

PUMP SPECIFICATIONS

FP 3153 MT 3~ 435

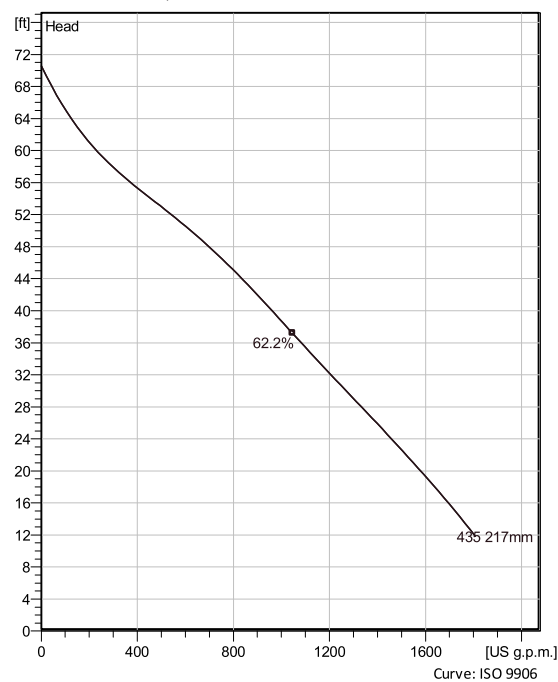
Open screw type cutting impellers and single volute casing for liquids containing long fibres and large solids. F3153 and F3171 are new designs with high efficiency combined with excellent cutting performance.



Technical specification



Curves according to: Water, pure ,39.2 °F,62.42 lb/ft³,1.6891E-5 ft²/s



Configuration

Motor number F3153.850 21-18-4XS-W IE3 17hp	Installation type P - Semi permanent, Wet
Impeller diameter 217 mm	Discharge diameter 6 inch

Pump information

Impeller diameter 217 mm
Discharge diameter 6 inch
Inlet diameter 150 mm
Maximum operating speed 1800 rpm
Number of blades 2
Max. fluid temperature 40 °C

Materials

Impeller Hard-Iron™

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Kristal Upchurch
1/13/2021

Last update

1/13/2021

FP 3153 MT 3~ 435

Technical specification



Motor - General

Motor number F3153.850 21-18-4XS-W IE3 17hp	Phases 3~	Rated speed 1800 rpm	Rated power 17 hp
ATEX approved FM	Number of poles 4	Rated current 18 A	Stator variant 5
Frequency 60 Hz	Rated voltage 460 V	Insulation class H	Type of Duty S1
Version code 850			

Motor - Technical

Power factor - 1/1 Load 0.96	Motor efficiency - 1/1 Load 92.6 %	Total moment of inertia 1.96 lb ft ²	Starts per hour max. 30
Power factor - 3/4 Load 0.96	Motor efficiency - 3/4 Load 92.6 %	Starting current, direct starting 148 A	
Power factor - 1/2 Load 0.93	Motor efficiency - 1/2 Load 91.5 %	Starting current, star-delta 49.3 A	

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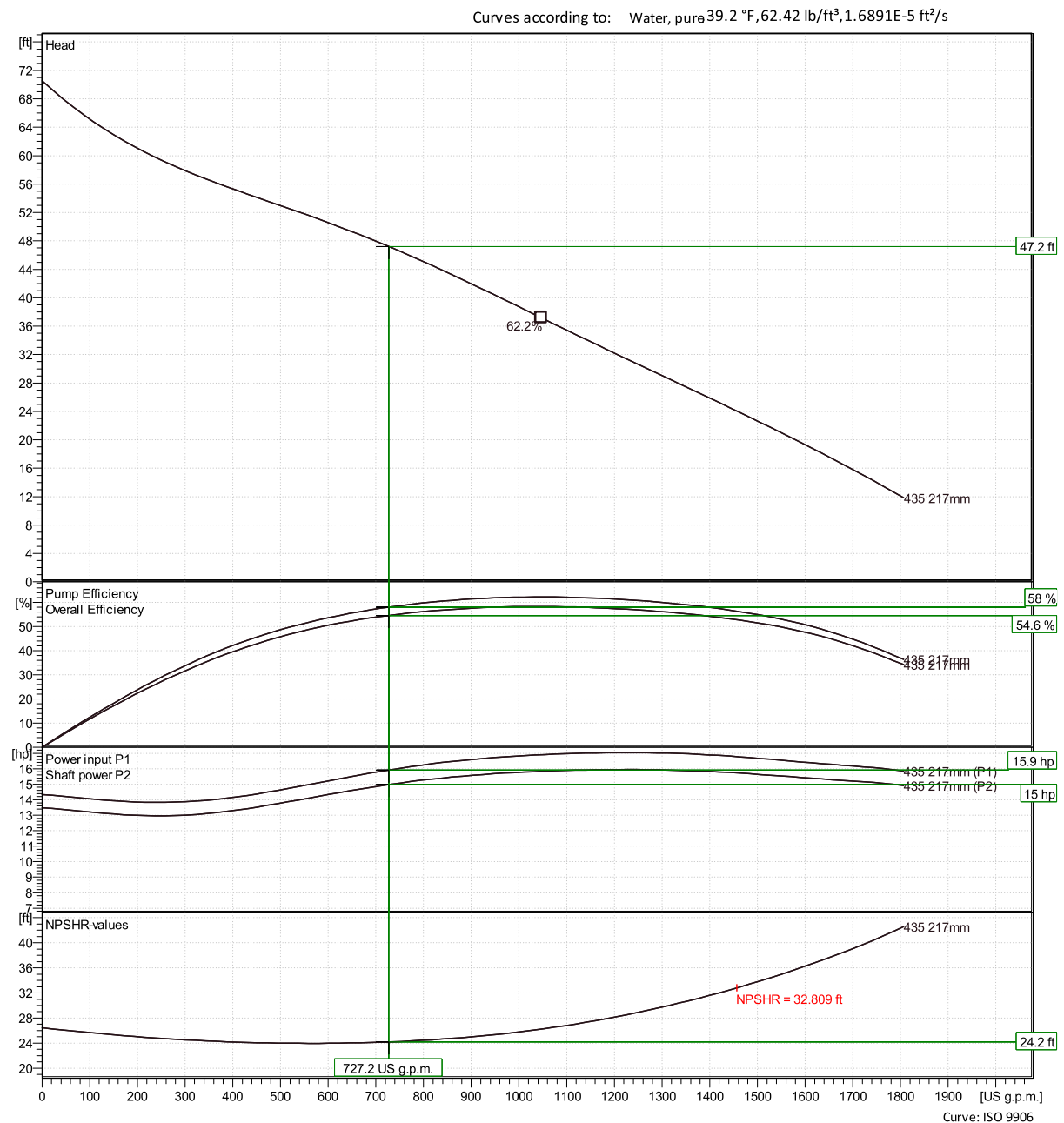
Performance curve



Duty point

Flow
727 US g.p.m.

Head
47.2 ft



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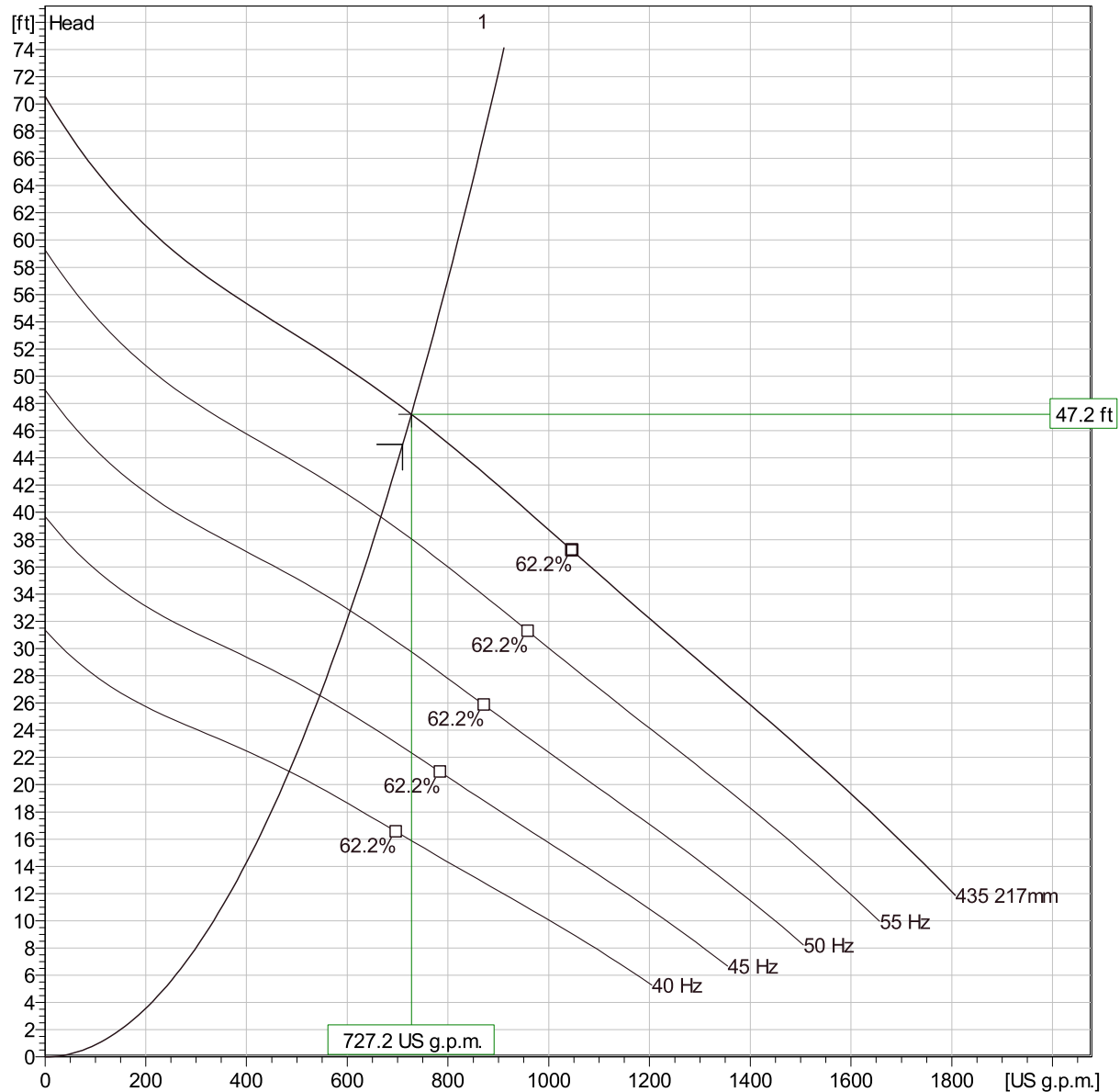
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Duty Analysis



Curves according to: Water, pure, 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



Operating characteristics

Pumps / Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre
1	727 US g.p.m.	47.2 ft	15 hp	727 US g.p.m.	47.2 ft	15 hp	58 %	272 kWh/US Mcf	24.2 ft

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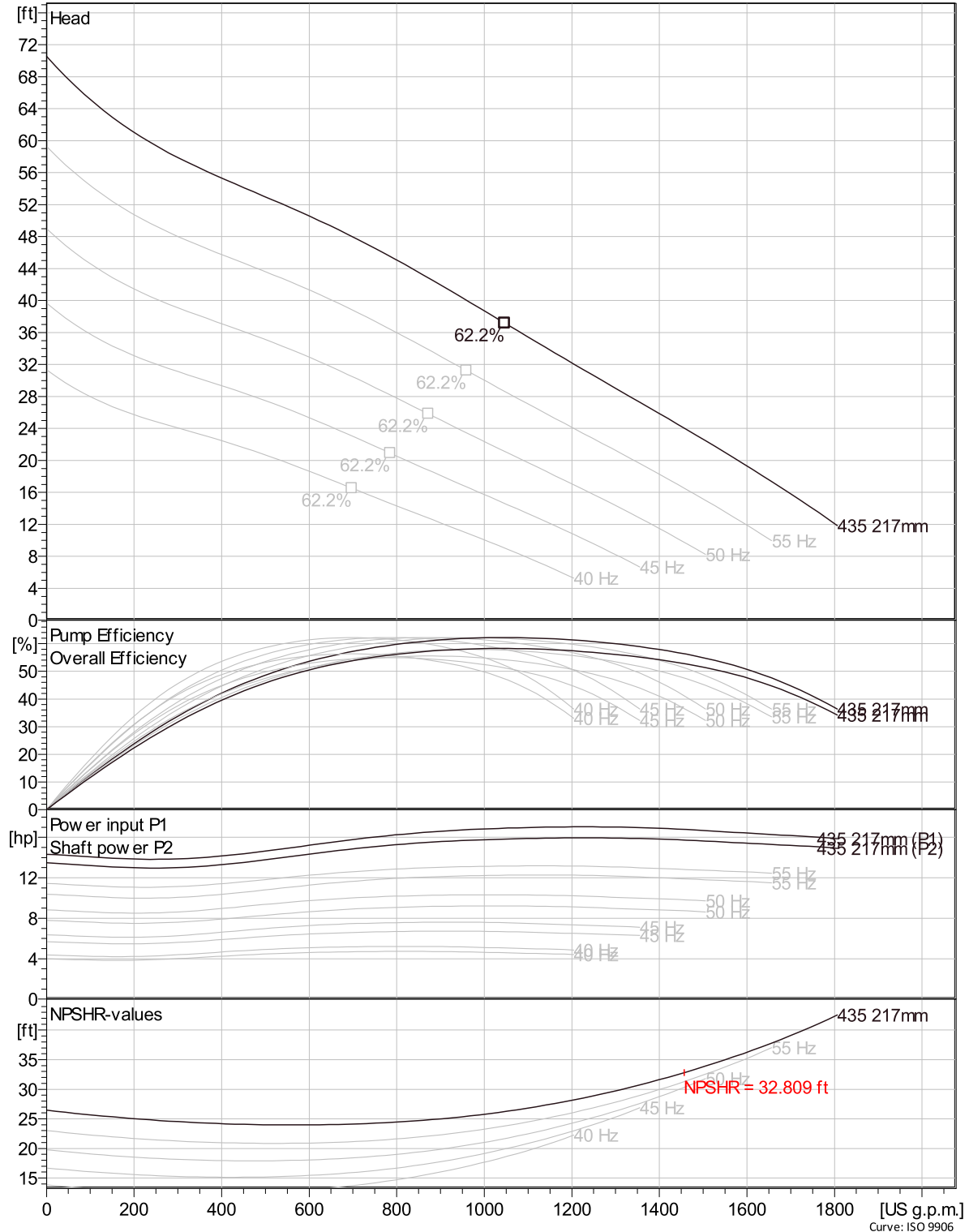
Last update 1/13/2021

FP 3153 MT 3~ 435

VFD Curve



Curves according to: Water, pure, 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s

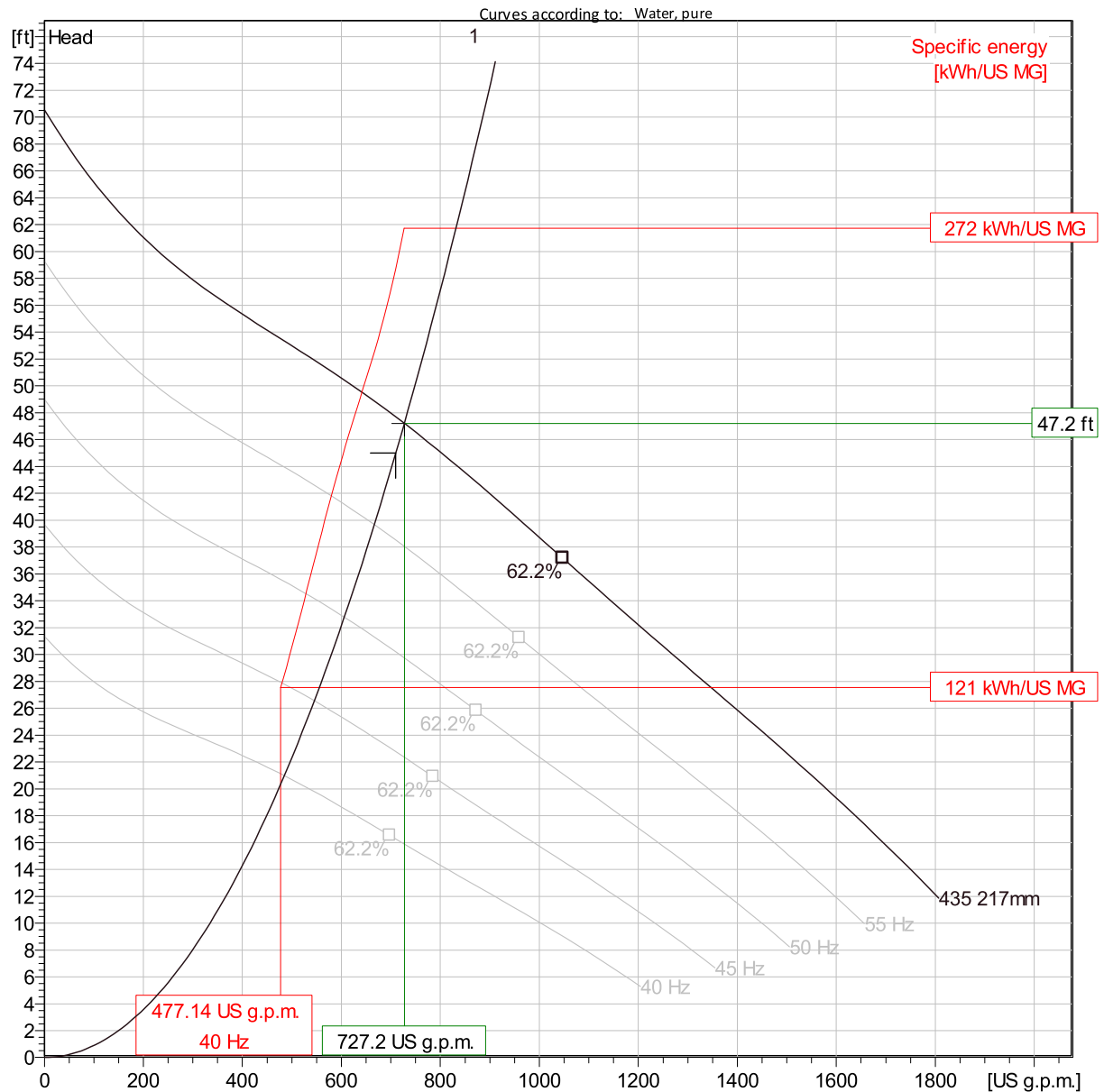


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Curve: ISO 9906

FP 3153 MT 3~ 435

VFD Analysis



Operating characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre
1	60 Hz	727 US g.p.m.	47.2 ft	15 hp	727 US g.p.m.	47.2 ft	15 hp	58 %	272 kWh/US M	24.2 ft
1	55 Hz	656 US g.p.m.	38.4 ft	11 hp	656 US g.p.m.	38.4 ft	11 hp	58 %	226 kWh/US M	20.5 ft
1	50 Hz	596 US g.p.m.	31.8 ft	8.26 hp	596 US g.p.m.	31.8 ft	8.26 hp	58 %	194 kWh/US M	17.6 ft
1	45 Hz	537 US g.p.m.	25.7 ft	6.02 hp	537 US g.p.m.	25.7 ft	6.02 hp	58 %	157 kWh/US M	14.9 ft
1	40 Hz	477 US g.p.m.	20.3 ft	4.23 hp	477 US g.p.m.	20.3 ft	4.23 hp	58 %	121 kWh/US M	12.3 ft

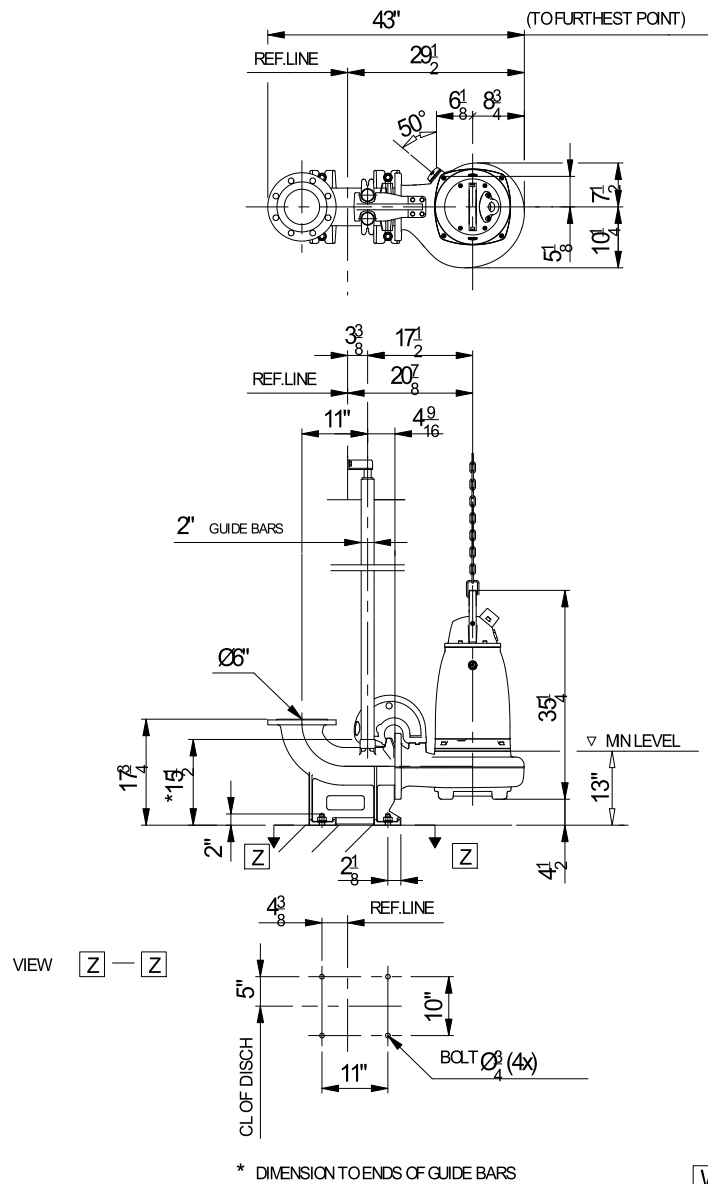
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FP 3153 MT 3~ 435

Dimensional drawing



Weight (lbs)	
Pump	Disch
485	175



Denomination
Dimensional drwg
NP,FP 3153 MT
Ø6"

Drawn by	IW	Checked by	CJS	Date	141117
Scale	6504300	Reg no	5399		
					12

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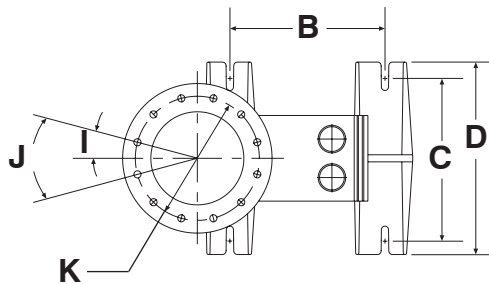
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Standard CP/NP Discharge Connections (Cast Iron)

All dimensions (inches)

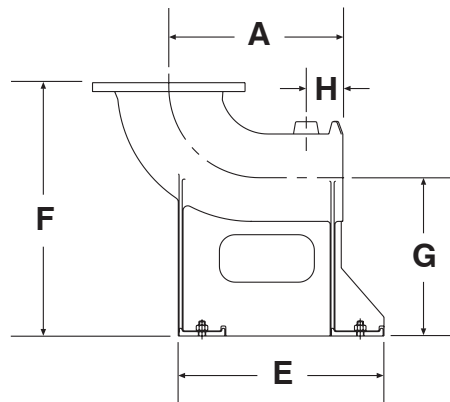
Pump Model	Part Number	Disch. Inlet	Disch. Outlet	A	B	C	D	E	F	G	H	I	J	K
2" - 3045, 3057, CP/DP/FP-3068.	486 55 01	2"	2"-11 1/2 NPT	3 13/16	4	4 1/2	5 1/2	7 1/4	6 3/4	3 15/16	7/8	---	---	---
2 1/2" - DP/FP-3068.	493 17 06	2 1/2"	2 1/2"	11 5/8	7 7/8	4 3/4	7 7/8	11 7/16	9 7/8	6 1/2	4 9/16	45°	90° x 4	5 5/8
3" - 3045, 3057, CP-3068.	555 48 01	2"	3-8 NPT	6 3/4	5 1/2	4 1/8	5 1/2	10 3/4	6 3/4	3 15/16	7/8	---	---	---
3" - DP-3068, 3080, 3085, 3102, 3127, 3153.	444 68 05	3"	3"	14	9 7/8	8	10 5/8	15 3/8	15 3/4	7 7/8	4 9/16	45°	90° x 4	6
4" - 3080, 3085, 3102, 3127, 3153, 3171, 3202.	540 13 05	4"	4"	14 3/8	9 7/8	8	10 5/8	15 3/8	15 3/4	7 7/8	4 9/16	22.5°	45° x 8	7 1/2
6" - 3102, 3127(MT), 3153, 3171.	444 70 06	5 1/2"	6"	15 9/16	11	10	12 3/16	15 3/8	17 3/4	9 7/8	4 9/16	22.5°	45° x 8	9 1/2
6" - 3153, 3171, 3202.	602 33 06	5 1/2"	6"	15 9/16	11	10	12 3/16	15 15/16	17 3/4	9 7/8	4 9/16	22.5°	45° x 8	9 7/16
6" - R3231	388 25 06	6"	6"	20 11/16	19 3/4	15 3/4	19 3/4	23 5/8	15 3/4	7 7/8	6 7/8	22.5°	45° x 8	9 7/16
6" - 3127(LT), 3301, 3315.	604 56 06	6"	6"	15 9/16	11 1/8	10	12 3/16	15 15/16	18	10 1/8	4 9/16	22.5°	45° x 8	9 7/16

Note: Alternative discharge connections may be available, contact Flygt Application Engineering.



Caution:

Contact Flygt applications engineering department when making a pump/discharge connection combination other than those paired in the chart above.

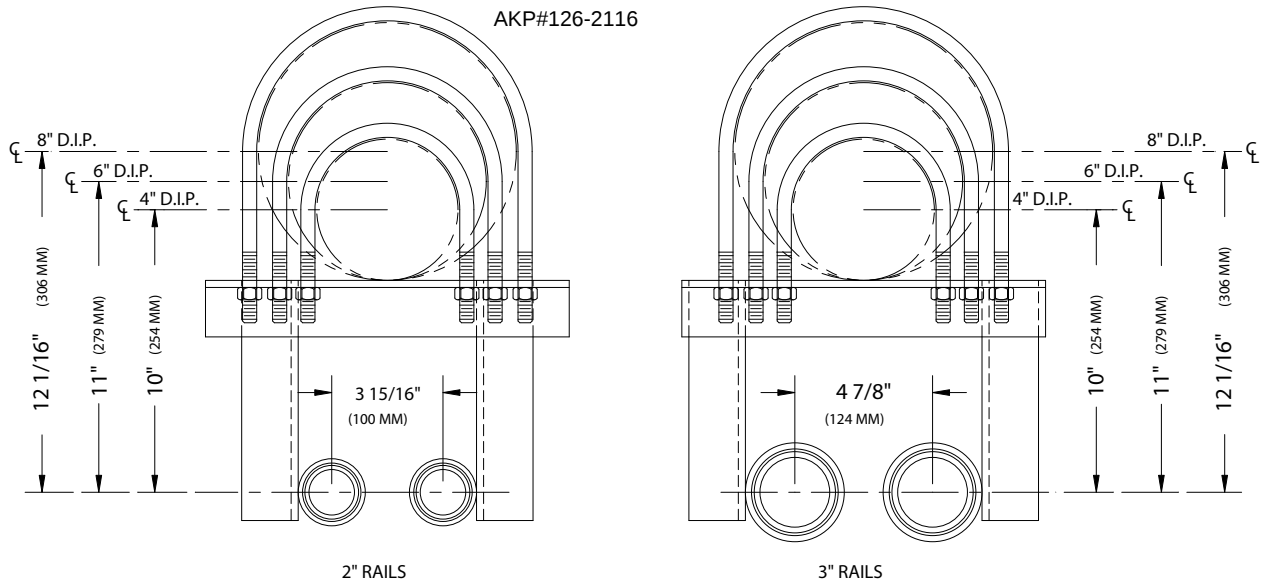


Note:

The discharge connection shown here is typical in appearance for most pumps.

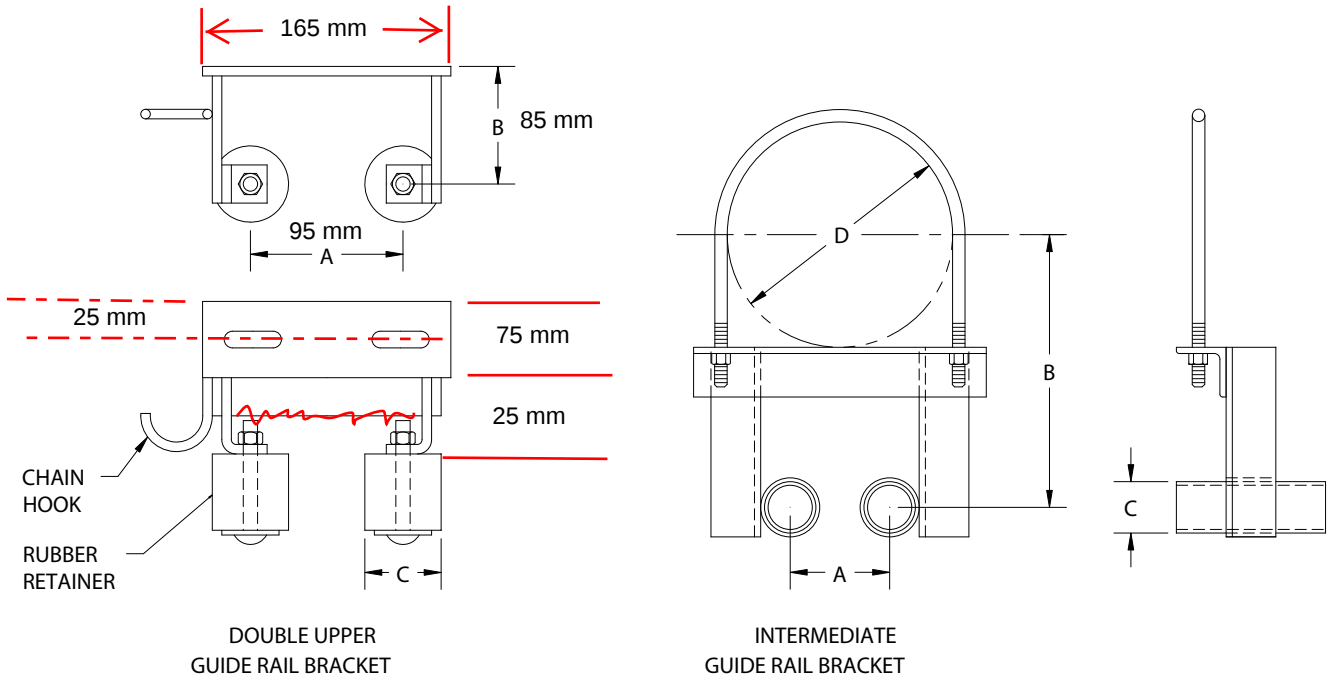
GUIDE RAIL BRACKETS

U.S.F. Fabrication makes guide rail brackets to specific dimensions to match all pump manufacturers.



AKP#126-2115 UNIVERSAL INTERMEDIATE GUIDE RAIL BRACKET

Our Universal brackets are designed to fit 4", 6" or 8" ductile iron pipes.
They are available in stainless steel for 2" or 3" pump guide rails.



AKP#126-2105

GUIDE RAIL BRACKET:

- ☐ SINGLE UPPER
- ☐ DOUBLE UPPER
- ☐ INTERMEDIATE

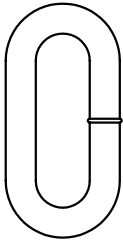
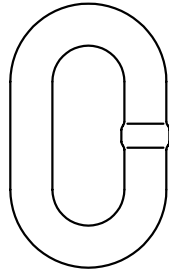
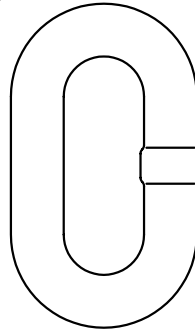
MATERIAL:

- ☐ STAINLESS STEEL 304
- ☐ STAINLESS STEEL 316
- ☐ OTHER _____

DIMENSIONS:

A= _____ C= _____
(GIVE PIPE SIZE)

B= _____ D= _____
(GIVE PIPE SIZE)

$\frac{1}{8}$ " $\frac{3}{16}$ " $\frac{1}{4}$ "

CHAIN

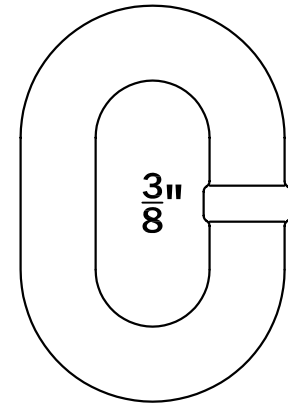
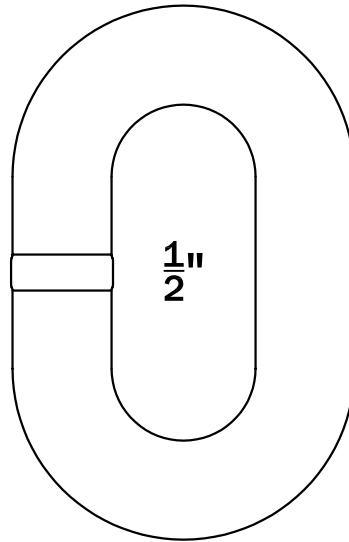
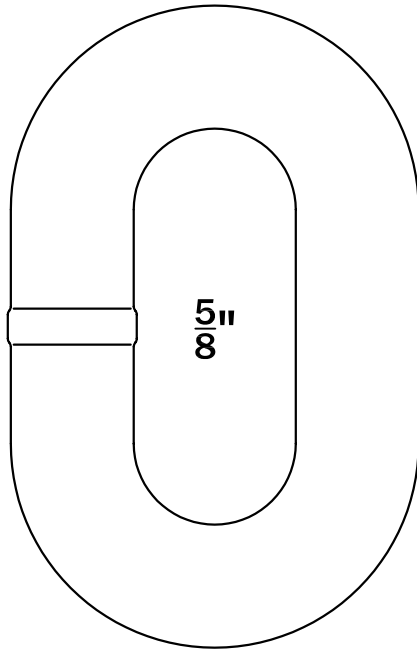
PAGE
1

WIDTH

 $\frac{5}{16}$ "

DIA "A"

LENGTH



SIZE	LENGTH	WIDTH	DIA "A"	SAFE WORK LOAD
1/8"	0.90"	0.29"	0.16"	375 lbs
3/16"	0.97"	0.40"	0.22"	800 lbs
1/4"	1.19"	0.50"	0.28"	1,400 lbs
<u>5/16"</u>	1.24"	0.50"	0.33"	1,800 lbs
3/8"	1.33"	0.57"	0.39"	2,800 lbs
1/2"	1.72"	0.75"	0.52"	4,500 lbs
5/8"	1.90"	0.82"	0.66"	6,800 lbs

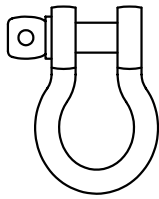
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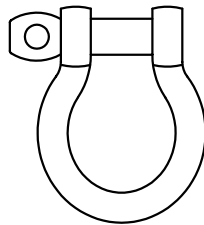
CHANGES	TOLERANCES	DRAWN BY	DATE	SPECIFICATION SHEET DIMENSIONAL DATA	
F	DECIMALS .XXX = ± 0.005 .XX = ± 0.010 FRACTIONAL X/X = $\pm 1/64$ ANGLES X° = $\pm 1/2^\circ$	D. MIDDLETON	03/22/04		
E		MATERIAL SPECIFICATION: 316 SST		SCALE:	PART NO.
D					
C				FULL	STAINLESS STEEL
B					
A					

SHACKLES

PAGE
1



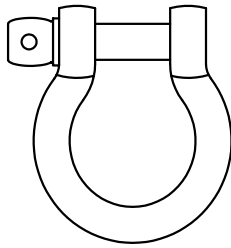
$\frac{1}{4}$ "



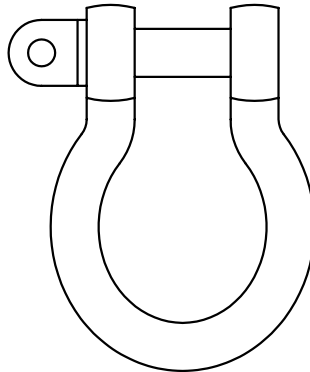
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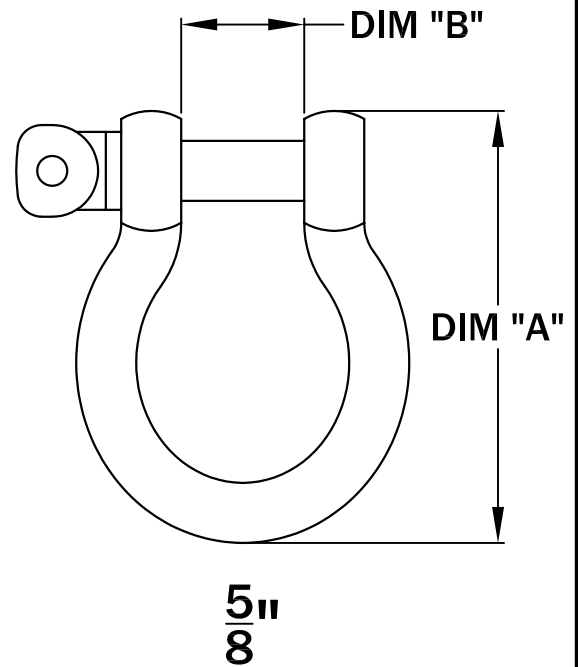
DIA "C"



$\frac{3}{8}$ "



$\frac{1}{2}$ "



SIZE	DIM "A"	DIM "B"	DIA "C"	SAFE WORK LOAD	PIN DIA.
1/4"	1.93"	0.44"	0.63"	667 lbs	0.31"
5/16"	2.18"	0.64"	0.63"	1,000 lbs	0.47"
<u>3/8"</u>	2.50"	0.78"	0.75"	1,500 lbs	0.38"
1/2"	3.56"	1.00"	1.00"	3,000 lbs	0.50"
5/8"	4.50"	1.28"	1.25"	4,000 lbs	0.63"

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CHANGES	TOLERANCES	DRAWN BY	DATE	SPECIFICATION SHEET DIMENSIONAL DATA	
F	DECIMALS .xxx = ±.005 .xx = ±.010 FRACTIONAL x/x = ±.1/64 ANGLES x° = ±1/2°	D. MIDDLETON	03/22/04		
E		MATERIAL SPECIFICATION: 316 SST		SCALE: PART NO.	
D				HALF STAINLESS STEEL	
C					
B					
A					

The MultiTrobe Probe

MultiTrobe probes are unsurpassed for rugged reliability, cost effectiveness and simplicity. Designed for the tough, turbulent conditions found in water, sewage and industrial tanks and sumps, the probes can be found in the simplest and the most complex water and wastewater management systems around the world.

- Low maintenance
- Simple installation
- Excellent in turbulence
- Short & long term cost savings
- Environmentally friendly
- Safe, low sensing voltage
- Unaffected by fat, grease, debris and foam
- Positive pump cut-out
- Safe – MTISB Barrier

Reliable in all conditions

Operation is unaffected by build up of fat, grease debris and foam, which causes other systems such as floats, bubblers, pressure and ultrasonic transducers to fail. Turbulence does not affect the probe operation. The rugged, streamlined design eliminates tangling and is ideal for confined spaces.

Positive pump cut-out

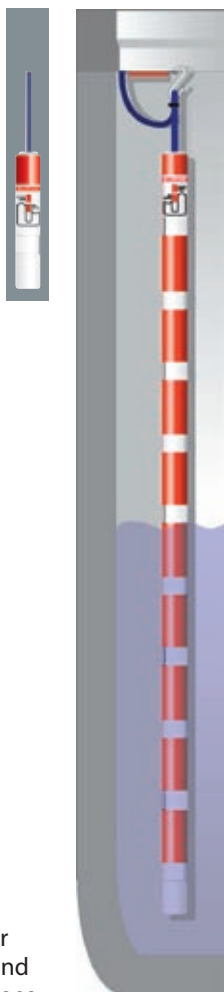
Operational consistency is important to longevity, low maintenance and cost control. The positive pump cut-out ensures pumps are turned off at the same level every time. This avoids damage due to pump over run and the cost of additional control equipment.

Safe for people and environment

The extra low sensing voltage ensures operators and maintenance staff are protected. All MultiTrobe products are environmentally safe, containing no mercury or other harmful contaminants.

Cost savings

The low cost of equipment, installation and maintenance makes MultiTrobe one of the most efficient level control systems available. Plus robust construction and longevity ensures continued cost savings when compared to other systems on the market.



Standard and custom probes

MultiTrobe manufactures a wide range of standard probes, from a single sensor (200mm) to a ten-sensor probe (1000mm increasing to a maximum of nine metres). Custom probes can be manufactured to suit your requirements.

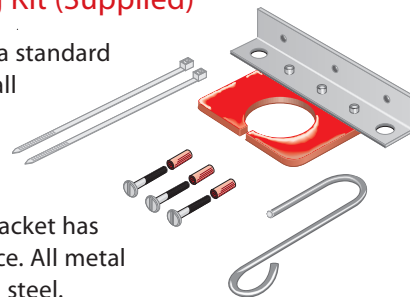
Installation

Installation is straightforward. Probes are easy to install without entering the wet area. The probe is simply lowered in from the top and suspended by its own cable, using the mounting kit supplied.

MTAK-1 Mounting Kit (Supplied)

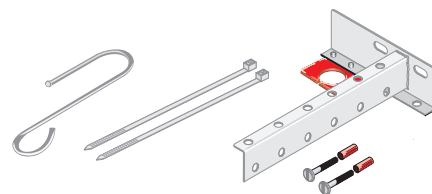
The mounting bracket is a standard accessory supplied with all multi-sensor probes (not standard with 0.2/1-xx single sensor probe).

The MTAK-1 mounting bracket has an integral cleaning device. All metal components are stainless steel.



MTAK-2 Mounting Kit (Optional extra)

This extended bracket provides up to 300mm extra wall clearance. This bracket is not included as standard with probes.



Ordering Examples and Information

Model Code	Probe Length (m/in)	Sensor Separation (mm/in)	Cable Length* (m/ft)	Number of Sensors
0.2/1-10	0.2/8	N/A	10/33	1
0.5/3-10	0.5/16	150/6	10/33	3
1.0/10-10	1/40	100/4	10/33	10
1.5/10-30	1.5/60	150/6	30/100	10
2.0/10-30	2/80	200/8	30/100	10
2.5/10-30	2.5/96	250/10	30/100	10
3.0/10-30	3/115	300/12	30/100	10
6.0/10-30	6/224	600/24	30/100	10
9.0/10-30	9/368	900/40	30/100	10

*Cable Length 10m/33ft or 30m/100ft

Probe Length (meters)	Sensor Points	Cable Length (meters)
2.5	10	10

MULTITRODE

www.multitrode.com

MultiTrobe Pty Ltd · Australia

Brisbane Technology Park 18 Brandl Street
PO Box 4633 Eight Mile Plains Qld 4113
Tel: +61 7 3340 7000 Fax: +61 7 3340 7077
sales@multitrode.com.au

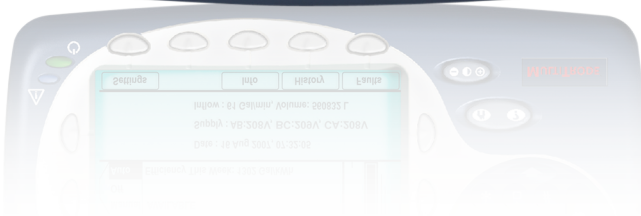
MultiTrobe Inc · USA

6560 East Rogers Circle
Boca Raton Florida 33487
Tel: +1 561 994 8090 Fax: +1 561 994 6282
sales@multitrode.net



MultiSmart Pump Station Manager

The new face of technology

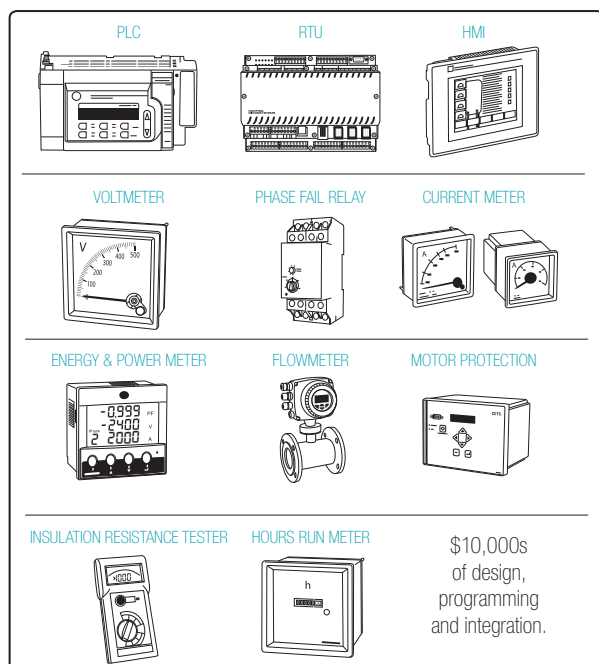


multitrode
WATER • WASTEWATER • PUMP STATION • TECHNOLOGY

Meet MultiSmart

What is a Pump Station Manager?

Why invest in PLCs, RTUs, pump controllers and \$1000s of programming?



MultiSmart Pump Station Manager is the next generation of technology for water and wastewater pump stations – combining the best of PLCs, RTUs and pump controllers into a comprehensive and intuitive package.

The Pump Station Manager integrates numerous control panel components, lowering control panel cost. It also includes pre-programmed logic specifically designed to significantly reduce operating costs.

MultiSmart does it all!



It's Easy,
It's Fast,
It Pays for Itself

Reduces
Energy
Cost &
CO₂ Footprint

Reduces control panel costs due to smaller enclosure size, lower design costs, significantly less wiring, fewer internal devices, lower deployment and commissioning cost, lower fabrication and installation costs

Easy to configure - "Setup Wizard" for commissioning of a new station

Built-in local SCADA without the added cost of HMI hardware and software

Remote control programming reduces maintenance cost and frequency of site visits via a simplified remote control

Cuts maintenance troubleshooting costs

Establishes pump energy efficiency by monitoring pump voltage and amperage to calculate real power consumption

Measures the energy used by each pump, calculates the flow and derives the efficiency of each pump

Decreases pump station electrical consumption by leveraging use of the most efficient pump

Pump Reversal feature allows you to avoid or remove pump blockages automatically

Trending pump efficiency over a period of time ensures intelligent maintenance & capital improvement programs

Determines ROI for maintenance procedures, providing automatic predictive maintenance via motor efficiency & Insulation Resistance Testing of motor windings

Valuable pre-programmed functions: odor reduction, maximum run time, station maximum pumps to run, fat build-up, pump maximum starts per hour, minimize excessive start, blocked pump detection & predictive maintenance alarming

MultiSmart Features

The MultiSmart has hundreds of features. Here are just a few...

Advanced pump control functionality for up to **six pumps** each with moisture, thermal, current and power monitoring and alarming

Max run time for a pump (switch to next pump and raise an alarm)

Run the **most efficient** pump (instead of fixed alternation)

Clean the well out by removing floatables on a regular basis

Multiple set-point profiles allow remote switching or on date/time for a variety of specific operations such as spill management or influx and infiltration reduction

Generator profile changes set points and limits max pumps to run when operating off a generator

Locked level raises an alarm when the level has not changed enough in a given time period (suspect level device)

Optional **VFD module** to control one or more pumps

VFD settings accessed via one screen

Supports a **security key** (based on the 'Dallas Key')

Mixer control agitates mixture in well

Rain Gauge input for Influx and Infiltration studies

Built-in pressure sensor for **DuoProbe** pressure compensation

FailSafe Probe input for monitoring health of Probe

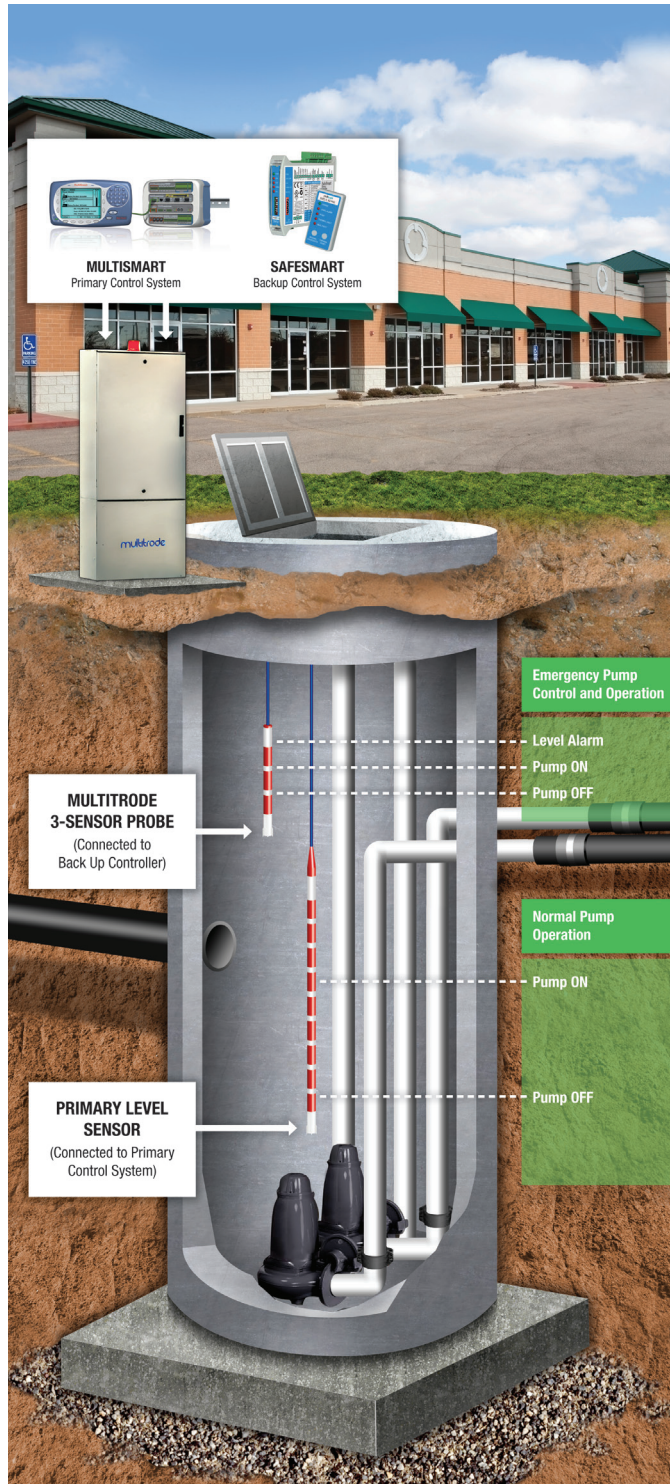
Each **fault configurable** as display only, hold out pump until fault clears, hold out pump until operator intervention, retry pump a set number of times after fault condition clears then finally lock out

Predictive **critical alarm** conditions (Time to Overflow)

Save/copy configurations using compact flash card

Flow without a flow meter

Data logger for 50,000 events (10,000,000 direct to CF card)



History page with detailed fault and event data (custom filters applicable)

3-phase supply voltage monitoring and protection

Flexible **RTU with MODBUS** and **DNP3** protocol for SCADA and local connectivity

Expandable I/O

Firmware and **feature upgrades** easily accessible via the web

620 tags (data points) per site

Connects to any **modern SCADA** platform

Supports Standardized **IEC 61131-3** programming languages

Built-in **control panel hardware**: Insulation Resistance Testing (Meg-Ohm-Meter), phase rotation, pump current monitoring, main service voltage monitoring, run time meters, level sensor auto fail-over, elimination of miniCAS relays, simulation mode and maintenance mode

Rapid hardware change out via DIN rail mount and removable terminal blocks

Local I/O configuration, status, set-point adjustments and alarming

Pump **commissioning** and **decommissioning**

Quick **programming recovery** via local Compact Flash card plus local and remote backup and recovery capability

Local historian (alarms and events) up to 20 GB plus 50,000 FIFO in RAM, plus historical data filtering

Odor reduction via max off time (ensures wells do not become septic)

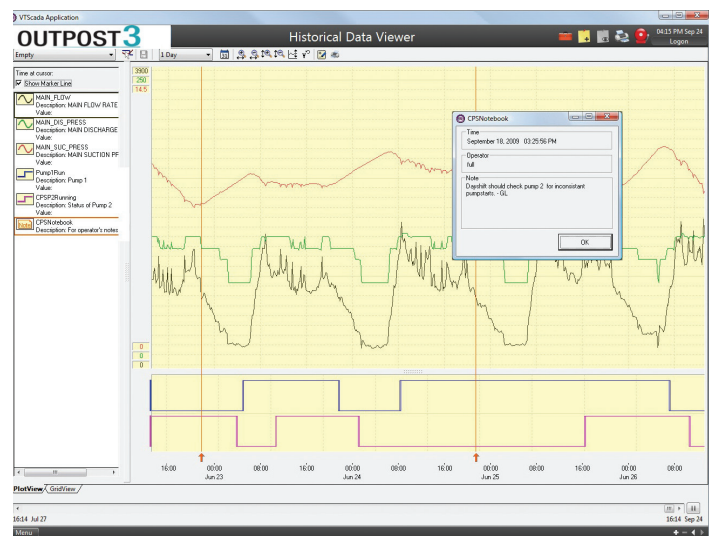
Blocked Pump Detection defines number of max starts on standby pump while duty pump is running

Designed to work with MultiTrove **SAFE-TL** and **SAFE-FSP backup system** to monitor moisture and thermal overload in parallel

Five-year **warranty**



Remote pump control screen with MultiSmart and OutPost3 SCADA or PumpView3 hosted SCADA



Typical trend report acquired by Outpost3 or PumpView3 from MultiSmart

Easy to Configure

As soon as you start using MultiSmart's user interface, you'll appreciate how easy it is to commission a new station – or change an existing station to maximize its efficiency and cost effectiveness. From something as simple as changing set-points to complex alternation schemes for large pump stations, MultiSmart empowers your operational staff.

The genius of MultiSmart is that each default has been thoughtfully designed. When a station is commissioned, almost everything will work exactly how you want, but nothing is fixed – any parameter can be changed, making MultiSmart quick to set up and adaptable.

For challenging applications where a new feature is required, an IEC61131-3 compliant logic engine (ladder logic and function block diagramming) is available. Any system integrator can extend functionality further, guaranteeing you total flexibility by adding your own custom logic.

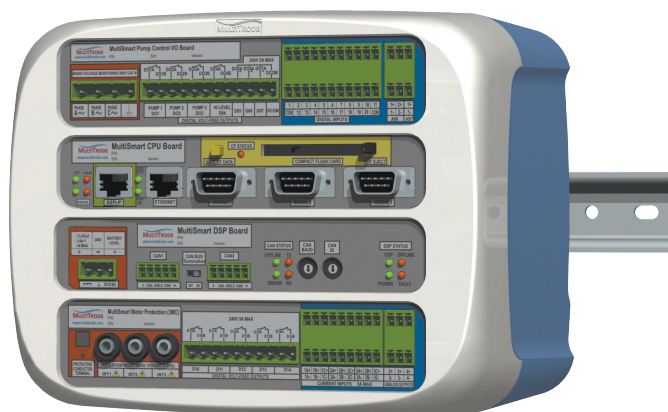
RTU-Only

MultiSmart can be purchased and used just as an RTU. The physical appearance is exactly the same – a unit which includes a host processor and communications board, a DSP board for processing I/O at high speed and I/O cards. Unlike standard RTUs that have contact closure digital inputs (DINs), the MultiSmart RTU can be configured to read resistive inputs (such as contact closures) or high speed counters.

To help reduce costs and complexity, a MultiSmart RTU can be configured to measure:

- Conductive level sensors
- Seal sensors
- PTC thermistors

Additionally, the MultiSmart RTU includes 4-20mA AINs, 4-20mA AOUT and DOUTs along with the configurable DINs.



Rate	Value
Station Inflow Rate	45 gals/min
Pump 1 Outflow Rate	912 gals/min
Pump 2 Outflow Rate	930 gals/min
Volume Pumped Today	98328 gals
Volume Pumped Yesterday	131359 gals
Volume Pumped This Week	409743 gals
Volume Pumped Last Week	840697 gals
Total Volume Pumped	63052320 gals
Number of Overflows	1
Last Overflow Time	15:13:05 24 Mar 2006
Total Overflow Volume	5407 gals

Easy setup

Station Settings – P2 of 3	
Motor Protection Over-current, under-current, phase fail (current), earth fault, insulation resistance testing.	Supply Protection Under-voltage, over-voltage protection, phase fail, phase rotation.
Customize Display Name pumps, change parameters on display, create custom help.	Communications Setup RS232 ports, DNP3, Modbus, Ethernet.
Flow Setup calculated flow, or flow from a flow meter.	Datalogger Select fault and event parameters to log.

Easy setup – Settings Menu 2

Station Settings – P3 of 3	
Backup Options Backup current configuration, restore current configuration, restore previous configuration.	Security Restrict access to configuration, link door switch to alarm.
Date/Time Date, time and locale information.	Software Modules List of enabled and disabled modules, enter key to enable new modules.
Logic Engine Change scan rate, enable/disable files.	Restart Unit Restart without cycling power.

Easy setup – Settings Menu 3

100

90

80

70

60

50

40

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20

10

Setpoints

Duty	On	50.00	50.00
	Off	10.00	10.00
Standby	On	60.00	60.00
	Off	20.00	20.00
Standby 2	On	70.00	70.00
	Off	30.00	30.00
Standby 3	On	80.00	80.00
	Off	40.00	40.00

Select

↑

↓

Switch profile

Use arrow buttons to select setpoint.

Use keypad to edit setpoint values.

Save

Cancel

Changing Setpoints – Intuitive

Reservoir Monitor

The MultiSmart Reservoir Monitor was designed for reservoirs filled from remote pump stations. It includes functionality for communicating directly to the remote pump station as well as the SCADA system. The user interface works in exactly the same way, with the same menu structure, as the MultiSmart Pump Station Manager, so no further training is required.

Specifications

User Interface

320 x 240 BACKLIT LCD SCREEN WITH SOFT-KEYS

Power Supply & Environmental

DC SUPPLY	12-24v (monitored to 5% accuracy)
POWER	15W max 11W max (without I/O-3MP board)
AMBIENT TEMPERATURE	14°F to 140°F / -10°C to 60°C
STORAGE TEMPERATURE	-40°F to 194°F / -40°C to 90°C
HUMIDITY	5% to 95% non-condensing
IP RATING	Controller: IP20 (NEMA 1 equivalent) Display (face plate): IP65 (NEMA 4 equivalent)
MAINS SUPPLY & BATTERY BACKUP	Optional

Physical Product

CONTROLLER DIMENSIONS	H 6 ³ / ₄ x W 8 ¹ / ₂ x D 6 ¹ / ₄ (in) H 173 x W 217 x D 159 (mm)
FACE PLATE DIMENSIONS	H 5 ⁵ / ₈ x W 9 ⁷ / ₈ x D 1 ⁵ / ₈ (in) H 144 x W 250 x D 42 (mm)
FACE PLATE DIMENSIONS WITH SERIAL PORT OCCUPIED	D 8 ¹ / ₄ (in) D 212 (mm)
MOUNTING	Direct to Standard, Dim Rail 1 ³ / ₈ (in) / 35 (mm)

*Note: I/O and software modules supplied depend on the configuration purchased.
All specifications are subject to change without notice.*





In the complicated world of water and wastewater management, there is good reason why MultiTrode stands unrivalled amongst its peers: We are committed to a singular vision of developing the latest technological advancements to provide sophisticated solutions to every day challenges in the water and wastewater industries.

Key to our success is the importance we place on customer satisfaction and solution-based products to save you time and money. From pump station management systems to engineering support, MultiTrode encompasses it all. By investing heavily in R&D, we remain on the cutting edge of technology and always ahead of our competitors.

Our products are proven. Our results are tangible. MultiTrode is unrivalled.

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June 8, 2020

Flygt, a Xylem Water Solutions company

To whom it may concern

Xylem Water Solutions, Flygt brand (Flygt) is the manufacturer of Flygt pumps and parts for your wastewater process. All equipment, components and parts associated with your Flygt equipment should originate from Flygt's Factories.

Flygt, A Xylem brand solely uses DXP \ Alaska Pump & Supply, Inc. as it's only authorized representation/direct distributor in the State of Alaska. All inquiries regarding Flygt equipment and parts as well as service

should be routed through DXP \ Alaska Pump & Supply, Inc.. Below is their contact information.

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8400 Sandlewood Place
Anchorage, AK 99507
Phone: (907) 563-3424

If there are any questions concerning the above statement please feel free to contact me

Sincerely,

Grant Stayberg

Territory Manager