free (MF)		10-1450 AGM 27 10-0761 Flooded 31	10-5184 Dual Battery Kit (contains heavy duty jumper wires and additional battery box)	

540 FLEX

WATER-POWERED BACKUP PUMP

Water-Powered Emergency Backup Sump Pump System

Zoeller's FLEX® is a high capacity, high efficiency, water-powered backup system. The FLEX® takes over seamlessly when your primary sump pump system fails. Horizontal OR vertical installation capability allows FLEX® to fit most sump applications.

APPLICATIONS:

- Continuous pumping during power outage using city water pressure.

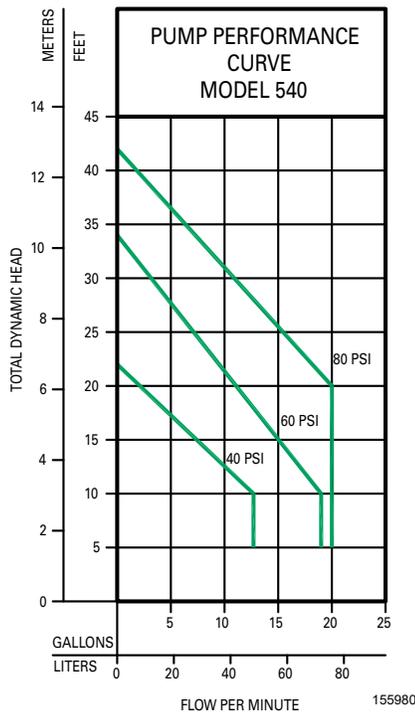
SPECIFICATIONS:

- No electricity or batteries required
- Municipal/city water pressure powered system
- Unit requires 3/4" inlet line to operate properly
- Adaptable to 1-1/4" or 1-1/2" suction pipe
- Engineered for trouble-free operation
- Non-corrosive materials
- Removes up to 2 gallons for every gallon used

For more information, see Technical Data Sheet FM3169



3 YEAR
WARRANTY



264, 267, 270



Considered one of America's most popular sewage ejectors, this robust family of pumps is known for reliability, durability and performance. These pumps are industry-proven, built of cast iron with stainless steel hardware. Comes with an integral, 2-pole, snap-action float switch. The heat-dissipating cast iron body with powder coated epoxy finish provides maximum pumping performance under the most extreme conditions. With a cool run design, the hermetically sealed, oil-filled motor and non-clogging vortex impeller add up to a long-lasting, trouble-free product.

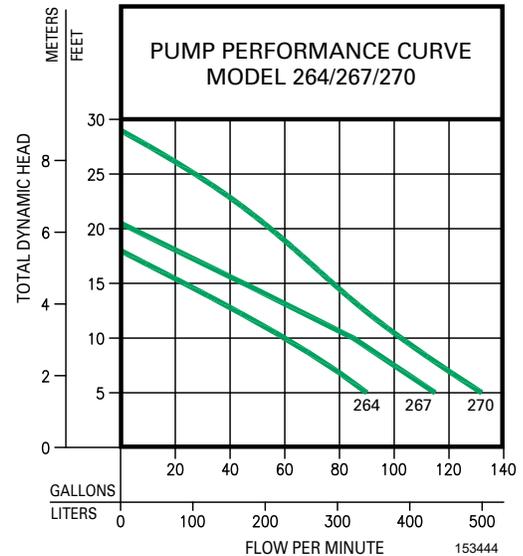
APPLICATIONS:

- Residential and light commercial sewage and dewatering
- New construction
- Wastewater / lift stations

SPECIFICATIONS:

- 2" NPT discharge
- 4/10 HP through 1 HP
- Available in automatic or nonautomatic
- 2" (50 mm) spherical solids capacity with vortex thermoplastic impeller on model 270, cast iron impeller on models 266 and 267
- Model 267 available in 3 phase voltages

For more information, see Technical Data Sheets FM2788, FM2789, FM2790.



212

The Model 212 offers accessible quality for the cost conscious. This submersible pump is designed for use in residential or light commercial sewage applications and can be used to transfer groundwater, effluent, or sewage. The pump includes a cast iron motor housing with a corrosion-resistant, baked-on enamel finish and is designed to provide great heat dissipation from the motor, ensuring a long service life.

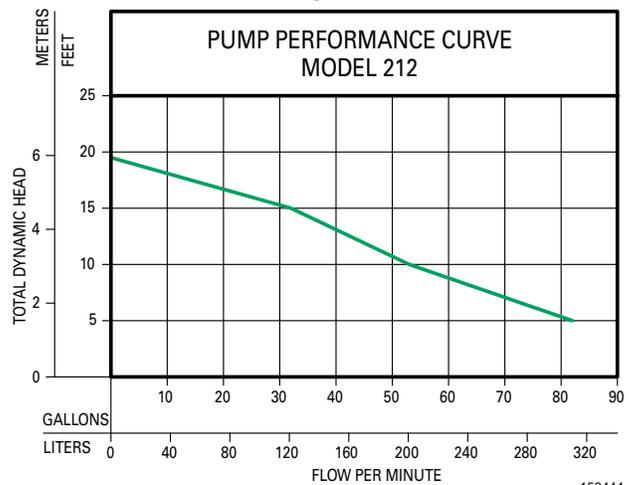
APPLICATIONS:

- Residential sewage
- Water transfer and dewatering
- New construction

SPECIFICATIONS:

- 2" NPT discharge
- 1/2 HP
- 2" (50 mm) spherical solids capacity with non-clogging engineered plastic vortex impeller

For more information, see Technical Data Sheet FM2850.



282, 284

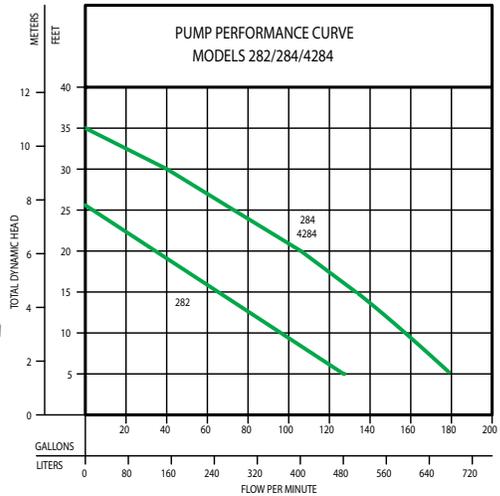
Heavy duty construction, oversized bearings and balanced non-clogging vortex impellers allow these pumps to stand up to the highest heads and maximum flows. Using Zoeller's cool run design, we added fins to these pumps, lowering operating temperatures. The corrosion-resistant, powder coated epoxy finish and hermetically sealed, oil-filled motor add up to a long-lasting, trouble-free product.

APPLICATIONS:

- Commercial sewage and dewatering
- Wastewater
- Lift stations

SPECIFICATIONS:

- 2" NPT discharge, 3" (10-1306) bolt on flange available
- 1/2 HP and 1 HP
- Available in automatic or nonautomatic
- 2" (50 mm) spherical solids capacity with cast iron vortex impeller
- Thermally protected motor
- Tandem shaft seal versions available for added protection



For more information, see Technical Data Sheet FM2791.



009927A

292, 293, 294, 295

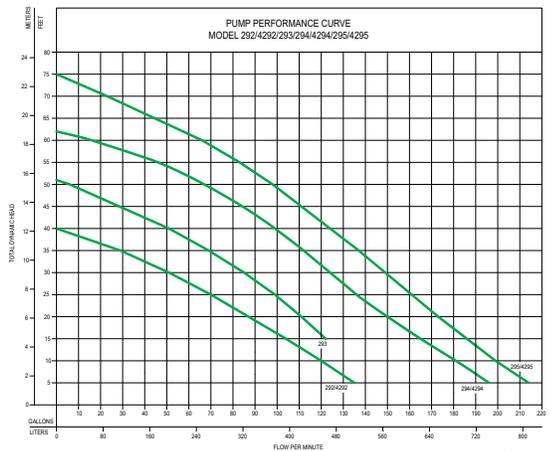
Heavy duty construction, oversized bearings and balanced non-clogging vortex impellers allow these pumps to stand up to the highest heads and maximum flows. Using Zoeller's cool run design, we added fins to these pumps, lowering operating temperatures. The corrosion-resistant, powder coated epoxy finish and hermetically sealed, oil-filled motor add up to a long-lasting, trouble-free product.

APPLICATIONS:

- Commercial sewage and dewatering
- Wastewater
- Lift stations

SPECIFICATIONS:

- 2" NPT discharge, 3" (10-1306) bolt on flange available
- 1/2 HP through 2 HP
- Available in automatic or nonautomatic
- 2" (50 mm) spherical solids capacity with cast iron vortex impeller
- Thermally protected motor
- Tandem shaft seal versions available for added protection



For more information, see Technical Data Sheet FM2792.



009919A

4404, 4405



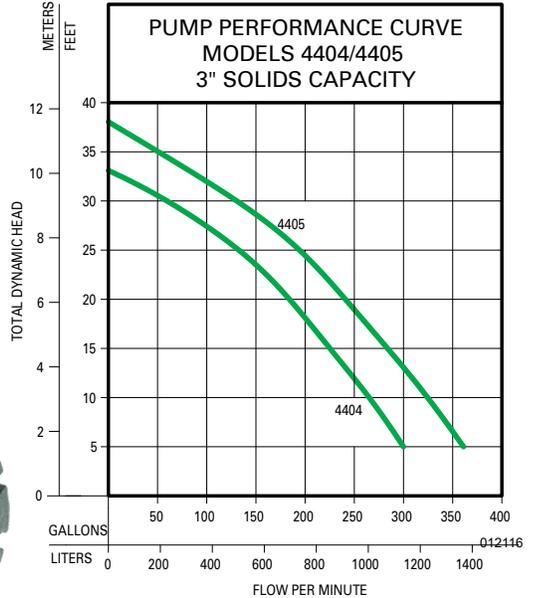
Waste-Mate

Designed to handle large solids and high flow rates, these pumps are ideal for quickly removing water as well as raw waste. Suited for parking lots and storm water transfer, the oversized bearings and balanced non-clogging vortex impellers allow these pumps to meet the most demanding applications. Using our cool run design, we added fins to these pumps, lowering operating temperatures. The corrosion-resistant, powder coated epoxy finish and hermetically sealed, oil-filled motor add up to a long-lasting, trouble-free product. Rail systems are available for ease of installation and removal.

SPECIFICATIONS:

- 4" ANSI flange discharge
- 2 and 3 HP
- Tandem shaft seal versions for added protection
- Thermally protected motor

For more information, see Technical Data Sheet FM2793.



611, 621, 631, 641, 651, 661

Sewage Waste

Engineered for large commercial and industrial applications, these pumps utilize extended vane ductile iron impellers for improved efficiency and performance. The tandem seal design provides additional protection from abrasives typically found in demanding applications. Cooling fins, not commonly found in this type of pump, lower operating temperatures, providing longer motor and bearing life. Rail systems are available for ease of installation and removal.

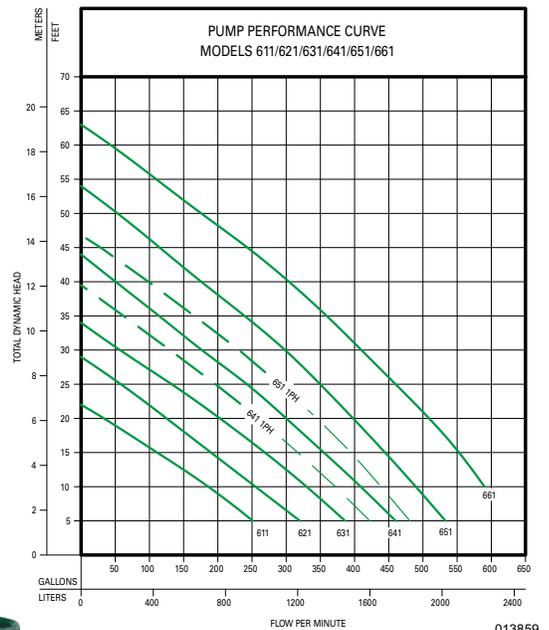
APPLICATIONS:

- Industrial and commercial wastewater
- Storm water removal
- Engineered lift stations

SPECIFICATIONS:

- 3" NPT vertical or 3" or 4" ANSI flange discharge
- 1 HP through 7-1/2 HP
- 2-1/2" (64 mm) spherical solids capacity with cast iron, two vane, semi-open impeller
- Hazardous location/explosion proof, nonautomatic version also available
- Tandem shaft seal for added protection

For more information, see Technical Data Sheet FM2794.



912 Package Systems

Simplex Sewage Package Systems (Job Ready/Assembled)



SPECIFICATIONS:

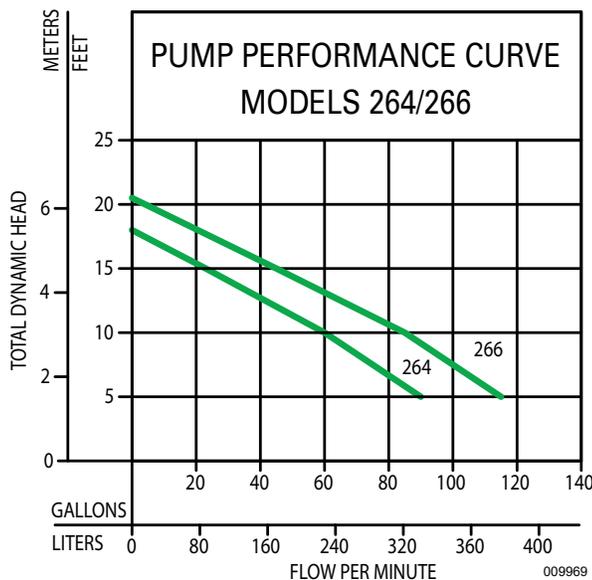
- More choices, easier installation and fast delivery
- Saves labor and reduces installation errors
- 2" (50 mm) solids-handling pump
- 2" PVC discharge pipe, 30" (76 cm) long on 18" x 30" (46 x 76 cm), 24" (61 cm) long on 24" x 24" (61 x 61 cm)
- Basins - polyethylene, poly-foam or fiberglass construction with poly or solid steel covers and 4" pipe seal hub, 4" PVC hub (deluxe) or 4" cast iron hub on L.A. Code Systems
- Check valve options - 30-0151, 30-0020, 30-0021, 30-0101 or 30-0103 (not included)
- Systems available with alarms and preinstalled alarm float.
- Side discharge systems rated for outdoor burial: solid polyethylene on side
- 3/16" (5 mm) vent hole drilled

See FM3467 for further information.



912-0007 shown

24" X 24" Simplex Sewage System



See FM2810 for further information.



912-1141 shown



GRINDER PUMPS 802

Fractional HP Grinder Series built with the homeowner in mind. All cast iron motor and discharge designed for difficult residential applications where ejectors struggle. Handles entire household of “flushable” materials without commercial cost. The 2” discharge makes it easy to change out any solids handling sewage pump.

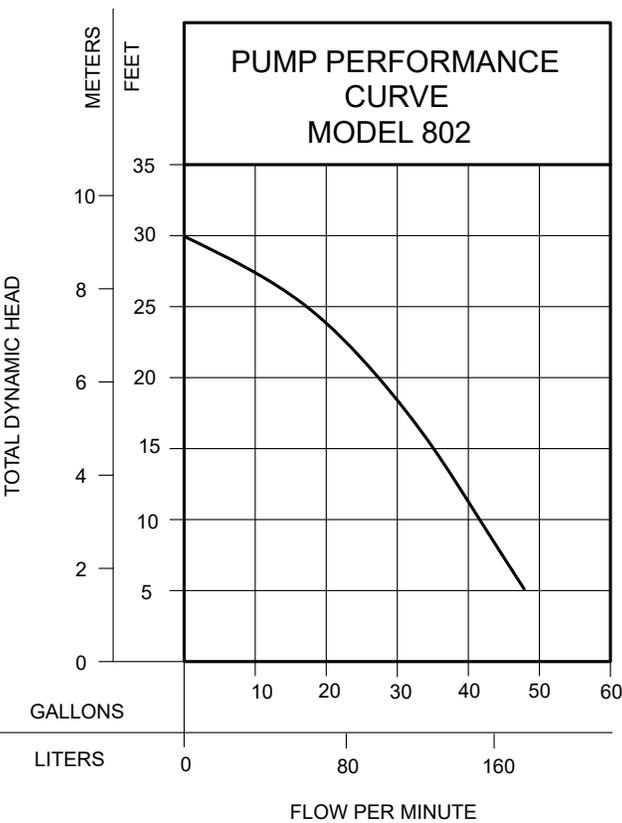
APPLICATIONS :

- Residential wastewater

SPECIFICATIONS:

- 2” NPT discharge
- Integral automatic float switch
- Oil-filled for optimal heat dissipation

For more information, see FM3498.



159400





803, 805, 807

Fractional HP Grinder Series. World's first integral automatic grinder. All cast iron grinder series for difficult residential applications where ejectors struggle. Handles entire household of "flushable" materials. Available in 115V or 200-230 volt for residential use without commercial costs.

U.S. Patent No. 8,562,287

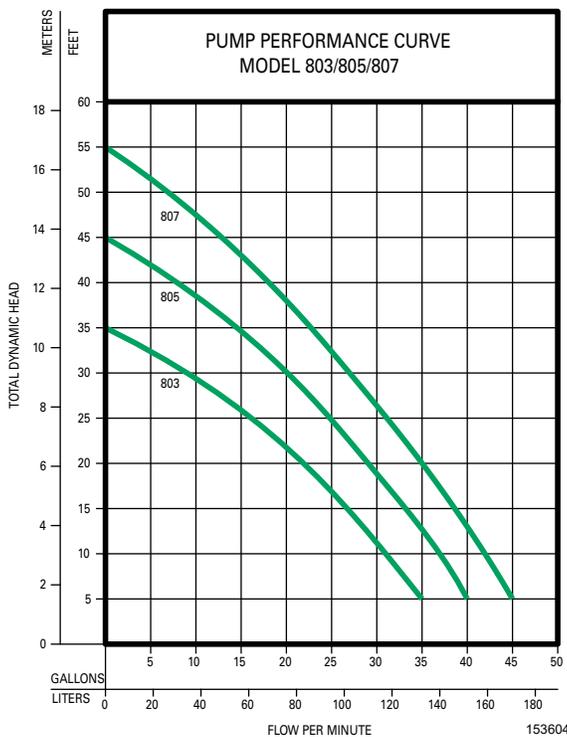
APPLICATIONS :

- Residential wastewater
- Light commercial

SPECIFICATIONS:

- 1-1/4" NPT discharge
- 803 - 1/2 HP, 805 - 3/4 HP, 807 - 1 HP
- Cast iron construction
- Oil-filled for optimal heat dissipation
- Thermally-protected motor

For more information, see Technical Data Sheet FM2882.



Available in package systems. See page 25

818, 820 Grinder Pumps 1.0 & 2.0 HP

This pump is constructed of corrosion-resistant cast iron with a powder coated epoxy finish and stainless steel hardware. The hardened stainless steel Tri-Slice® cutter provides scissor-action style cutting that helps eliminate binding and roping of material around the cutter. The thermally protected, oil-filled motor and external cooling fins allow the pump to run cooler. Available in single phase and three phase configurations.

U.S. Patent No. 8,562,287

APPLICATIONS:

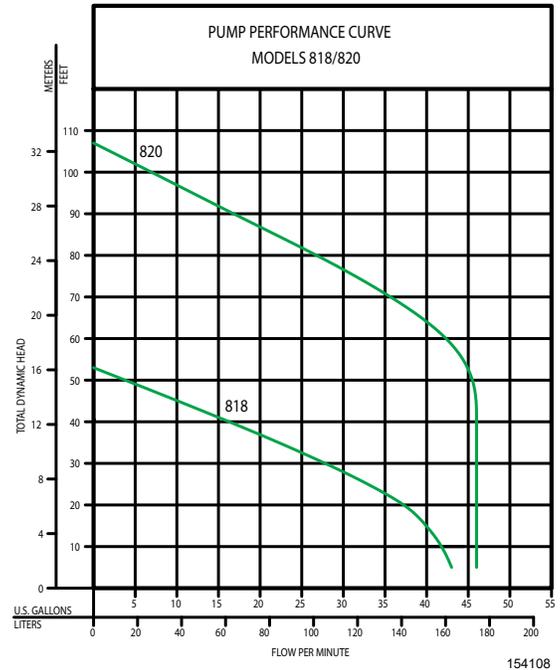
- Residential and light commercial sewage grinder applications
- Pressure sewer systems

SPECIFICATIONS:

- Tri-Slice®, two-bladed, high-torque cutter
- Scissor-style cutting action shreds solids down to 7/32" (5 mm) and smaller
- 1-1/4" NPT discharge
- Rockwell C55-60 hardened 440C stainless steel cutter and disc
- Vortex impeller



Tri-Slice®, two-bladed, high-torque cutter



840, 841 2 HP Grinder Pumps, Reversing & Single Directional

Constructed of corrosion-resistant cast iron with a powder coated epoxy finish and stainless steel hardware, built for years of reliable service. The thermally protected, oil-filled motor and external cooling fins allow the pump to run cooler than most. The hardened 440C stainless steel star shaped cutter provides scissor-action style cutting that helps eliminate binding and roping of material around the cutter. The 840 Shark® offers the industry's only automatic, reversing impeller and cutter assembly that virtually doubles the service life of ordinary grinder.

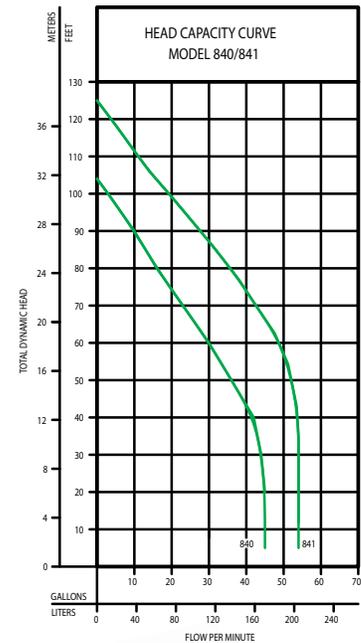
APPLICATIONS:

- Residential, commercial and municipal sewage grinder pump systems
- Pressure sewer systems

SPECIFICATIONS:

- Double shaft seal for added protection
- Moisture detection and temperature protection
- 1-1/4" NPT discharge
- Model 840 AUTO-REVERSING star-cutter eliminates clogging
- Rockwell C55-60 hardened 440C stainless steel cutter and disc
- Vortex impeller
- Hazardous location/explosion proof version available

For more information, see Technical Data Sheet FM2799.



810, 815

Progressing Cavity Grinder Pump

Designed for high pressure sewer systems, our Shark® Series progressing cavity grinder pumps offer a head capacity up to 240 feet (73 m). Constructed of corrosion-resistant cast iron with a powder coated epoxy finish and stainless steel hardware, these pumps are built for years of reliable service. The thermally protected, oil-filled motor and external cooling fins allow the pump to run cooler. An internal pressure relief valve protects the motor and hydraulic components from extreme spikes in sewer pressure. The hardened stainless steel Tri Slice® cutter provides scissor-action style cutting to virtually eliminate binding and roping of material around the cutter.

APPLICATIONS:

- Residential sewage removal for pressure sewer systems
- Pressure sewer systems

SPECIFICATIONS:

- 1-1/4" NPT discharge
- 1 and 2 HP
- Rockwell C55-60 hardened 440C stainless steel cutter and disc

For more information, see Technical Data Sheet FM2796.



932

Simplex Replacement Grinder

The Progressing Cavity Grinder Replacement Pump easily adapts to a competitors' system. The oil-filled, hermetically sealed, cool run motor design and hardened stainless steel cutter ensure long life and minimal maintenance. Unit comes completely assembled with check valve, anti-siphon valve, pressure relief valve, quick disconnect plumbing coupling and electrical receptacle fitting. Includes high level alarm as an added convenience.

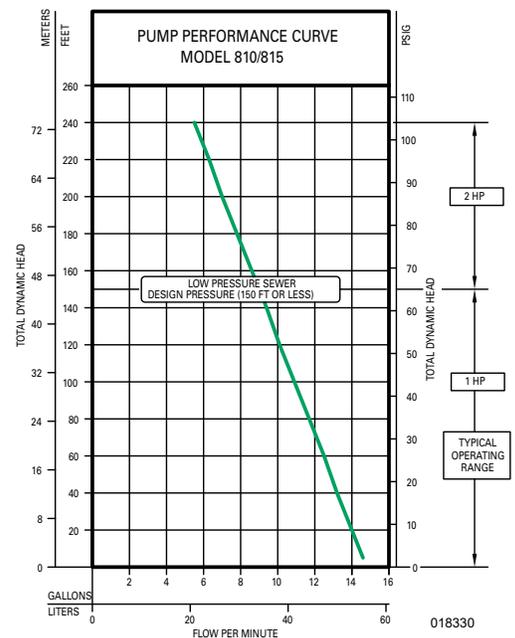
APPLICATIONS:

- Retrofit for existing progressing cavity grinder systems
- Pressure sewer systems

SPECIFICATIONS:

- 1-1/4" NPT discharge
- Bolts to existing progressing cavity grinder pump systems
- Rockwell C55-60 hardened 440C stainless steel cutter and disc

For more information, see Technical Data Sheet FM2465.



915 Package Systems

1/2 & 1 HP Packages

The fractional HP grinder pumps are now available in package systems. This job-ready (non-suspended) system uses our innovative, stainless steel Tri-Slice® cutter, which requires little or no maintenance. The hardened stainless steel cutter is ideal for handling difficult solids such as wipes, rags, towels, etc. that can jam traditional style ejector pumps.

APPLICATIONS:

- Residential wastewater
- Light commercial

SPECIFICATIONS:

- 1-1/4" top discharge
- 803 - 1/2 HP, HP, 807 - 1 HP
- Cast iron construction
- Oil filled for optimal heat dissipation
- Available in 18" x 30" (46 x 76 cm) polystructural foam or 24" x 24" (61 x 61 cm) poly basin. Consult factory for additional options.
- Thermally-protected motor



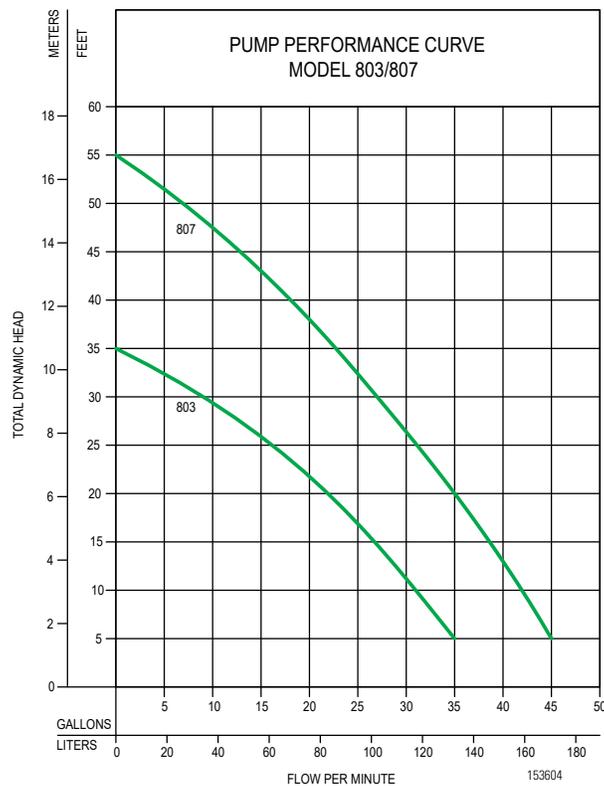
18" x 30" (46 x 76 cm)



10-4012



Cutter Blade



24" x 24" (61 x 61 cm)

For complete product information, visit: zoellerpumps.com

QLS SERIES

PREFABRICATED LIFT STATIONS WITH Z-RAIL® TECHNOLOGY

Complete effluent sewage or grinder package systems are factory assembled for quicker, easier installation at the jobsite. Zoeller's Z-Rail® Technology with powder coated, ductile iron elbows and brackets provides longer life and reliability. Dual-rail system offers added support and stability while raising and lowering pumps compared to single-rail systems. A wide variety of basin diameters and depths are stocked to accommodate almost any job. Cover choices include solid fiberglass and either steel or aluminum hatches.

Z-Rail® System

Both the disconnect portion and the upper guide rail supports are made of domestic epoxy powder coated ductile iron, providing superior strength. Dual guide rails add stability, ensuring that the pump will not spin on the rail during installation or removal.

Basin

Zoeller Company stocks many different basin and cover options to fit a multitude of wastewater collection projects. Basin sizes from 24" x 48" to 48" x 120" meet most application needs. Customized packages available.

Basin Cover

Solid fiberglass, aluminum hatch, and steel hatch covers are stocked for QLS Series® packages.

Three Way Ball Valve

The QLS Series® systems utilize a 3-way ball valve in duplex configurations. The valve is positioned so that the service providers can easily isolate pumps without entering the basin.

Pipe Seal Hub

A 4" pipe seal is provided as a convenient field-installed inlet hub.

AFD

QLS Series® basins come with an anti-floatation collar to resist buoyancy in high groundwater locations.

Flex-Boot Discharge Connection

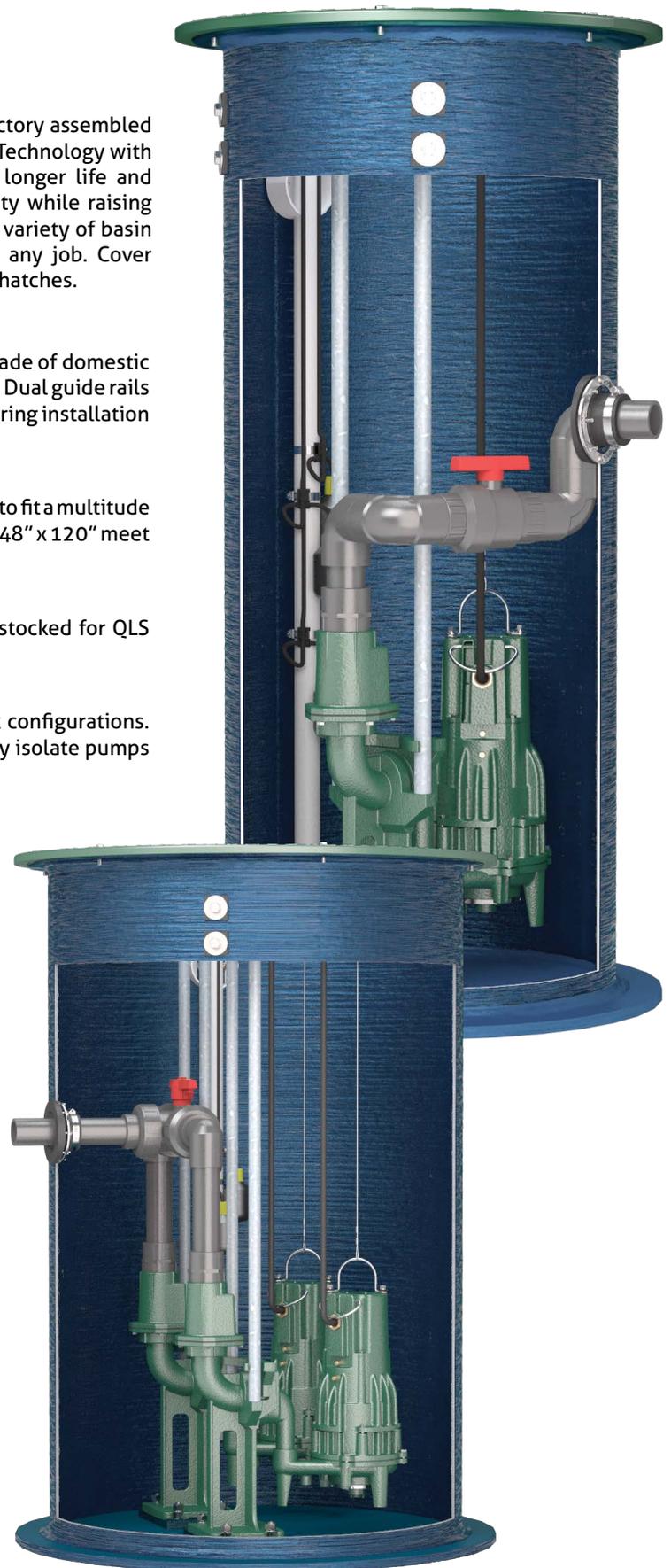
A flexible, stable discharge seal remains watertight despite external pressures due to pipe settling.

Schedule 80 PVC Piping

Schedule 80 PVC discharge piping provides greater support and dependability with its thicker walls and higher pressure rating.

Engineered Lift Stations

Zoeller offers a complete line of prepackaged and preassembled lift stations using sump, effluent, sewage or grinder pumps! Utilizing everything from a small 1/2 HP pump to the large 7-1/2 HP non-clogging pump, Zoeller will prefabricate any lift station as an engineered factory built system. The headache of keeping track of product compatibility is eliminated, and the contractor is ensured that each system's components will properly operate with one another, and simplify installation.



Model 519 and Model 522

This fully automatic, easily installed, condensate pump removes condensation from air conditioning equipment, condensing furnaces, dehumidifiers, ice makers, water coolers and refrigeration systems.

APPLICATIONS:

Automatically removes condensation from a variety of systems including air conditioning units, dehumidifiers and refrigeration systems.

SYSTEM INCLUDES:

- Handles condensate up to 140 °F (60 °C)
- 20 ft (6.1 m) TDH
- Wall mounts
- Four inlet options (Model 519), two inlet options (Mode 522)
- 3/8" Discharge
- Stainless steel shaft
- Built-in safety switch and check valve
- 6 ft power cord with ground
- Thermally protected
- Option available to include 20' of 3/8" clear tubing
- Built-in check valve
- Safety switch and alarm indicator lights
- Oversized reservoir

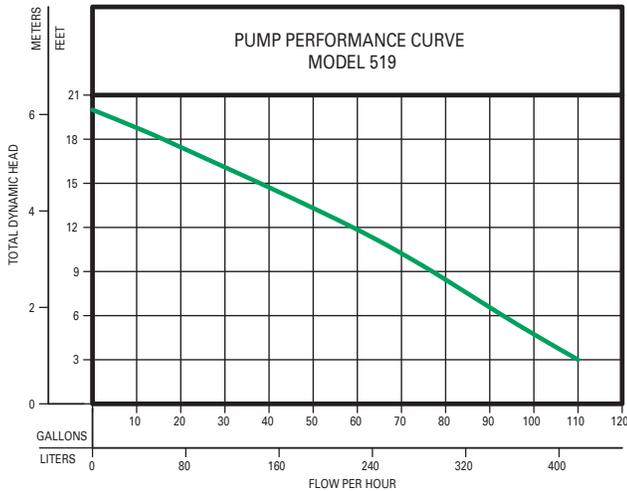
For more information, see Technical Data Sheet FM2808.



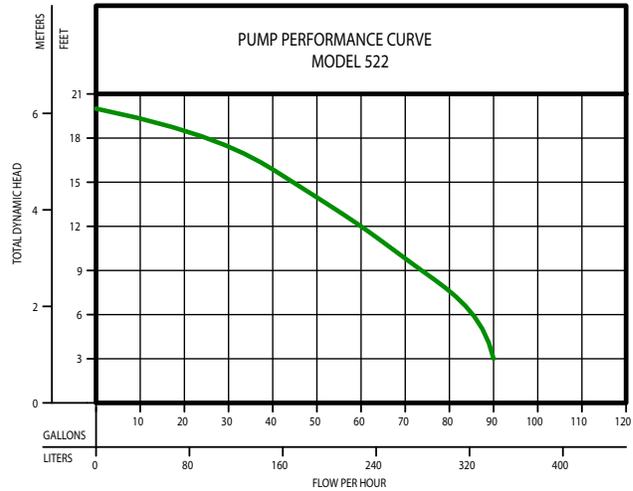
Model 519



Model 522



155405



155802

Inline Switches

for use with Condensate Pumps 10-4754;

Inline Switch, 10-4755

- Identifies clogs or blockages in the condensate drain line
- Deactivates equipment and notifies user of a possible overflow situation
- Installed in-line on A/C equipment directly at the drain pan outlet or directly at the secondary drain pan outlet



Model 10-4755



Model 10-4754

Add a bathroom almost anywhere without breaking concrete!

- Allows for the addition of a bathroom in previously unplumbed locations
- Easy to install as a freestanding unit or as a discrete installation behind the wall
- Collects used water from all fixtures including sinks, faucets, tubs, showers, and more
- Automatic reset protects the pump from thermal overload
- No gravity drain required
- Non-clogging vortex impeller for reliable operation
- Smooth surface for easy cleaning



Patent No.: US 11,905,695 B2

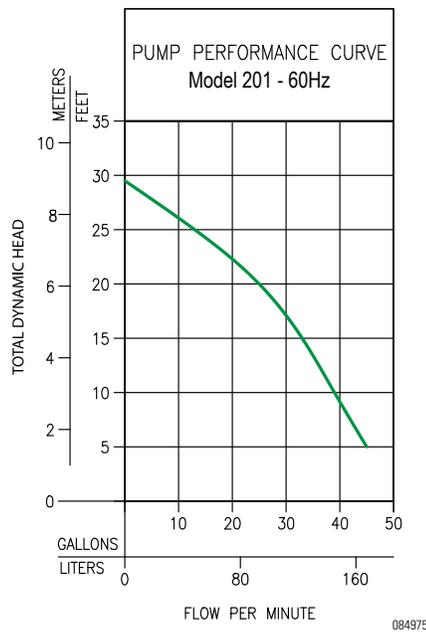
SPECIFICATIONS:

- Quiet, preassembled 1/2 HP grinder pump system
- Carbon/ceramic mechanical shaft seal for long life
- Upper and lower ball bearings for efficient and quiet operation
- Non-clogging vortex impeller for reliable operation
- Withstands total immersion (IP68)
- 1" Discharge elbow with built-in check valve
- Standard 6' (1.8 m) cord with right angle plug
- Tri-Slice® Cutter Technology - three independent cutting channels provide over 250,000 cuts per minute
- Premium investment-cast 440C stainless steel cutter and cutter plate
- Flushables: toilet paper, organic waste, and sanitary items
- For residential and light commercial applications

For more information, see Technical Data Sheet FM3344.



PN# 201-0006 (UNIT ONLY, toilet sold separately)



084975

Qwik Alarm™

(Model 10-5090) - for use on the Premier where a separate vent is used.



- An audible alarm that alerts when the tank water level is high
- Convenient snap-fit cover provides easy access to alarm settings and the battery compartment
- Smooth white polypropylene case that is easy to clean
- Preassembled alarm and seal for quick and easy installation
- Low profile, compact design blends in well in a bathroom setting
- IPX8 rated device that can withstand periods of total immersion, so it is ideal for damp areas

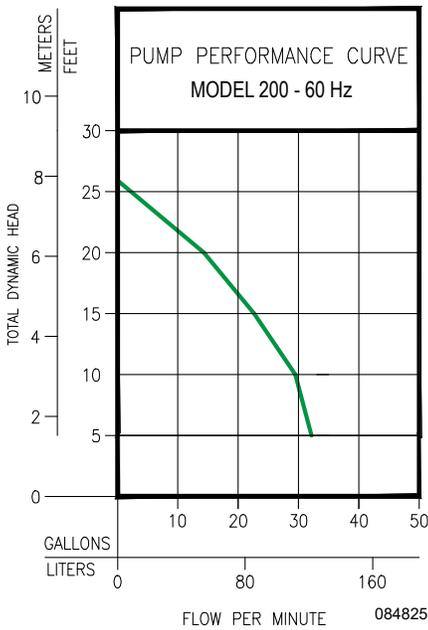
10-5090 Qwik Alarm™ for Qwik Jon® Premier

QWIK JON CHOICE

SPECIFICATIONS:

- A quiet, preassembled 1/3 HP pump and macerator system
- Carbon/ceramic mechanical shaft seal for long life
- Upper and lower ball bearings for efficient and quiet operation
- Non-clogging vortex impeller for reliable operation
- Recessed side handles for carrying
- Convenient snap-fit covers for easy access to macerator and electrical junction box
- Discharge elbow with built-in check valve
- Standard 6' (1.8 m) cord
- Flushables: toilet paper and organic waste
- For residential applications

For more information, see Technical Data Sheet FM3343.



P/N# 200-0006 (QJC ONLY, toilet sold separately.)

Qwik Jon® Toilet



202-3003 Qwik Jon Toilet Tank and Lid.
202-3002 Elongated Toilet Bowl.



*Model 1.28 only



Model 202 - for all Qwik Jon® models.

- ADA compliant elongated bowl
- EPA Water Sense compliant toilet with 1.28 gallon (4.8 L) per flush includes flush handle, fill and flush valve
- Rear spigot toilet for direct connection to any Qwik Jon® model

For a complete system, order:

- 201-4000 - (includes the Qwik Jon® Premier and toilet) delivered in three boxes.
- 200-4000 - (includes the Qwik Jon® Choice and toilet) delivered in three boxes

Optional Extension Kit

(Model 023260) - for recessed or behind-the-wall installations. Can be used with all Qwik Jon® models.

Drain Pumps

Put A Sink Anywhere



Unassembled Model 131



These are our most versatile water collection systems. No need to dig a sump pit or re-route plumbing drain lines. This compact system includes everything you need to remove water from areas without gravity drains. Excellent for bar sinks, laundry trays or condensate removal. There are no inlet filters to clean, and easy compression fittings make for quick and trouble-free installations. As an added bonus, the P-trap can be located inside the tank if necessary.

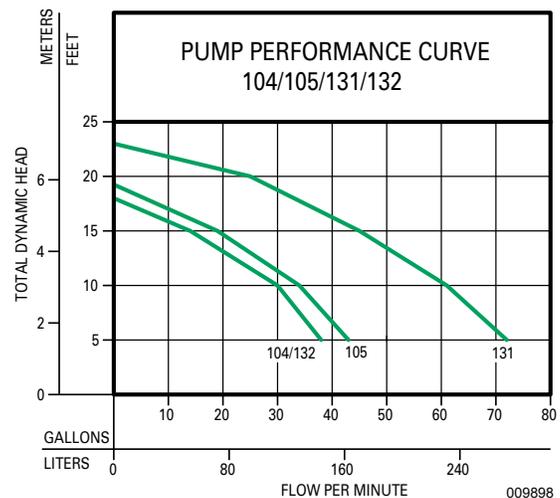
APPLICATIONS:

- Under bar
- Beauty salon / parlors
- Work sinks
- Laundry trays

SPECIFICATIONS:

- 1-1/2" NPT discharge with 1-1/2" threaded vent
- 5 gallon (19 liter) capacity poly basin
- Includes 1-1/2" check valve

For more information, see Technical Data Sheet FM2801.



	104	105	131	132
Preassembled	N	Y/N	N	Y
Pump Model	M73	M53	M98	M73
Pump Construction	Engineered plastic	Cast iron with plastic base	All cast iron	Engineered plastic
HP	1/3	3/10	1/2	1/3
AMPS	3.1	9.7	9.4	3.1
RPM	3400	1550	1725	3400
Solids passing	3/8" (9 mm)	1/2" (12 mm)	1/2" (12 mm)	3/8" (9 mm)
Max temp.	110 °F (43 °C)	130 °F (54 °C)	130 °F (54 °C)	110 °F (43 °C)
Cord length	9' (2.7 m)	9' (2.7 m)	15' (4.6 m)	9' (2.7 m)
Check valve	All systems include a check valve. Preassembled systems include a space-saving, internal check valve threaded into the discharge of the pump.			
Warranty	2yr	3yr	3yr	2yr

Crawl Space[®]

Moisture and Mold Protection

This system is designed specifically with tight or restricted spaces in mind. Indoors or outdoors, eliminate standing water from areas without proper drainage. Prevent the accumulation of moisture, fungus, and odors commonly found in residential crawl spaces. The perforated basin and solid lid keep large debris from entering the pit, eliminating maintenance.

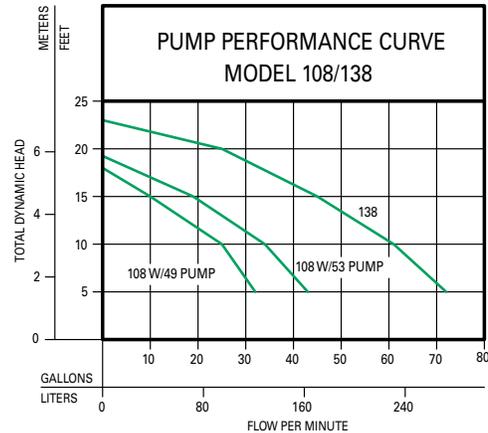
APPLICATIONS:

- Dewatering in crawl spaces
- Dewatering under mobile homes

SYSTEM INCLUDES:

- Automatic pump
- 24' (7 m) hose
- Tank assembly
- Check valve

For more information, see Technical Data Sheet FM2802.



109 Scale Removal Series

SRS[®] SCALE REMOVAL SYSTEM

This preassembled system is engineered to meet the flushing requirements of tankless water heaters. An internal, reusable filter sock captures debris removed from the pipe system. A durable, air-filled 1/6 HP submersible pump and 3/4" stainless steel braided flush lines ensure quality and reliability for years of trouble-free performance. Recommended by professionals job after job, this system is an ideal and economical tool for plumbing contractors who install and service tankless water heating systems.

Patent pending

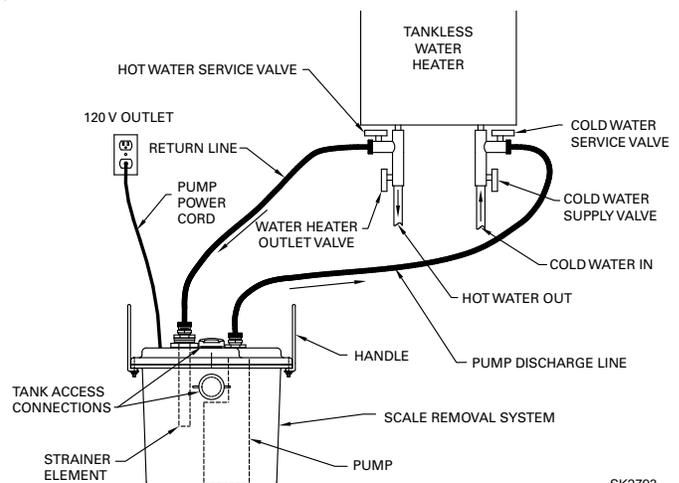
APPLICATIONS:

- Removes line build-up in tankless water heating units

SYSTEM INCLUDES:

- 1/6 HP pump
- Stainless steel braided hoses
- Poly tank with sealed cover
- Fittings

For more information, see Technical Data Sheet FM2807.



Oil Guard® Systems

Engineered to recognize the difference between water and oil, these systems help protect the environment and equipment from the dispersion of oils and/or hydrocarbons by only pumping water. They are perfect for elevator sumps, transformer vaults, or other applications where there is a need to remove water containing oil. Independently verified by OnSpeX, division of CSA, the Oil Guard® includes one of four pump models, Oil Smart® Pump Switch and alarm. Multiple features and options are available including NEMA-4X alarm panel enclosure, audible and light alarms and dry contacts. Turn this product into a connected device using the Z Control® Cloud. Monitor dry contacts to receive email, text, and push notifications.

APPLICATIONS:

- Elevator vaults
- Transformer vaults
- Boat hulls

SPECIFICATIONS:

- NEMA 4X alarm panel includes dry contacts for remote alarm
- Elevator systems require a minimum 50 GPM (189 LPM) and a maximum 6' (2 m) pump cord
- Custom systems available

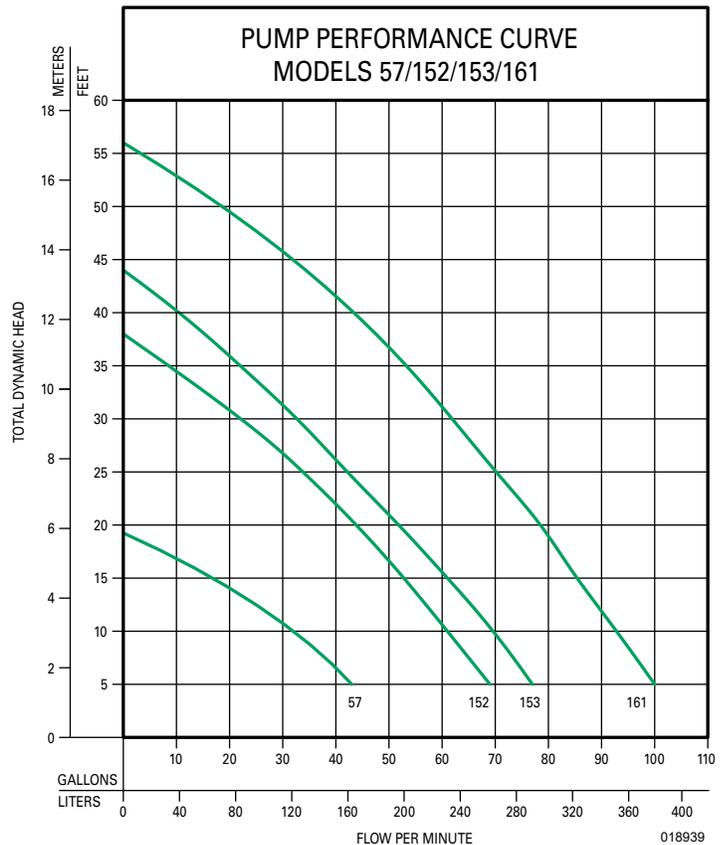
For more information, see Technical Data Sheet FM2809.



10-2149
Simplex panel



10-2150
Duplex panel



For complete product information, visit:
zoellerpumps.com

High-Temp Pumps

This series of submersible pumps is designed for use in residential or commercial dewatering applications and can be used to transfer groundwater and wastewater. These durable cast iron pumps include a powder coated epoxy finish to prevent corrosion and are designed to meet specifications with assurance by using high temperature parts rated for continuous 200 °F (93 °C) contact. Available in a variety of models and performances, each pump is 100% factory tested to ensure quality and reliability for years of trouble-free performance! This attention to detail is an inherent feature of every model in this pump series, making it one of the most reliable in the industry.

APPLICATIONS:

- Commercial laundry facilities
- Boiler blow down application
- Maintenance facilities

SPECIFICATIONS:

- 2000 Series rated for intermittent 200 °F (93 °C)
- 3000 Series rated for continuous 200 °F (93 °C)
- 1-1/2" – 3" NPT discharge
- 3/10 HP through 1/2 HP
- Available in automatic or nonautomatic

For more information, see Technical Data Sheet FM2811.



Model 2057



Model 3098

Agricultural Models 4290 and 4291 High Head Pump

This series of submersible sewage pumps is designed for use in agricultural applications, lagoon recirculation systems, and sump pit systems. These durable cast iron pumps include a powder coated epoxy finish to prevent corrosion and a hermetically sealed, oil-filled motor housing that provides great heat dissipation and keeps the pumps running cooler. The non-clogging vortex impeller design reduces the risk of clogging and provides great solids passing capability.

APPLICATIONS:

- Specifically designed for lagoon or sump pit applications
- Farming industry
- Agricultural industry

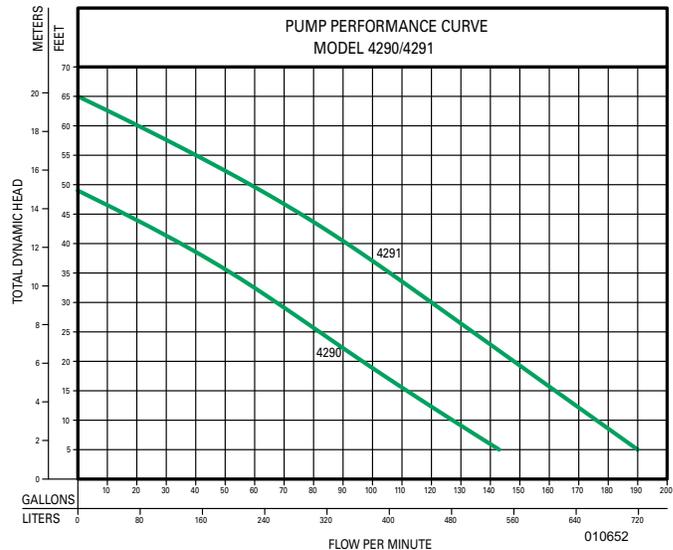
SPECIFICATIONS:

- 2" NPT discharge (available with 3" NPT bolt-on flange)
- 1/2 HP through 1 HP
- Available in automatic or nonautomatic
- 1-1/2" (38 mm) spherical solids capacity with bronze vortex impeller
- Tandem seals with silicon carbide/silicon carbide lower seal and carbon/silicon carbide upper seal

For more information, see Technical Data Sheet FM2812.



Model 4290



Aeration/Fountain

Model 370

This aeration and fountain pump adds a unique focal point and value to your property. The environmentally friendly, water-cooled motor eliminates pollution risk and pond contamination. The continuous-duty pump operates in 5' (1.5 m) or more of water and aerates up to 4,900 gallons (22,276 L) per hour. It produces a water fountain up to 15' (5 m) in height, and it includes three easily interchangeable patterns. The flotation system incorporates a UV-resistant, polyethylene float and eye-bolts for anchoring.

APPLICATIONS:

- Golf courses
- Subdivisions
- Office parks
- Reduces mosquitoes
- Helps eliminate stagnant water

SPECIFICATIONS:

- Preassembled with 100' (30 m) GFCI protected power cord

For more information, see *Technical Data Sheet FM2813*.



SmartPak® Plus

10-0804 Residential Alternator System

Alternates two automatic pumps up to 1/2 HP, 12 amps each, 115 V, single phase (not to be used with any model grinder pump)

SPECIFICATIONS:

- Extends pump life
 - Compact design easily mounts in confined spaces
 - Circuit fault protection
 - Specially designed for humid areas
 - Universal connection for alarm switch replacement
 - Auxiliary output contacts (normally open) for remote alarm connection
 - Solid green LED lights for Pump 1, Pump 2 and Power
 - Flashing red LED lights for alarm conditions
 - 9' (2.7 m) power cord
 - Multiple alarm modes will alert user to potential problems and protect property by switching to the other pump when necessary
- Alarms include:
- High water
 - Loss of power
 - Continuous pump run
 - Breaker tripped
 - Pump failure
- Button for Silence and Reset
 - Built-in, rechargeable battery will operate the alarm and LED lights for a limited time during power outage



Note: Not to be used with any model grinder pump.



ZControl® Gateway

90002-0001

Use the Wi-Fi Gateway to connect your Zoeller product (Pivot Pro and LPS control panels) to the Z Control® Cloud in just a few simple steps. Connecting to the Cloud allows the user to gain remote access to control and manage devices and to receive email, text, and push alert notifications and reminders.

SPECIFICATIONS:

- Simple set-up
- Automatically pairs with connected device
- Compact design (3.5" x 2.5" x 1")
- Lower cost than previous model
- Free standard access. No additional charge or subscription needed for standard Z Control® account access
- Includes 3' Cat5 cable and hook and loop fasteners for mounting
- Nema 1 enclosure (for indoor use only)



Download the app. Search your app store for "Z Control".



Electrical Alternator Control Panels

Pivot® 1Ph Control Panel

Text Key:

Features common with our previous model

Additional STANDARD features on Pivot®

Pivot®: 115/200/230
 Simplex and Duplex models
 Limited 5 year warranty



Touch-safe user interface
LED indicators:

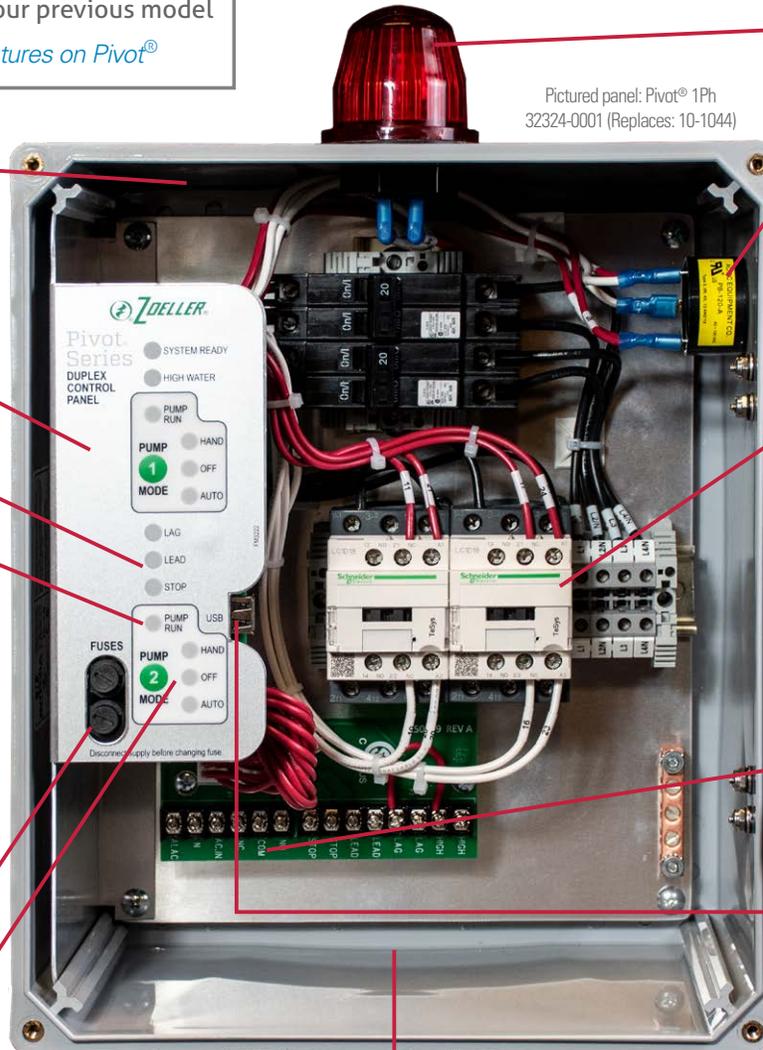
- System Ready
- Float switch LED indicators
- float switch faults
- Pump Run LED indicator(s)

Latching globe and horn feature

- 3 or 4 float switch operation
- choice of multiple float logic and orders
- built in switch redundancy
- configurable float switch operation
- choose between Smart and Relay Switch Logic
- Separate fuses for alarm and control circuits

Smart HOA:

- prevents accidental On or Off
- Off mode reminder



Pictured panel: Pivot® 1Ph
 32324-0001 (Replaces: 10-1044)

Top mount globe
-varying globe patterns for distinct alarm conditions

Side mount horn

Side mount Test/Silence switch
Test switch tests all LEDs, globe, and horn

NEMA 4X enclosure, locking hasp, dead front.
12x10x6 Pivot™

Motor contactor(s), breakers (1Ph)
-staggered pump start

- Alarms for:
- high water alarm
 - continuous pump run
 - incorrect control voltage
 - disabled alarm circuit
 - failed contactor
 - overload
 - float fault
 - HOA Off timeout

Auxiliary output, form C (aka dry contacts)

- USB features:*
- pump starts counter
 - elapsed time meter
 - custom configurations
 - update firmware

Factory Reset for clearing and troubleshooting

Set of 5 PCB jumpers for selection of preferences

Ample room for field wiring



Pivot® Pro 1Ph and 3Ph Control Panels

Pivot® Pro includes all the features of the Pivot® (previous page)
PLUS these additional upgraded features

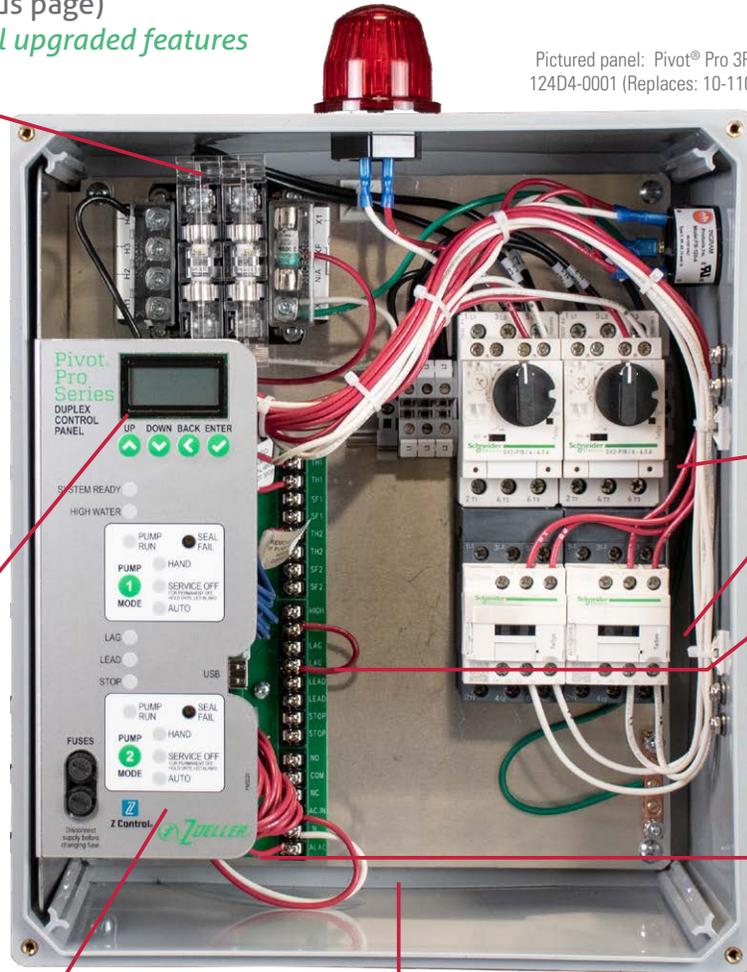
Pivot® Pro: 1Ph and 3Ph circuit breakers or 3Ph 200/230/460V with multi-tap transformer
 Simplex and duplex models
 Limited 5 year warranty



- LCD display:**
- full menu system for configuration
 - keypad lock for security
 - service information: name and phone number
 - review pump starts, elapsed run times, and other system data
 - selectable ratio for pump alternation (duplex)
 - lead/lag select (duplex)
 - configurable continuous run alarm timer
 - horn configurable: latching/active

- Smart HOA:**
- prevents accidental pump damage
 - reminder to return to Auto operation
 - adjustable behaviors

Pictured panel: Pivot® Pro 3Ph
 124D4-0001 (Replaces: 10-1108)



NEMA 4X enclosure, locking hasp, dead front.
 -14x12x6 Pivot® Pro

Motor contactors with built-in pump run contacts. Overloads (3Ph)

Terminal strip for circuit and alarm power, float switches, auxiliary contacts, seal fail leads, and thermal leads.

Data jack for Z Control® Gateway (sold separately)
 Z Control® includes:
 -remote testing and monitoring
 -remote configuration
 -alert notifications: text, email, app push.

Ample room for field wiring

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.

SPECIFICATIONS:

- MUST be installed in a general-purpose area
- Meets Class 1 Division 1 Intrinsically Safe requirements
- 15" long prewired conduit cord with stripped wire ends for fast and easy connection to a control panel
- Steps down 120 V power from the panel to the float switches
- Connect up to three or four floats for simplex or duplex operation
- Stock less panels with this one accessory

Refer to FM0526 for low current float switch selection or any milliamp floats used for hazardous environments

See FM3459 for the panel selection guide



APak[®] Alarm Systems

The APak[®] alarm is compact and easy to install. It is CSA approved in a NEMA 1 enclosure. Battery life is over 1 year from 2 AA batteries. Alarm may be used as AC only, DC only, or AC/DC applications. The APak[®] alarm system sounds a horn when a potentially threatening liquid level condition occurs. The horn can be silenced, but the alarm light remains on until the condition is remedied.

A green "POWER ON" light indicates 120 V primary power to the alarm. A low battery chirp feature indicates when the battery should be replaced. A red "ALARM" light indicates a high-level condition.

NOTE: It is always recommended to power the alarm from a separate circuit than the pump to avoid losing power to both during a tripped breaker scenario.

10-4012 Apak[®] Alarm

SPECIFICATIONS:

- NEMA 1 enclosure (INDOOR USE ONLY)
- Automatic alarm reset
- Horn is rated 87 decibels at 10' (3 m)
- 2 AA battery backup (battery not included)
- 15' (5 m) alarm (12 V) tethered switch
- 6' (2 m) power cord
- Auxiliary dry contacts (use 10-4014)

10-4011 Apak[®] Alarm

SPECIFICATIONS:

Same standard features of our 10-4012 with:

- 15' (5 m) alarm reed switch
- Auxiliary dry contacts (use 10-4013)



10-4012

Z Control[®] Enabled Models 10-4013 and 10-4014 Apak[®] Indoor Alarms

SPECIFICATIONS:

Z Control Enabled

- Wi-Fi[®] equipped
- Receive free text, email, and push alerts on:
 - Power outage
 - Low battery
 - Input 1 or 2 triggers
 - Loss of contact with Z Control[®]
- Remotely silence, reset alarm.
- Free Z Control App and Web interfaces
- Free Z Control account
- No monthly cost
- Simple setup
- Z Control connectivity LED
- 10-4013 comes with reed sensor
- 10-4014 comes with mechanical float switch
- 10-4683 comes with no switch
- All the standard features plus:
 - 2nd input for additional monitoring ability
 - Dry contacts for connection to home security system, etc.



10-4013

91104-0001 Apak® Outdoor Alarm

SPECIFICATIONS:

- APak Outdoor Alarm System Features
- NEMA 4X Outdoor use per UL 864 for US and Canada
- Alarm system (horn & light) operates to warn of a high-water condition
- Horn is rated 82 decibels at 10' (3 m)
- Auxiliary dry contacts for high level alarm, 5 Amps
- Operates on separate circuit from pump, 115 VAC
- Alarm test and horn silence switch with automatic reset
- Terminal connections for a pump and float switch (Model 91104-0001)
- Can be used with liquids to 140 °F (60 °C)
- 15' (5 m) float switch (Model 91104-0001)
- 20' (6 m) float switch, 6' (2 m) power cord, watertight cord connectors (Model 10-0682)
- 3 year limited warranty (Model 10-2614, 10-0682, 91104-0001)

NOTE: All variable level float switches in this section are mechanically activated and do not contain mercury.

91104-0002 Apak® Outdoor Alarm

SPECIFICATIONS:

Same standard features of our 91104-0001 with:

- 20' (6 m) alarm (12 V) tethered switch
- 6' (2 m), 115 V power cord with water-tight cord connectors



Flood Alert®

10-0763 High Water Alarm

Flexible sensor wire allows this alert to be used in many applications. Alerts you of overflowing:

- Sump pump • Toilets • Broken pipes
- Dishwashers or washing machines • Laundry sinks
- Air conditioning pans • Bath tubs or hot tubs

SPECIFICATIONS:

- Operates on (3) AAA batteries
- Low battery alarm
- Warns you when sensor contacts water
- Loud intermittent horn rated at 103 +/- 3 db at 1' (30 cm)
- On/Off silence switch
- Stainless steel sensor contacts
- Easy to install, portable and safe!
- Compact design (3-1/4" x 2-1/4" [8.3 x 5.7 cm])
- No adjustments needed
- Solid state electronic components
- 5' (1.5 m) of lead wire
- 12-month limited warranty
- AC power adapter capability. Requires Class 2 transformer, Input: 120 VAC/60 Hz, output: 4.5 VDC/150 mA, tip positive, type B plug. (Not included, but available at most electronics stores)



Variable Level Control Switches

APPLICATIONS:

- Simplex or duplex pump control and high level alarm on electrical alternating control panel systems
- For dewatering, effluent and sewage applications
- Switch for APak®

SPECIFICATIONS:

- Float is constructed of durable PVC/polypropylene
- Standard mechanical variable level control switches are rated for 115/230 V, 5 Amps
- Low-current, mechanical variable level control switches are rated for 125 VAC/30 VDC, 0.1 Amps
- 18/2 Type SJOW CPE cord standard
- Cords are available in 15-25-35-50' (5-8-11-15 m) lengths
- Temperature rating of 140 °F (60 °C)
- Approximately 1.5" (38 mm) liquid level differential in switching action

ADJUSTABLE WEIGHT: provides an accurate pivot point for suspended float switches.

- Gripping teeth on clip and weight channel securely lock float cable into place
- Cable weight can be adjusted without the use of tools

HOUSING: 1lb 12oz. (0.8 kg), 2.8" x 3.3" (7.1 x 8.4 cm), impact-resistant and non-corrodible, PVC housing for liquids up to 140 °F (60 °C)

CLIP: injection-molded acetal plastic

WIRE/CABLE ACCOMODATED: SJOW, SJTW, 18/2, 18/3, 16/3, 14/2, 14/3

SHIP WEIGHT: 2 lbs. (0.9 kg)



10-1880



10-1886

FLOAT SWITCHES			
Mechanical		Cord Length (ft/m)	Mounting Method
Standard P/N*	Low Current P/N**		
10-0743	10-2060	15/5	Clamp
10-0744	10-2061	20/6	Clamp
10-1877	10-2062	25/8	Clamp
10-1878	10-2063	35/11	Clamp
10-1879	10-2064	50/15	Clamp
10-1880	10-2065	15/5	Adjustable Weight
10-1881	10-2066	25/8	Adjustable Weight
10-1882	10-2067	35/11	Adjustable Weight
10-1883	10-2068	50/15	Adjustable Weight

FLOAT SWITCH TREES			
Mechanical		Cord Length (ft/m)	Mounting Method
Standard P/N*	Intrinsically Safe P/N**		
10-1456	10-1456	---	Tree Only
10-1886	10-2069	15/5	(3) 15' (5 m) Floats & Tree
10-1887	10-2070	15/5	(4) 15' (5 m) Floats & Tree

* Not for use with intrinsically-safe control systems.

** For use with intrinsically-safe control systems only.

Products may not be exactly as pictured.



Variable Level Float Switches

SPECIFICATIONS:

- Converts nonautomatic pump to automatic pump
- Simple installation
- Adjustable/variable level
- Standard 15' (5 m) and 20' (6 m) SJOW CPE cord with molded plug. 10-0055 and 10-0065 - 10' (3 m) cord standard
- Float is constructed of durable PVC/polypropylene
- Standard - normally open (NO) ("pumps down")
- Optional - normally closed (NC) ("pumps up"). Consult factory
- Maximum operating temperature for 10-0748: 120 °F (49 °C). All other switches: 140 °F (60 °C)
- Float is omnidirectional
- Includes mounting clamp
- Designed for EFFLUENT, SEWAGE and DEWATERING applications
- Variable level float switch, for use in 18" (45.7 cm) minimum diameter basins
- 10-0748 - 25' (8 m) cord standard, no molded plug. Can be used as a control switch to operate an external magnetic or combination starter on three phase pumps
- Vertical piggyback float switch. Ideal for narrow diameter basins. 6.5" (16.5 cm) maximum cycle range
- Use recommendation chart for switch selection

Single Piggyback Variable Level Float Switch

13 AMP MAXIMUM	15 AMP MAXIMUM	20 AMP MAXIMUM
Normally Open (NO)	Normally Open (NO)	Normally Open (NO)
10-0055 - 115 V - 10' (3 m)	10-0032 - 115 V - 15' (5 m)	10-0748 - 115 V/230 V - 25' (8 m)
10-0034 - 115 V - 15' (5 m)	10-0033 - 230 V - 15' (5 m)	
10-0035 - 230 V - 15' (5 m)	10-0705 - 115 V - 20' (6 m)	
10-0063 - 115 V - 20' (6 m)	10-0559 - 230 V - 20' (6 m)	
10-0706 - 230 V - 20' (6 m)		
Normally Closed (NC)	Normally Closed (NC)	
10-0065 - 115 V - 10' (3 m)	10-0064 - 115 V - 15' (5 m)	
10-0037 - 115 V - 15' (5 m)		
10-0062 - 230 V - 15' (5 m)		



10-0032

Note: All variable level float switches in this section are mechanically activated and do not contain mercury.

Single Piggyback Vertical Float Switch

13 AMP MAXIMUM NORMALLY OPEN (NO) VERTICAL
10-2041 - 115 V - 10' (3 m)
10-2042 - 115 V - 15' (5 m)
10-2043 - 115 V - 20' (6 m)



Double Piggyback Variable Level Float Switch

MECHANICAL
10-1964 - 115 V - 15 Amp - 15' (5 m)
10-1965 - 230 V - 15 Amp - 15' (5 m)



10-1964



Nema-4X Junction-boxes

Economy Junction Box (Field Assembled)

PVC plastic box with removable cover for use in sewage, effluent, dewatering, or corrosive environments. Box is 4" x 4"x 2" (10 x 10 x 5 cm) and is field-drilled for maximum flexibility in each installation.



10-0331 shown.

Sewage/Waste Junction Boxes

NEMA-4X Junction Boxes are electrical enclosures that are watertight, dust-tight, and corrosion resistant. Boxes are completely assembled with cord seals and terminal strip for easy field wiring.



10-1399 shown.



10-1403 shown.

Deluxe Junction Box(Factory Assembled)

High-impact, corrosion-resistant, weatherproof thermoplastic enclosure with flexible PVC gasket and brass screws. Preassembled at the factory for convenience and ease of installation.

Qwik- Box Pump Control and Alarm

The Qwik-Box is a junction box designed for easy hookup of pumps and alarm systems. It is used in septic effluent, sewage, or dewatering applications, and requires a connection outside the building or residence. The Qwik-Box eliminates the need for junction wiring boxes inside sewage and septic tanks, and consists of UL listed components.

SPECIFICATIONS:

- No need to cut off plugs
- Sealed watertight enclosure
- Available in 115 Volt or 230 Volt design
- Corrosion-resistant PVC construction
- Easy hookup of indoor alarm with terminal strip exposed for low voltage wiring
- Rated for NEMA 4X
- Water-tight rubber cord seal for pump and switch cables
- Optional indoor tank alert alarm with silence switch and LED indicator
- Installation and wiring instructions included
- Meets NEC requirements for a disconnect

See FM1420 for further information.

Starter Kits

A starter kit is required for all single phase model 611, 621, 631, 641, and 651 pumps. A starter kit consists of the single phase capacitors and relay required to run the pump. These components are shipped loose and are installed into the pump's control panel.



Disconnect & Rail Systems

Z-Rail® Threaded Rail Systems 1-1/4" - 3" NPT Discharge Pumps

SPECIFICATIONS:

- Sewage, storm water, effluent and grinder pump systems
- For use in concrete, steel, or fiberglass tanks
- Allows for removal of pumps from ground level
- No confined space entry to service pump
- No pull rods or hold down rods
- Disconnect fitting with positive machine fit and o-ring provides a reliable seal
- Seals up to 370' TDH (160 psi) and supports a weight up to 300 lbs
- Guide rails direct the pump to and from the disconnect fitting. Systems are supplied complete with disconnect fitting, guide plate, rail guide, and upper rail support bracket
- All systems use 3/4" schedule 40 pipe rails (not included)



2" Z-Rail® unit shown.

3" & 4" Flanged Rail Systems Horizontal Discharge

SPECIFICATIONS:

- For 600 and X600 Series solids-handling pumps
- For basins of any depth
- Cast iron construction with stainless steel hardware
- Easy engagement and disengagement of pump from ground level
- Suitable for most horizontal discharge pumps having a 3" or 4" ANSI flange
- Seals up to 100' TDH (43.9 psi) and supports a weight up to 500 lbs
- Includes base elbow, pump adaptor plate, sealing gasket, rail guide and upper rail support
- All systems use 2" schedule 40 rail pipes (not included)



4" Non-sparking unit shown.

EZ Pull Quick Disconnect

The EZ-Pull quick disconnect is a convenient accessory to use when installing or removing a pump from a tank.



FEATURES

- Two-piece tapered male and female connection that locks itself into place when sliding the two pieces together
- Injection molded, glass filled thermoplastic with an o-ring which provides a watertight seal even under high head conditions
- Available in 1-1/4", 1-1/2" and 2" FPT

Disconnect Only 1-1/4" - 2" Discharge



SPECIFICATIONS:

- Brass or thermoplastic
- Economical, reduces time and cost of removing pump
- Safety: keeps personnel out of pits & out of contact with contaminants
- Used for shallow systems where guide rails are not necessary (pull rod not included)

Check, Ball, & Plug Valves

Full-Flow Unichecks

30-0152 / 30-0160
30-0163 / 30-0164
1-1/4" - 3" Cast Iron



SPECIFICATIONS:

- Vertical or horizontal installation
- Full-flow design, no restrictions
- Standard, 1-1/4", 1-1/2", 2", 3" female NPT pipe
- Neoprene polyester, reinforced flapper, smooth edge design, with cast iron and non-corrosive metal backing plates and stainless steel fastener
- Corrosion-resistant, powder coated epoxy finish
- Rated at 50 PSI (115' [35 m] of head) at 130 °F (54 °C)
- Stainless steel bolts



30-0021 / 30-0151 2" Plastic or Cast Iron Slip Union



SPECIFICATIONS:

- Full 2" flow design - meets BOCA (P.604.2) 2" full flow pump code
- Simple to install (no threading of pipe required). Save time and material costs
- Neoprene gasket and flapper, weighted with heavy stainless steel metal backing plates and rivet
- Vertical or horizontal installation
- Slips over ABS, PVC, steel or copper pipe
- Flexible neoprene slip x slip union includes stainless steel clamps for low pressure systems. Avoid more than 10' (3 m) static head above the check valve. 4.3 PSI at 130 °F (54 °C)
- Plastic check has PVC body and can be installed with solvent-welded couplings for pressure systems to 25 PSI, 57' (17.4 m) of head (30-0023)
- Model 30-0151 has corrosion-resistant, powder coated epoxy finish
- Stainless steel sleeves available to meet Illinois Plumbing Code. (Cast Iron 30-0201 / PVC 30-0202)
- Meets requirements of Wisconsin Uniform Plumbing Code

Full-Flow Unichecks

30-0181 / 30-0200
**1-1/4" - 1-1/2" Slip x Slip
Union**



SPECIFICATIONS:

- Flapper bends over a radius, no sharp 90° edges — lengthens life of flapper hinge
- PVC plastic check body, ultrasonically welded and can be solvent-welded for rigid, pressure-rated piping systems to 25 PSI, (57' [17.4 m] of head) at 130 °F (54 °C) (30-0182)
- Vertical or horizontal installation
- Available in individual packages for pegboard display (30-0191)
- All stainless steel screws, nuts and clamps on model 30-0200 only
- Slip x slip for 4.3 PSI, 10' (3 m) of head at 130 °F (54 °C). Avoid more than 10' (3 m) static head above the check valve.

30-0214 / 30-0215 / 30-0216 1-1/4" - 2" Cast Iron NPT High-Temperature



SPECIFICATIONS:

- Use with 2000 and 3000 series high-temperature pumps
- Vertical or horizontal installation
- Full-flow design, no restrictions
- Standard 1-1/4", 1-1/2", 2" female NPT pipe
- EPDM strand-reinforced flapper, smooth-edge design with cast iron and non-corrosive metal backing plates & stainless steel fastener
- Corrosion-resistant, powder coated epoxy finish
- Rated at 50 PSI (115' [35 m] of head) at 200 °F (93 °C)
- Stainless steel bolts



Tri-Check® 30-0100 / 30-0101 1-1/2" - 2" PVC Check Valve/Ball Valve Union Combination



SPECIFICATIONS:

- Full-flow check valve design
- Threaded union allows pump to be removed without disrupting discharge piping
- Saves time and money - easy to install
- Neoprene gasket and flapper, weighted with stainless steel backing plates and rivet
- Can be installed on vertical or horizontal pipe
- Meets plumbing codes requiring a ball valve installed in conjunction with a check valve

The Combo 30-0102 / 30-0103 1-1/2" - 2" PVC Check Valve Union Combination



SPECIFICATIONS:

- All stainless steel screws
- Replaceable flapper in the check valve
- Extra wide hinge to reduce stress
- Rated for 25 psi, 57' (17.4 m) of head

Quiet Check - PVC Solvent Weld with Union Check Valve



P/N 30-0040 White PVC P/N 30-0041 Clear PVC P/N 30-0046 White PVC P/N 30-242 Clear PVC

SPECIFICATIONS:

- 1/2 lb. (0.23 kg) spring eliminates water hammer
- Reduces motor and pump noise
- Designed for both horizontal and vertical usage
- Full-flow, non-clog design installation
- Durable PVC check body and compression end fittings
- Solvent-weld ends allow for easy installation
- 30-0044 and 30-0045 have no unions
- No threading of pipe required - saves time and money
- Pressure rated at 50 PSI (115' [35 m])
- 30-0241 & 30-0242 Slip Union: 40 PSI (92' [28 m])
- 30-0243 & 30-0244 Slip Union: 30 PSI (69' [21 m])
- Consult factory for use over 130 °F (54 °C)
- Suitable for installation below basin cover

P/N	SERVICE PART
152294	1-1/2" union assembly
152293	2.0" union assembly

QUIET CHECKS PVC SOLVENT WELD					
Item Number	Pipe size	Valve Body	Weight (lbs/kg)	Length (in/mm)	Carton Qty
30-0239	1-1/4"	White	0.75 lbs/0.3 kg	9.50"/241 mm	12
30-0040	1-1/2"	White	2 lbs/0.9 kg	9.50"/241 mm	12
30-0041	1-1/2"	Clear	2 lbs/0.9 kg	9.50"/241 mm	12
30-0042	2"	White	3 lbs/1.4 kg	10.50"/267 mm	12
30-0043	2"	Clear	3 lbs/1.4 kg	10.50"/267 mm	12
30-0044	3"	White*	3 lbs/1.4 kg	9.50"/241 mm	8
30-0045	3"	Clear*	3 lbs/1.4 kg	9.50"/241 mm	8
QUIET CHECKS PVC SLIP UNION					
30-0241	1-1/2"	White	1.2 lbs/0.5 kg	10.50"/267 mm	12
30-0242	1-1/2"	Clear	1.2 lbs/0.5 kg	10.50"/267 mm	12
30-0243	2"	White	1.8 lbs/0.8 kg	11.50"/292 mm	12
30-0244	2"	Clear	1.8 lbs/0.8 kg	11.50"/292 mm	12
QUIET CHECKS WITH QUARTER TURN BALL VALVES					
30-0046	1-1/2"	White	3 lbs/1.4 kg	14.75"/375 mm	12
30-0047	1-1/2"	Clear*	3 lbs/1.4 kg	14.75"/375 mm	12
30-0048	2"	White	4 lbs/1.8 kg	16.12"/409 mm	12
30-0049	2"	Clear*	4 lbs/1.8 kg	16.12"/409 mm	12

*Solvent weld only. No unions included (see chart).

GENERAL CAUTION: Water hammer creates momentary high pressure surges. These surges can cause severe damage to check valves and the piping system. Consideration for water hammer must be included in the piping system design. Reference ASPE Data Book, Chapter 2.33. May require check valves with special non-slam features or other engineered solutions.

Compression 1-1/2" - 3" Compression Unichecks



ITEM NO.	PIPE SIZE	WEIGHT (lbs/kg)	LENGTH (in/mm)	CARTON QTY
30-0015	1-1/2"	1.1 lbs/0.5 kg	7-1/2"/180 mm	12
30-0020	2"	1.7 lbs/0.8 kg	9-3/4"/248 mm	12
30-0030	3"	5 lbs/2.3 kg	14"/356 mm	2

Pressure rated to 125 psi (861 kPa) at 285' (86.9 m) at 75 °F (24 °C)

Inline 30-0238 Inline Check Valve



SPECIFICATIONS:

- Rubber coupling with stainless steel clamps
- Threads into pump discharge
- Pre-drilled weep hole
- 4.3 PSI, 10' (3 m) of head max
- Vertical installation only

3" & 4" Flanged Check Valves



SPECIFICATIONS:

- Heavy-duty ductile iron construction
- Angled seal for non-slam closure
- Non-clog design
- Reinforced disc
- Drip-tight seating
- Rated up to 250 PSIG
- Designed for both horizontal and vertical usage
- Optional backflow actuator and mechanical indicator

PART NO.	VALVE SIZE	"A" (in/mm)	"B" (in/mm)	"C" (in/mm)	"D" (in/mm)	"E" (in/mm)	"F" (in/mm)	"G" (in/mm)	"H" (in/mm)	WEIGHT (lbs/kg)
6030-0197	2-1/2"	8-1/2"/215.9 mm	5-1/2"/139.7 mm	7"/177.8 mm	11/16"/17.5 mm	1-1/2"/63.5 mm	3-3/8"/85.7 mm	5/8"/15.9 mm	4"/101.6 mm	32 lbs/14.5 kg
6030-0202	3"	9-1/2"/241.3 mm	6"/152.4 mm	7-1/2"/196.5 mm	3/4"/19.1 mm	3"/76.2 mm	5-1/8"/130.2 mm	5/8"/15.9 mm	4"/101.6 mm	37 lbs/16.8 kg
6030-0203	4"	11-1/2"/292.1 mm	7-1/2"/190.5 mm	9"/228.6 mm	15/16"/23/9 mm	4"/101.6 mm	5-3/4"/146.1 mm	5/8"/15.9 mm	8"/203.2 mm	63 lbs/28.6 kg

3" & 4" Cast Iron Plug Valves



SPECIFICATIONS:

- Designed to handle solids-bearing flows
- Cast iron housing - rated 175 psi
- 99% pure nickel welded seat
- 1/4 turn Buna plug
- Upper and lower ball bearings
- Provided with hand lever*

*Hand lever not shown in photos

FLANGED MODELS				
SIZE	PART NO.	WIDTH (in/mm)	HEIGHT (in/mm)	WEIGHT (lbs/kg)
3"	6030-0085	8"/203.2 mm	14-1/8"/358.8 mm	53 lbs/24.0 kg
4"	6030-0086	9"/228.6 mm	16-3/4"/425.5 mm	66 lbs/29.9 kg

GENERAL CAUTION: Water hammer creates momentary high pressure surges. These surges can cause severe damage to check valves and the piping system. Consideration for water hammer must be included in the piping system design. Reference ASPE Data Book, Chapter 2.33. May require check valves with special non-slam features or other engineered solutions.

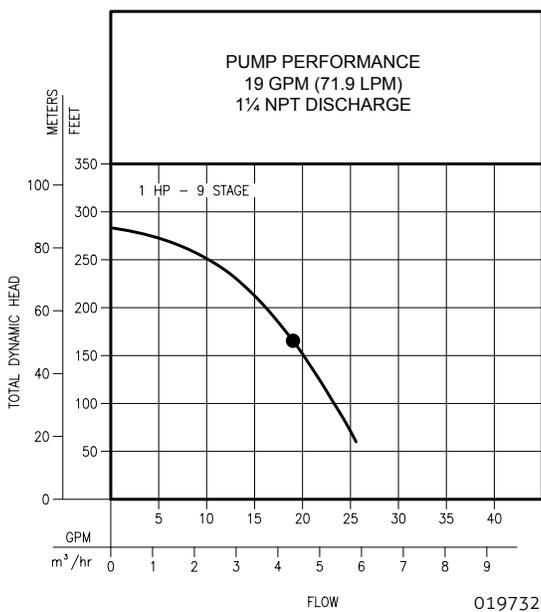
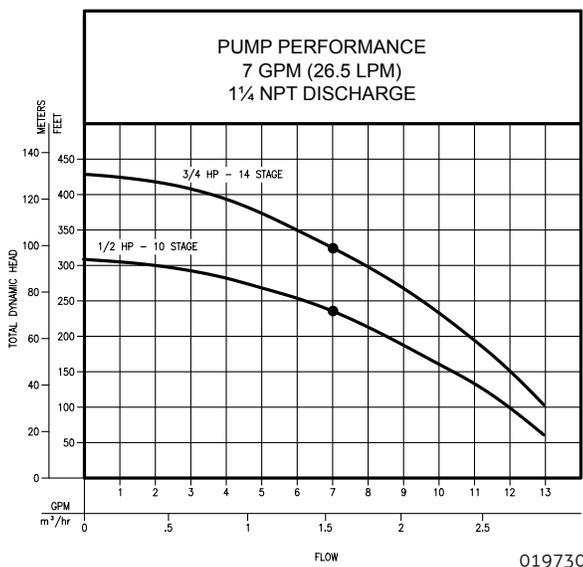
4" Submersible

Stainless steel/cast iron

Submersible pumps are rated by the number of gallons per minute to the well head from various water level depths. Models rated at 7 GPM (26.5 LPM) are for small homes, cottages and light water usage demands, whereas the 11 GPM models are for the average residential size home and family.

1/2 thru 1 HP F&W motors used on Zoeller submersible pumps are designed to meet NEMA standards. 1/2 HP models are available in either 115 or 230 volt. The 3/4 and 1 HP models are available in 230 volt only. All models are available with either a 2 or 3 wire connection plus ground wire. 3 wire models require a control box.

PERFORMANCE DATA

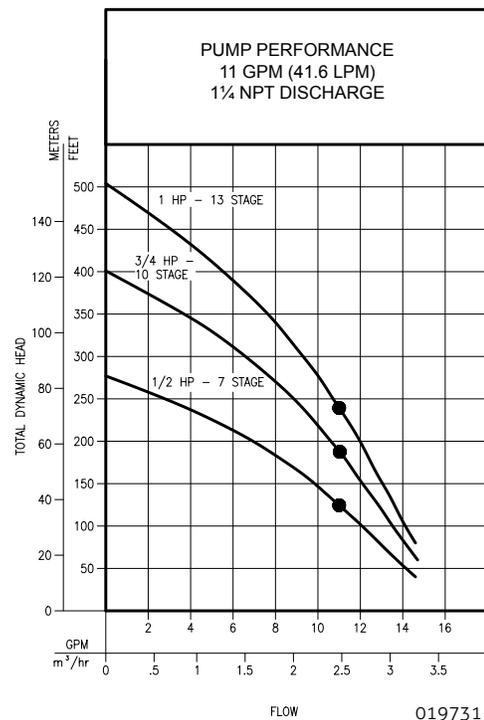


- 1-1/4" cast iron discharge head prevents cross-threading and cracking in the well.
- Corrosion-resistant stainless steel pump shell.
- NEMA-faced mounting ring for long life and protection from motor torque.
- Stainless steel hex drive shaft with one-piece stainless steel motor-to-shaft coupling.
- Includes internal positive sealing check valve.
- Non-fusing and corrosion-resistant impellers and diffusers molded of Noryl® resin.
- Integral suction screen.



Noryl® is a registered Trademark of General Electric Company.

Product may not be exactly as shown.



Lawn Sprinkler / Irrigation Pump

Zoeller Pump Company's self-priming Lawn Sprinkler Pump. The unique design allows for proper lawn sprinkling saturation in areas where water pressure is inadequate or not available. Quality features include a heavy duty motor ranging from 3/4 HP to 2 HP, a large volume pump housing that ensures quick and easy self-priming operation, mechanical seal and an air volume control connection. With a versatile and compact design to fit in tight places, these lawn sprinkler pumps can be field wired for 115V or 230V applications. This pump comes preassembled and ready for installation.



APPLICATIONS:

- Underground sprinkling
- Filling stock tanks
- Above ground sprinkling
- Garden irrigation
- Transferring water

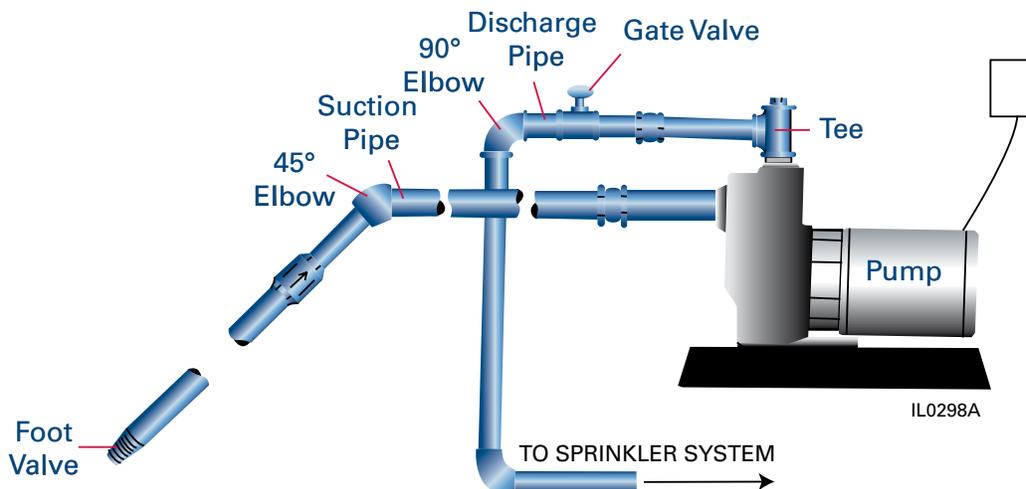
SPECIFICATIONS:

- Provides up to 88 GPM (333 LPM) for moving large volumes of water quickly.
- Quick self-priming characteristics. Must initially be primed with water.
- Heavy duty 56 frame, NEMA J, capacitor start, double ball bearing motor for continuous operation.
- Normal wear parts are easily removed for service and replacement without disturbing the suction or discharge piping.
- Heavy duty rugged construction.

MODEL NUMBER	1 Phase HP	SUCTION LIFT FT.	CAPACITY - GPM								SHUT-OFF PRESSURE PSI	SUCTION PIPE TAP	DISCHARGE PIPE TAP	SHIP WT. (LB)
			10	15	20	25	30	35	40	45				
330-0006	3/4	5	56	48	42	37	29	21			41	2"	1-1/2"	63
		15	47	42	37	29	22	12			37			
		25	43	37	31	22	10				33			
331-0006	1	5	58	53	48	43	38	32	23	11	48	2"	1-1/2"	70
		15	53	48	45	37	31	24	12		43			
		25	48	44	38	33	25	14			39			
332-0006	1-1/2	5	78	77	74	70	62	53	43	30	47	2"	1-1/2"	73
		15	70	68	66	62	53	43	30		41			
		25	47	46	45	44	42	34			36			
333-0006	2	5	86	84	81	77	71	62	52	40	50	2"	1-1/2"	79
		15	76	74	72	69	64	55	43	25	45			
		25	52	51	50	47	45	42	30		40			

All motors are dual voltage. Single Phase (115/230V), Three Phase (208-230/460V)
Maximum case pressure; 100 PSI

Typical installation from pond, lake or canal



End Suction Centrifugal Pumps

Single Stage End Suction

SPECIFICATIONS

- Heavy duty 56 frame, NEMA J, capacitor start, double ball bearing motors for continuous operation.
- Rugged volute type casing. Discharge can be rotated to any one of four positions for horizontal or vertical service line.
- Normal wearing parts are easily removed for service and replacement without disturbing the suction or discharge piping.



300-0006



CENTRIFUGAL PUMPS, PLASTIC IMPELLERS

MODEL NO.	1 PHASE	HP	STAGES	SUCTION LIFT FT.	CAPACITY GPM						MAX. PRESS. PSI	MAX. CASE PRESS. PSI	MAX. LIQUID TEMP.	
					DISCHARGE PRESSURE PSI									
					10	15	20	25	30	35	40			
300-0006	1/3	1	1	5	42	34	21					27	100psig	200° F
				15	36	26								
				25	28									
301-0006	1/2	1	1	5	50	47	37	25				32	100psig	200° F
				15	43	40	29	9						
				25	33	30	15							
302-0006	3/4	1	1	5	71	62	51	36	11			38	100psig	200° F
				15	66	54	40	19						
				25	57	43	25							
303-0006	1	1	1	5	76	69	61	50	36	16		40	100psig	200° F
				15	73	65	54	41	24					
				25	66	57	45	29						
304-0006	1 1/2	1	1	5	94	88	80	70	59	44	18	44	100psig	200° F
				15	92	85	75	63	49	27				
				25	74	72	66	52	34					
305-0006	2	1	1	5	109	103	96	86	75	61	39	44	100psig	200° F
				15	109	103	94	82	67	45				
				25	90	89	85	71	51					

Do not exceed the maximum case pressure and maximum liquid temperature rating of the pump Suction and Discharge Tappings 1-1/2" X 1-1/4"

Two Stage End Suction

SPECIFICATIONS

- 56 frame, NEMA J, capacitor start, double ball bearing motor for continuous operation.
- 3/4, 1, 1-1/2, and 2 HP sizes with single phase motor.
- Rugged cast iron pump casing. Multi stage for high head.
- Normal wearing parts are easily removed for service and replacement without disturbing the suction or discharge piping.
- Thermoplastic impeller.



306-0006

MODEL NO.	1 PHASE	HP	STAGES	SUCTION LIFT FT.	CAPACITY GPM						MAX. PRESS. PSI	MAX. CASE PRESS. PSI	MAX. LIQUID TEMP.			
					DISCHARGE PRESSURE PSI											
					10	20	30	40	50	60	70	80	90			
NE306 306-0006	3/4	1	2	5	41	35	28	20						49	160psig	160° F
				15	38	32	26	13								
				25	32	29	22									
NE307 307-0006	1	1	2	5	45	40	35	28	20				60	160psig	160° F	
				15	42	39	33	26	15							
				25	35	33	30	22								
NE308 308-0006	1-1/2	1	2	5	54	50	44	38	28				61	160psig	160° F	
				15	48	46	42	35	23							
				25	37	35	33	28	17							
NE309 309-0006	2	1	2	5	55	52	47	41	34	23			67	160psig	160° F	
				15	49	47	45	39	30	17						
				25	37	36	33	32	26							

Note: Do not exceed the maximum case pressure and maximum liquid temperature rating of the pump Suction and Discharge Tappings 1-1/2" X 1-1/4".

Jet Pumps

Cast Iron Shallow Well Jet Pumps

NE460 - 1/2 HP 115/230 V

NE461 - 3/4 HP 115/230 V

SPECIFICATIONS

- Sturdy cast iron construction.
- Includes removable ejector for easy serviceability.
- Includes pressure switch.
- Thermal overload protects against overheating.
- Special priming port and large volume case makes priming easier.
- Continuous duty uni-frame 56 frame motor (NEMA J adaptable).
- Capacitor start motor provides maximum starting torque.
- Stainless steel motor shaft sleeve for corrosion resistance.
- Easy access drain plug for winterizing.
- Carbon/silicon mechanical shaft seal.



Factory preset high quality pressure switch with spade connectors for easy wiring.

Motor bracket designed to accept motors manufactured to 56 Frame NEMA specifications. (NEMA - National Electrical Manufacturers Association)

Zinc clad heavy steel motor shell and cooling fan resist corrosion and provide full airflow and heat dissipation.

Quick entry motor compartment for easy access to switch mechanism, electrical components and wire terminals. Dust cover protects switch and electrical components from dust, dirt and insects.

Large diameter molded impeller and diffuser with ultra-smooth water passages for maximum performance. Corrosion and abrasion resistant.

Spade connectors for quick wiring and voltage change.

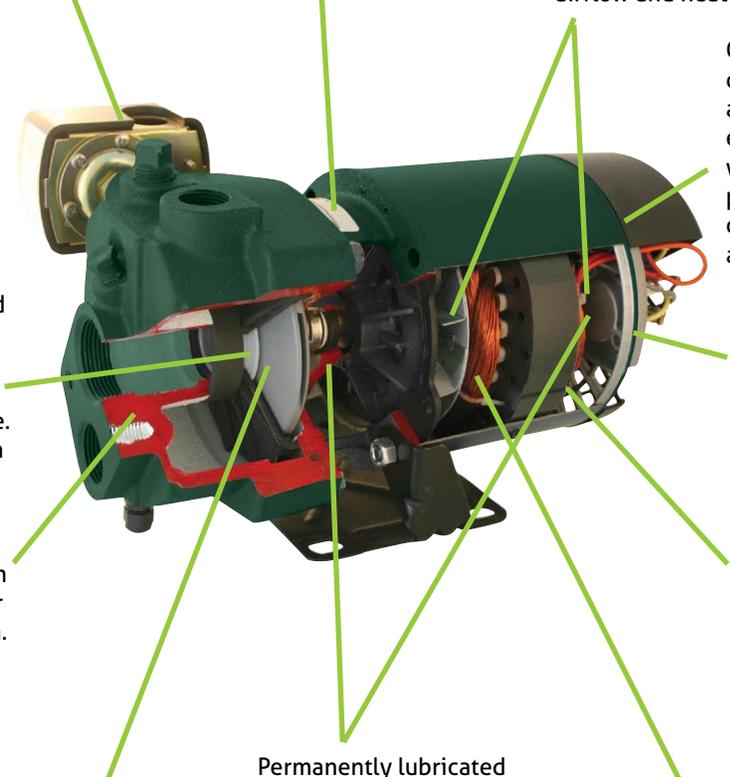
High tensile close grain pump case for superior durability and strength. Large water cavity and separate priming port enables quick pump priming.

Thermal overload automatically senses excessive motor heat for complete winding protection.

Stainless steel motor shaft sleeve eliminates rusting and pitting of the motor shaft at the seal area and prolongs pump and seal life.

Permanently lubricated ball bearings on both motor ends for excellent rotor alignment, smooth quiet operation and long bearing life.

100% nylon over coated magnet wire with an additional varnish dip to guard against moisture penetration and insulation breakdown.



Cast Iron Convertible Jet Pumps With Power Plus 56 Frame Motor

NE462 - 1/2 HP 115/230 V 1-1/4" inlet, 3/4" discharge
NE463 - 1 HP 115/230 V 1-1/4" inlet, 1" discharge

SPECIFICATIONS

- Sturdy cast iron construction.
- Highly serviceable NEMA J or NEMA J adaptable motor.
- Includes pressure switch.
- Thermal overload protects against overheating.
- Ejector purchased separately.



Convertible Jet Pumps with NEMA J adaptable uni-frame motor



MODEL	SUCTION LIFT FT.	PRESSURE SWITCH SETTING PSI	CAPACITIES GPM AT DISCHARGE PRESSURE PSIG				SUCTION & DISCHARGE	PUMP SHIPPING WEIGHT (LB)
			20	30	40	50		
460-0006 1/2 HP NE460	5	30-50	11.6	11.0	9.8	7.0	1-1/4" x 3/4"	40
	15		9.0	8.8	8.0	5.6		
	25		5.6	5.6	5.5	4.5		
461-0006 3/4 HP NE461	5	30-50	17.5	17.0	15.0	10.0	1-1/4" x 3/4"	42
	15		13.0	12.9	12.5	8.0		
	25		8.0	7.8	7.5	5.5		

Shallow And Deep Well Capacities With Convertible Ejectors

PUMP MODEL	EJECTOR MODEL	DISCHARGE PRESSURE PSI	CAPACITIES IN GPM FROM PUMP TO PUMPING WATER LEVEL IN FEET											DW MINIMUM OPERATING PRESSURE PSI				
			SW EJECTOR ATTACHED TO PUMP			DEEP WELL EJECTOR IN 4" ID WELL												
			5	15	25	20	30	40	50	60	70	80	90		100	110		
462-0006 1/2 HP NE462	10-2353	20	11.3	8.7	5.3												--	
		40	9.5	7.8	5.2													
	10-2355	20	10.2	8.0	4.8	11.7	8.3	7.0										20
		40	9.7	7.3	4.5	6.0	4.7	3.8										
10-2356	20						6.7	6.0	5.3	4.3	3.3	2.5					30	
	40						4.3	3.8	3.3	2.5	1.7	0.8						
463-0006 1 HP NE463	10-2357	30	15.7	12.3	8.3	16.7	14.2	12.2	8.3								35-37	
		50	15.0	12.2	8.0	12.5	8.3	5.0	2.5									
	10-2355	30	10.0	7.5	4.7	11.7	11.7	11.5	10.3	9.0	7.7	6.2	4.8				37-39	
		50	9.5	7.3	4.3	9.2	9.2	8.2	7.0	5.7	4.3	3.2	1.7					
	10-2358	30										5.0	4.8	4.3	3.7		39	
		50										3.7	3.3	3.0	2.7			
	10-2354	20	17.2	12.8	7.7													--
		40	14.8	12.2	7.2													

NOTE: See installation instructions for setting flow control for maximum pressures.

Reduce your stock keeping units with Zoeller mix and match tank fitting packages

Add:

- 10-2367 compact Air-E-Tainer®
- 10-2381 fittings package
- Zoeller Shallow Well Jet Pump



And get: Cottage Air-E-Tainer® System

Add:

- 10-2368 or 10-2369 vertical bottom connect
- Air-E-Tainer®
- 10-2373 fittings package
- Zoeller Convertible Jet Pump



And get: Top mounted vertical Air-E-Tainer® Systems bottom connect

WHAT SETS ZOELLER PUMPS APART?

Since 1939, Zoeller Company has been manufacturing water pumps of many types. From pedestal pumps in the beginning to large HP, submersible, non-clog pumps in recent years, we have gained invaluable manufacturing experience from our humble beginning in August Zoeller's basement workshop.

Over the years, one of our most important mottos has been, 'We excel at 1,000 little things'. From start to finish, we take pride in our products. When you have residential or commercial wastewater issues, you can count on Zoeller to deliver the very best solutions. Our commitment to unsurpassed quality offers years of service and durability with a responsive and knowledgeable product support team just a phone call away.

- **MANUFACTURING IS IN OUR BLOOD...**

Rather than using a 'puzzle piece' mentality and simply buying components from other sources and assembling them, we manufacture most of our products from start to finish, continually checking the quality throughout the entire process.

Quality is always the most important element at Zoeller. Above all, quality is what has made us successful and continues to drive the decisions we make. A quality product cannot be manufactured with low-grade components. By bringing in high-quality raw castings as well as machining and powder coating the pieces in house, we are able to control the quality of each part and identify any defect throughout the manufacturing process. Each piece is subjected to numerous quality checkpoints along the way to guarantee that it is the best of the best.

- **FACTORY TESTING IS NOT JUST A BUZZWORD...**

Instead of running 'audits' on a calculated number of pumps, all submersible Zoeller pumps are 100% factory tested underwater prior to shipment. Each pump is subjected to a leak test to ensure that all gaskets, seals and mating surfaces will hold under pressure. After the pressurized leak test, the pump is powered up and run underwater to ensure that it is capable of the published head capacity and flow rate listed in our catalog and specification sheets. This testing allows us to guarantee the pump will operate out of the box every time, and you can rest assured that YOUR Zoeller pump was tested underwater for both electrical and hydraulic performance.

- **FULL BREADTH OF PRODUCT LINE...**

Zoeller is your 'one stop shop' when dealing with dewatering and wastewater systems. We offer everything from a small fractional sump pump to a large, 60 HP, non-clog pump. From battery back-ups, check valves, sewage grinder systems, small prepackaged residential units or large prepackaged municipal systems, Zoeller can offer it all. Next time you are looking for a water or wastewater system, reach for the only catalog you will ever need... Zoeller Company!





ABOUT THE ZOELLER FAMILY OF WATER SOLUTIONS

Founded in 1939, Zoeller Company is one of the oldest independently-owned professional pump manufacturers in North America. Headquartered in Louisville, Kentucky USA, Zoeller has over 800 employees worldwide and close to 600,000 sq. ft. of manufacturing facilities from our seven operations in North America and Asia.

Zoeller Company has established itself as an innovative leader in pumping equipment and water treatment systems by continuous research and development. The quality of our products is demonstrated by UL, CSA, CE, and NSF listings as well as continued growth throughout the United States, Canada, Mexico, and over 40 other countries around the globe. The company has also expanded to include four brands, which have become the foundation of Zoeller.



The original Zoeller product line now resides in Zoeller Pump Company, which offers a broad range of submersible pumps from fractional to 7-1/2 HP for residential and commercial sump, effluent, dewatering and grinding applications.



Flint & Walling, founded in 1866 in Kendallville, Indiana USA, is the only pump company in the U. S. to manufacture its own motor for jet and centrifugal pumps. This product line specializes in deep well pumps that range from 5 GPM to 1,000 GPM, as well as centrifugal, jet, booster, and submersible pumps up to 7-1/2 HP.



Founded in 1952, Wolf Pump is a manufacturer of submersible turbine pumps located in Abernathy, Texas. Wolf currently produces 4" to 8" pumps with capacities ranging from 35 to 1000 GPM. These pumps are known for their efficiency and durability in demanding water applications including irrigation, municipal water supplies, dewatering applications, dairy production, mining, the oil and gas industries, aquaculture, and more.



Zoeller Engineered Products provides products for storm water removal, sewage pumping stations and hazardous environment applications for residential, commercial and municipal markets. Available from 1/2 BHP to 60 BHP, each pump is customized by design, manufacture and installation according to exact application needs.



Trusted. Tested. Tough.®



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