

Item	Product Code/Number	Description	Pricing Adjustment to Base Bid
1	PP44S10L71-D2.9-GL2 MPC-10 -S	Credit - Downgrade to Trailer Mounted, Engine Driven, 4" Pump Pump Specifications - Pump Model: 44S10 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 10" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Platform: GL2 - Fuel Capacity: 75 US Gallons - Package Type: Open DOT Trailer w/ Electric Breaks - Engine Make/Model/HP/Tier: Deutz / D2.9L4A / 36 HP / FT4 - Control Panel: Murphy MPC-10 L1 (Standard)	-\$2,330.00
2	PP88S12L71-TCD3.6 UP3	Upgrade to Trailer Mounted, Engine Driven, 8" Pump Pump Specifications - Pump Model: 88S12 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 12.25" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Platform: UP3 - Fuel Capacity: 135 US Gallons - Package Type: Open DOT Trailer w/ Electric Brakes - Engine Make/Model/HP/Tier: Deutz / TCD3.6 / 111 HP / FT4 - Control Panel: Murphy MPC-10 L1 (Standard)	\$25,450.00

Item	Product Code/Number	Description	Pricing Adjustment to Base Bid
3	PP108S17L71-1706J	Upgrade to Trailer Mounted, Engine Driven, 10" Pump Pump Specifications - Pump Model: 108S17 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: FLANGED TO 10" 17.25" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Platform: GL3-XL - Fuel Capacity: 210 US Gallons - Package Type: Open DOT Trailer w/ Electric Brakes - Engine Make/Model/HP/Tier: Perkins / 1706J-E93TA / 335 HP / FT4 - Control Panel: Murphy MPC-10 L1 (Standard)	\$90,020.00
4	PP1212S17L71-1206F-GL3	Upgrade to Trailer Mounted, Engine Driven, 12" Pump Pump Specifications - Pump Model: 1212S17 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 16" @ 16 DEGREES - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Platform: GL3 - Fuel Capacity: 175 US Gallons - Package Type: Open DOT Trailer w/ Electric Brakes - Engine Make/Model/HP/Tier: Perkins / 1206F-E70TTA-242 / 242 HP / FT4 - Control Panel: Murphy MPC-10 L1 (Standard)	\$67,740.00
5	SAPP44S10L71-D2.9-GL2 MPC-10 -S	Upgrade to sound attenuated enclosure for Trailer Mounted, Engine Driven, 4" Pump Option	\$10,200.00
6	SAPP66S12L71	Upgrade to sound attenuated enclosure for Trailer Mounted, Engine Driven, 6" Pump Option	\$12,920.00
7	SAPP88S12L71-TCDD3.6 UP3	Upgrade to sound attenuated enclosure for Trailer Mounted, Engine Driven, 8" Pump Option	\$13,600.00
8	SAPP108S17L71-1706J	Upgrade to sound attenuated enclosure for Trailer Mounted, Engine Driven, 10" Pump Option	\$15,530.00
9	SAPP1212S17L71-1206F-GL3	Upgrade to sound attenuated enclosure for Trailer Mounted, Engine Driven, 12" Pump Option	\$21,590.00

Item	Product Code/Number	Description	Pricing Adjustment to Base Bid
10	PP44S10L71-HO-40-4 BCG 10" TEFC PIO GRN	Credit - Downgrade from trailer mounted, engine driven to skid mounted, electric motor for 4" Pump Option Pump Specifications - Pump Model: 44S10 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 10" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Base Type: Base/Coupling/Guard - Motor Mfr / Model No.: Non-Specific ("Z") - - Speed: 60 Hz/4 Pole - 1800 RPM - Frame Size/HP: 324T/40 HP - Volts/Phase/Hz: 460V/ 60HZ / 3PH - Efficiency Type: Premium Efficiency - Enclosure Type: TEFC - Motor Drive: No Drive	-\$19,040.00
11	PP66S12L71-HO-60-4 BCG, TEFC T11.0	Credit - Downgrade from trailer mounted, engine driven to skid mounted, electric motor for 6" Pump Option Pump Specifications - Pump Model: 66S12 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 11" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Base Type: Base/Coupling/Guard - Motor Mfr / Model No.: Non-Specific ("Z") - - Speed: 60 Hz/4 Pole - 1800 RPM - Frame Size/HP: 364T/60 HP - Volts/Phase/Hz: 460V/ 60HZ / 3PH - Efficiency Type: Premium Efficiency - Enclosure Type: TEFC - Motor Drive: No Drive	-\$15,010.00

Item	Product Code/Number	Description	Pricing Adjustment to Base Bid
12	PP88S12L71-HO-100-4 BCG 12" TEFC PIO GRN	Credit - Downgrade from trailer mounted, engine driven to skid mounted, electric motor for 8" Pump Option Pump Specifications - Pump Model: 88S12 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 12" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Base Type: Base/Coupling/Guard - Motor Mfr / Model No.: Non-Specific ("Z") - - Speed: 60 Hz/4 Pole - 1800 RPM - Frame Size/HP: 405T/100 HP - Volts/Phase/Hz: 460V/ 60HZ / 3PH - Efficiency Type: Premium Efficiency - Enclosure Type: TEFC - Motor Drive: No Drive	-\$3,040.00
13	PP108S17L71-HO-400-4 BCG 17.25 FLNG 10"	Upgrade from trailer mounted, engine driven to skid mounted, electric motor for 10" Pump Option Pump Specifications - Pump Model: 108S17 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: FLANGED TO 10" 17.25" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Base Type: Base/Coupling/Guard - Motor Mfr / Model No.: Non-Specific ("Z") - - Speed: 60 Hz/4 Pole - 1800 RPM - Frame Size/HP: 449T/400 HP - Volts/Phase/Hz: 460V/ 60HZ / 3PH - Efficiency Type: Premium Efficiency - Enclosure Type: TEFC - Motor Drive: No Drive	\$29,210.00

Item	Product Code/Number	Description	Pricing Adjustment to Base Bid
14	PP1212S17L71-HO-400-4 BCG 17.25" TEFC GR	Upgrade from trailer mounted, engine driven to skid mounted, electric motor for 12" Pump Option Pump Specifications - Pump Model: 1212S17 - Pump Type: Pioneer Prime - Volute discharge orientation: Top Horizontal (TH) - Impeller Trim: 17.25" - Seal Type: Run Dry Mechanical Seal - Bearing Frame: Horizontal (Bare Shaft) - Oil Lube - Materials of Construction: 71 - "Ductile Iron w/ CA6Nm Impeller" - Paint Color: Pioneer Green Standard Package Specifications - Base Type: Base/Coupling/Guard - Motor Mfr / Model No.: Non-Specific ("Z") - - Speed: 60 Hz/4 Pole - 1800 RPM - Frame Size/HP: 449T/400 HP - Volts/Phase/Hz: 460V/ 60HZ / 3PH - Efficiency Type: Premium Efficiency - Enclosure Type: TEFC - Motor Drive: No Drive	\$82,840.00
15	GL2 PLATFORM	Credit- Downgrade to skid base (Delete Trailer) for 4" Pump Option	-\$1,760.00
16	GL2 PLATFORM	Credit- Downgrade to skid base (Delete Trailer) for 6" Pump Option	-\$1,760.00
17	UP3 PLATFORM	Credit- Downgrade to skid base (Delete Trailer) for 8" Pump Option	-\$3,150.00
18	GL3 XL PLATFORM	Credit- Downgrade to skid base (Delete Trailer) for 10" Pump Option	-\$6,300.00
19	GL3 PLATFORM	Credit- Downgrade to skid base (Delete Trailer) for 12" Pump Option	-\$6,300.00
20	CIER3R-CENP040-P4-3	Add VFD to skid mounted, electric motor 4" Pump Option	\$5,770.00
21	CIER3R-CENP060-P4-3	Add VFD to skid mounted, electric motor 6" Pump Option	\$8,220.00
22	CIER3R-CENP100-P4-3	Add VFD to skid mounted, electric motor 8" Pump Option	\$11,620.00
23	341C3R/CNP350GLX-J-02	Add VFD to skid mounted, electric motor 10" Pump Option	\$31,760.00
24	341C3R/CNP350GLX-J-02	Add VFD to skid mounted, electric motor 12" Pump Option	\$31,760.00
25	DEL CP-4	Credit - Delete Control Panel from 4" Pump Package	-\$2,680.00

Item	Product Code/Number	Description	Pricing Adjustment to Base Bid
26	DEL CP-6	Credit - Delete Control Panel from 6" Pump Package	-\$2,830.00
27	DEL CP-8	Credit - Delete Control Panel from 8" Pump Package	-\$4,590.00
28	DEL CP-10	Credit - Delete Control Panel from 10" Pump Package	-\$6,370.00
29	DEL CP-12	Credit - Delete Control Panel from 12" Pump Package	-\$6,370.00
30	STR	Credit - Change to site trailer	-\$520.00
31	Add - SBC	Optional Equipment – Solar Battery Charger	\$370.00
32	Add - BC	Optional Equipment – 12 Volt Trickle Battery Charger	\$260.00
33	Add - ST	Optional Equipment – Spare Tire	\$620.00
34	Add - TS	Optional Equipment – Tool/Storage Box	\$590.00
35	Add - HS	Optional Equipment – Hose Storage	\$2,080.00
36	Add - WL	Optional Equipment – Work Lights	\$430.00
37	N/A	Included – Stainless Steel Hardware	\$0.00
38	N/A	Included – Stainless Steel Muffler	\$0.00
39	N/A	Included – Brakes	\$0.00
40	N/A	Included - 2-Year Warranty	\$0.00

GREENLINE

Pioneer Prime Diesel-Driven Centrifugal Pump

PP44S10L71-D2.9L-GL2

PUMP SPECIFICATIONS

Size	4" x 4" (100 x 100 mm)
Max Flow	1,600 gpm (370 m ³ /h)
Max Head	150 feet (50 meters)
Solids Size	3" (76 mm)

ENGINE SPECIFICATIONS

Engine Type	Deutz D2.9L, 4-Cylinder Diesel, Final Tier 4
Displacement	177 cu. in. (2.9 l)
Fuel Burn Rate (gph)	1.95 gph (full load)
Continuous HP	36 HP @ 1800 rpm
Safety Shut Down Switches	Low oil pressure, high temperature, and v-belt failure
Instrument Panel	Oil pressure gauge, ampmeter, hourmeter, and tachometer

ULTRAPRIME™ PRIMING SYSTEM

Priming System	Mech. driven diaphragm-style vacuum pump
Air Removal Capability	50 cfm
Priming Chamber	Positive sealing air separation PosiValve™ w/SS float ball & linkage
Discharge Check Valve	Swing style; ductile iron w/nitrile disc
Run Dry System	Oil-lubricated mech. seal allows pump to run completely dry w/o damage



FEATURES

- Indefinite run-dry capability
- Extreme flow technology
- Environmentally safe priming system with patented PosiValve™
- Auto-start controls
- Electric trailer brakes optional

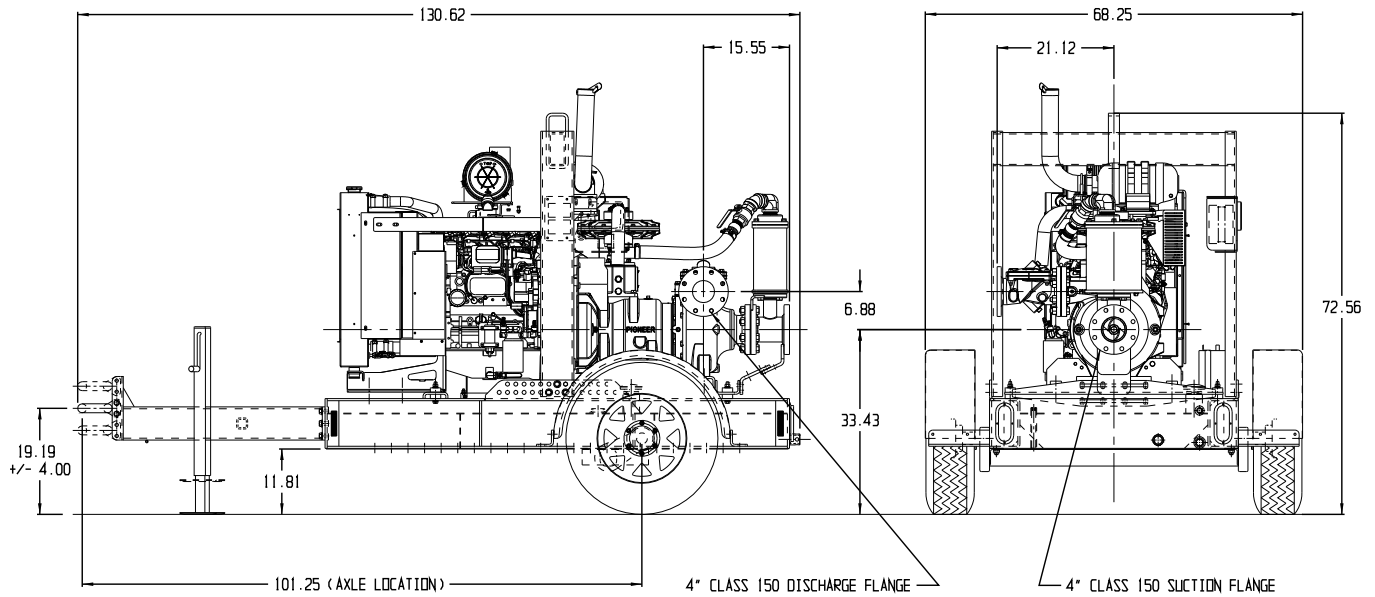
SPECIFICATIONS

Fuel Capacity	75 gallons
Control Panel	Murphy MPC-10
Dimensions (L x W x H)	131 x 70 x 73
Runtime (hours)	38.5 hours
Other Specifications	Vibration isolated, lifting bail, leak-proof diesel cap, analog fuel gauge, tank clean-out, drip pan drain
SAE	SAE engine-mount bracket options available

MATERIALS OF CONSTRUCTION

Material	Standard Construction
Impeller	CA6NM SS
Shaft	17-4 PH
Wear Ring	Gray Iron
Suction Cover	Ductile Iron
Volute	Ductile Iron
Brac-Plate/Bracket	Ductile Iron
Mechanical Seal	Tungsten vs. Silicon Carbide

MECHANICAL DIMENSIONS



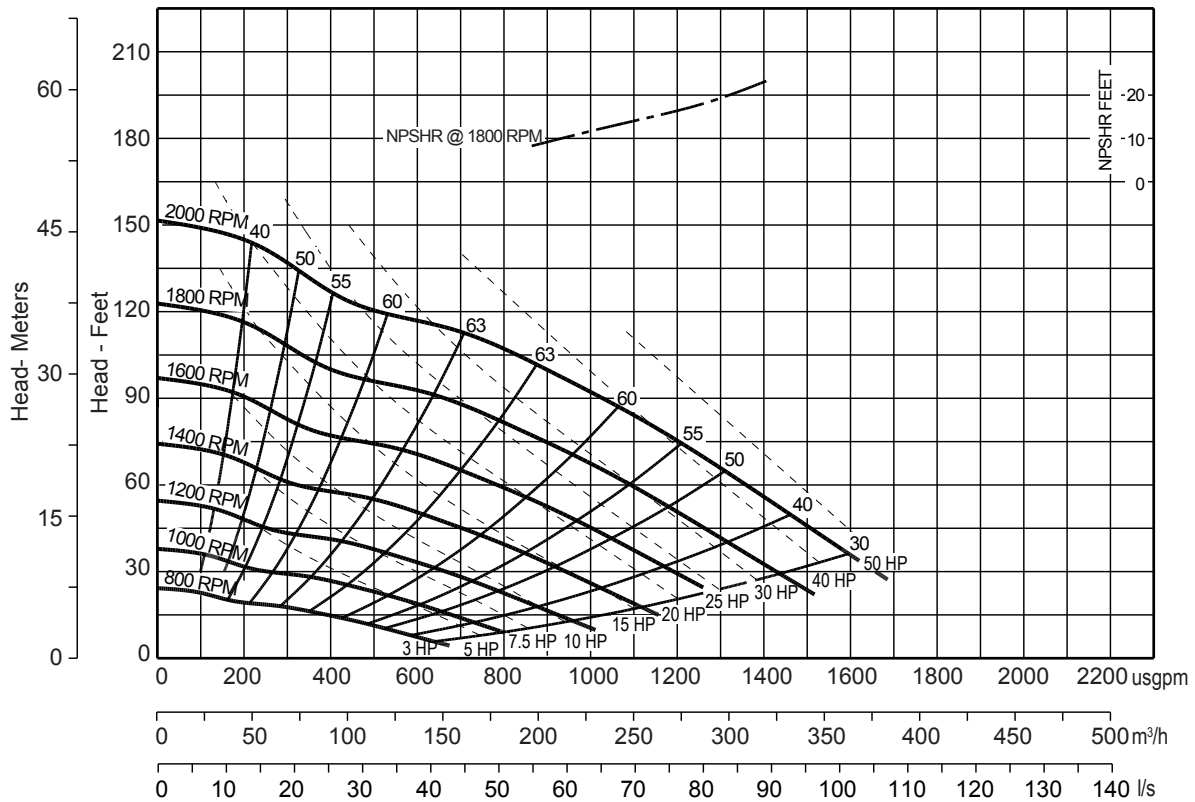
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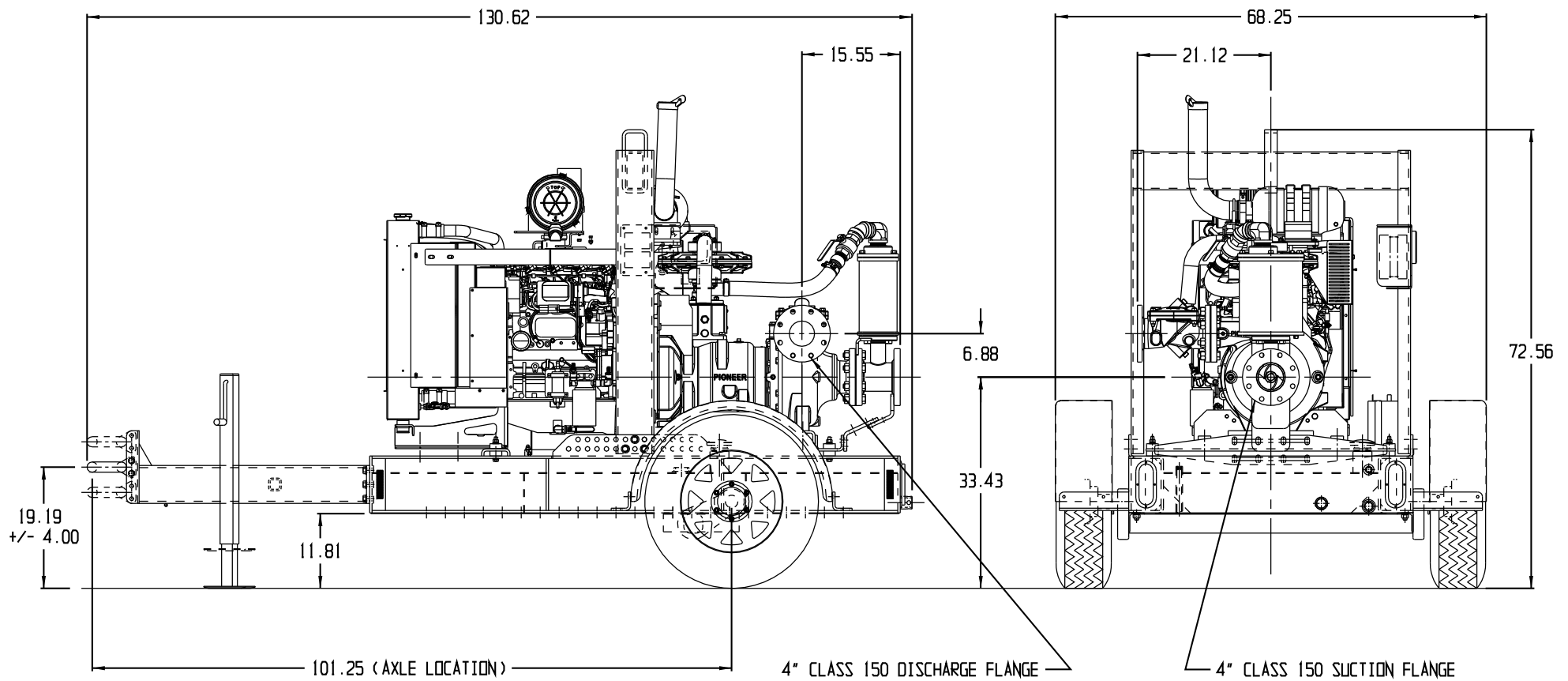
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Impeller Dia: 10"

Solids Size: 3"

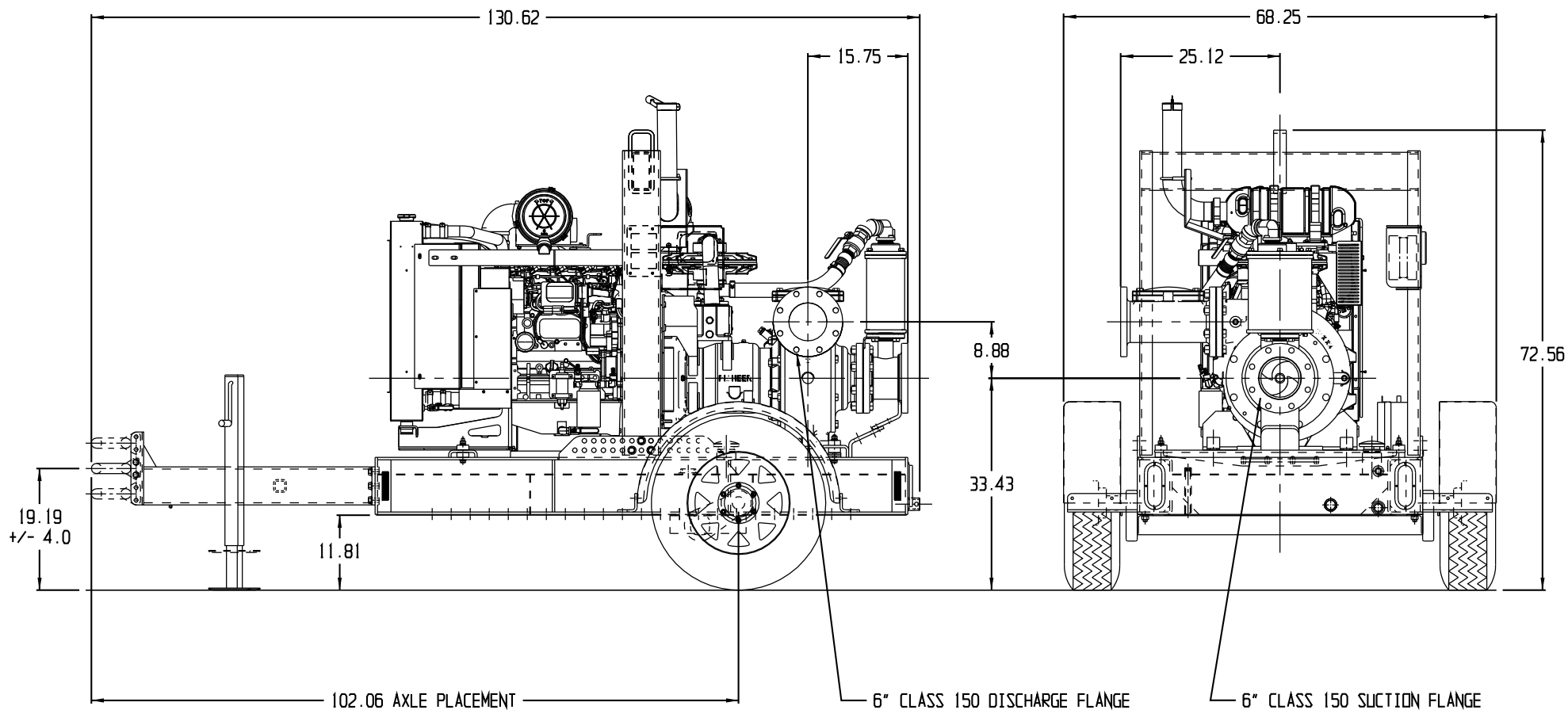
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MODEL : PP44S10-D2.9L4-GL2 TRAILER

DWG NO. 17528A
REVISION: 000
DRAWN BY: MG
DATE: 05/05/2017



PIONEER PUMP
PERFORMANCE THROUGH INNOVATION™

MODEL : PP66S12-TD2.9L4-GL2 TRAILER

DWG NO. 17521A
REVISION: 000
DRAWN BY: MG
DATE: 05/03/2017

GL SERIES

Pioneer Prime Diesel-Driven Centrifugal Pump

PP66S12L71-TD2.9-GL2

The Pioneer Pump® GL Series pump packages move large volumes of water in nearly any rugged industrial, municipal, agricultural, mining, dewatering, or rental application. The patented, environmentally safe vac-assist priming system with PosiValve™ evacuates air faster to accelerate and simplify priming, while efficient tank sizes provide up to 30 hours of runtime at full load. Engineered for modularity, the GL Series is available in skid or trailer configurations with a variety of build options to fit each application, and is fully Tier IV ready with the flexibility to offer multiple engine options.



PUMP SPECIFICATIONS

Size	6" x 6" (150 x 150 mm)
Max Flow	3,200 gpm (730 m³/h)
Max Head	130 feet (40 meters)
Solids Size	3" (76 mm)

ENGINE SPECIFICATIONS

Engine Type	Deutz TD2.9L, 4-Cylinder Diesel, Final Tier 4
Displacement	177 cu. in. (2.9 l)
Fuel Consumption	3.67 gph (13.9 l/h) @ 1800 rpm (full load)
Continuous HP	58 HP @ 1800 rpm
Safety Features	Low oil press., high temp., v-belt failure
Instrument Panel	Oil pressure gauge, ampmeter, hourmeter, tachometer

PRIME VAC-ASSIST PRIMING SYSTEM

Priming System	Mechanically driven vacuum pump
Air Removal Cap.	50 cfm
Priming Chamber	Air separation PosiValve™ w/SS components
Discharge Check Valve	Ductile iron body; swing flex nitrile rubber flapper
Run Dry System	Oil reservoir for mechanical seal; indefinite run-dry capability

FEATURES

- Indefinite run-dry capability
- Extreme flow technology
- Environmentally safe priming system with patented PosiValve™
- Auto-start controls

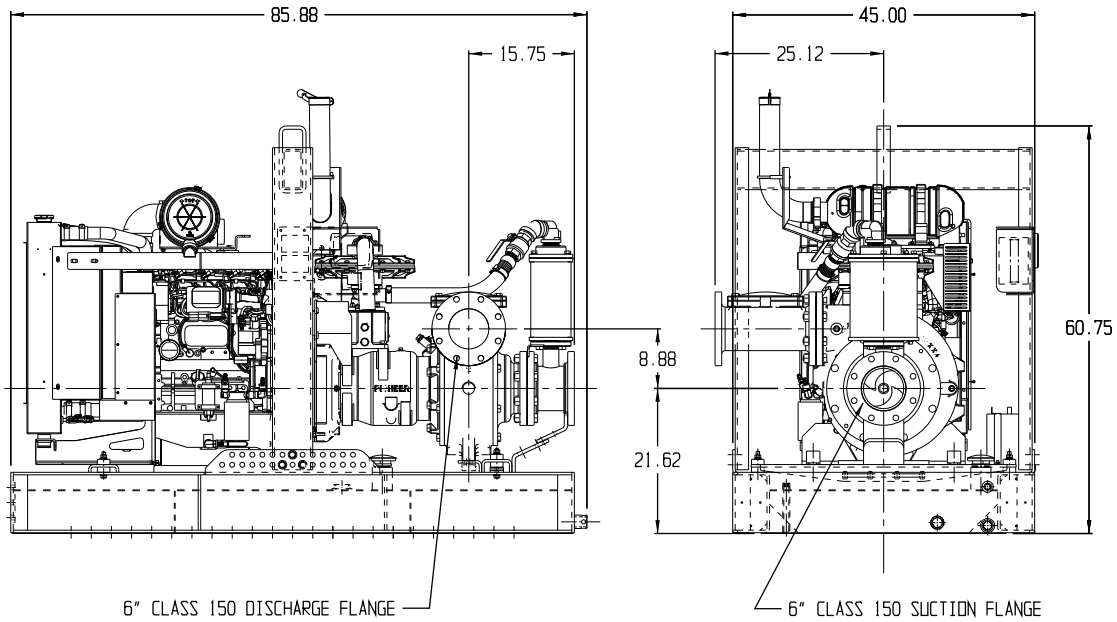
SPECIFICATIONS

Control Panel	Murphy MPC-10
Dimensions (L x W x H)	86 x 45 x 61 in.
Fuel Capacity	75 U.S. gallons
Fuel Usage	3.67 gph
Runtime	20.4 hours (full load @ 1800 rpm)
Other Specifications	Vibration isolated, lifting bail, leak-proof diesel cap, analog fuel gauge, tank clean-out, drip pan drain

MATERIALS OF CONSTRUCTION

Material	Standard Construction
Impeller	CA6NM SS
Shaft	17-4 PH
Wear Ring	Gray Iron
Suction Cover	Ductile Iron
Volute	Ductile Iron
Brac-Plate/Bracket	Ductile Iron
Mechanical Seal	Tungsten vs. Silicon Carbide
O-rings	FKM

MECHANICAL DIMENSIONS



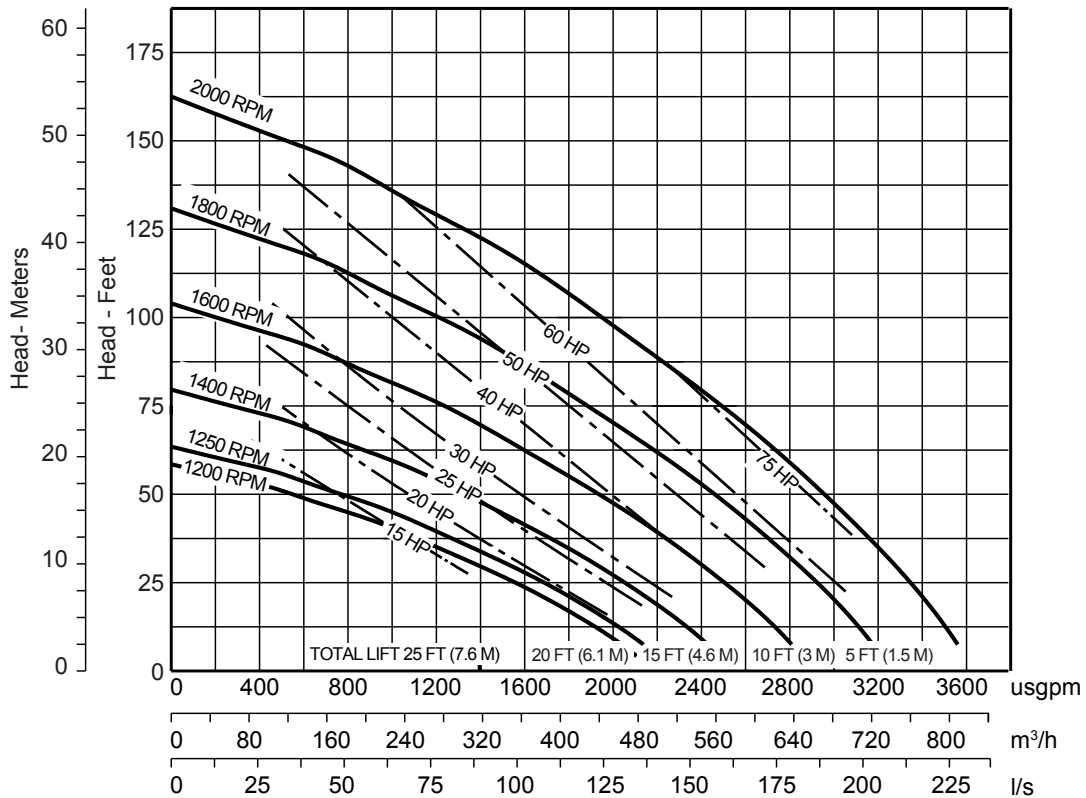
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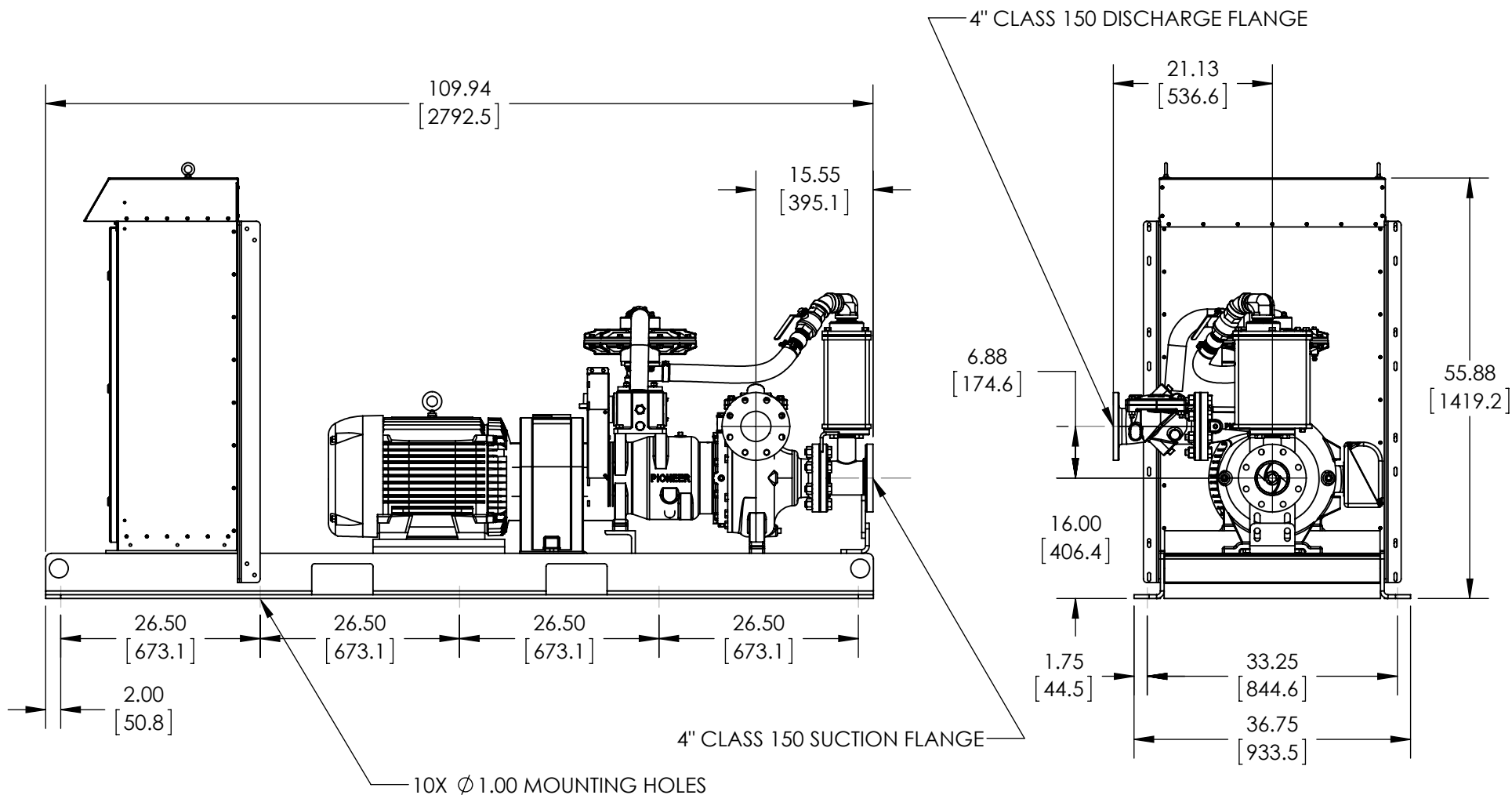
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Impeller Dia: 11"

Solids Size: 3"

Curve #A928HQ





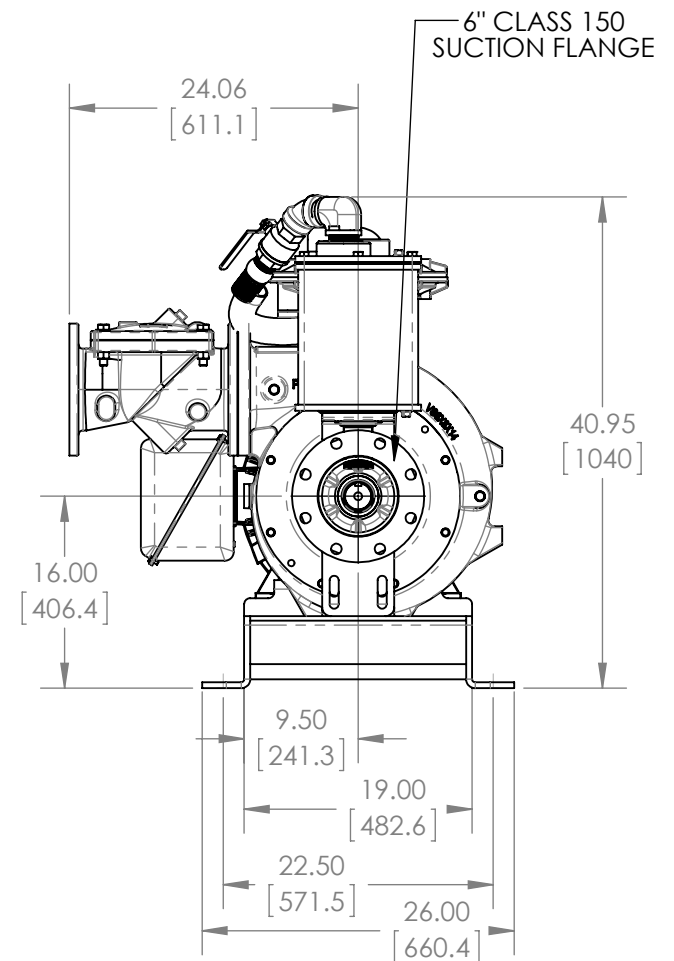
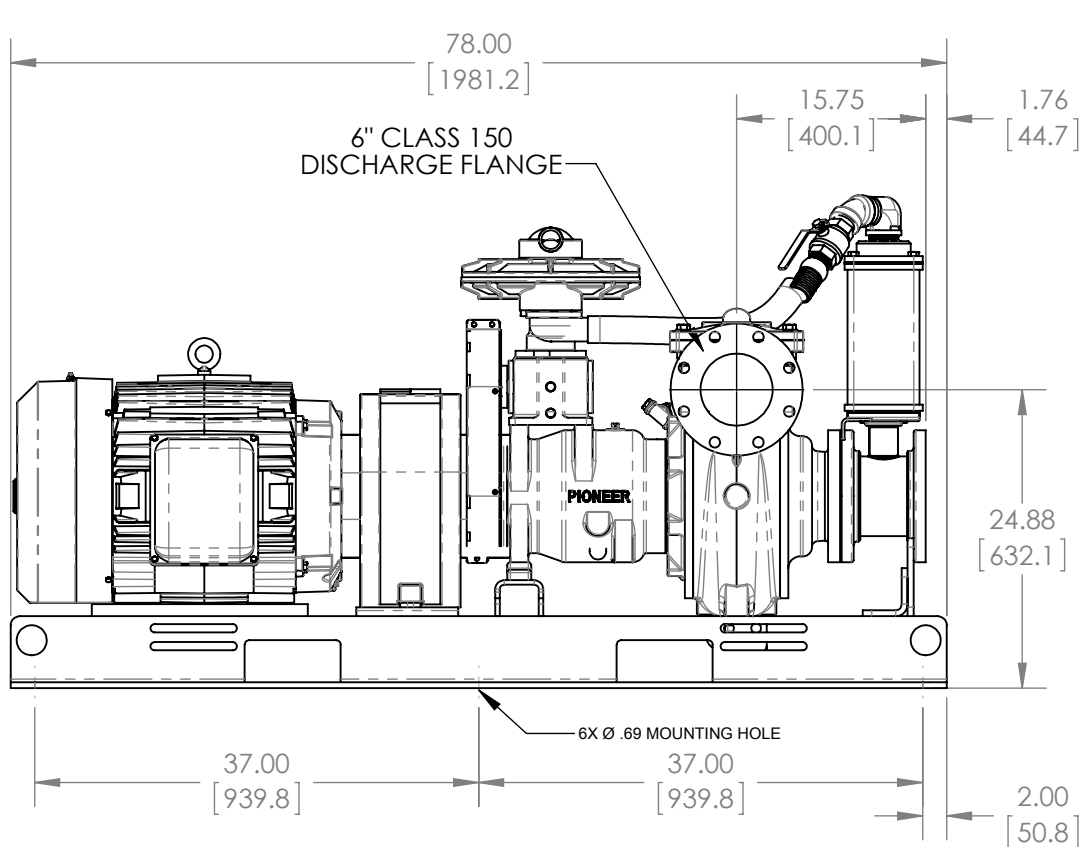
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NOTE:
1) PUMP AND MOTOR ARE NET.
PUMP MAY NEED TO BE SHIMMED TO FIT.

DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ± 0.125 [3.2]

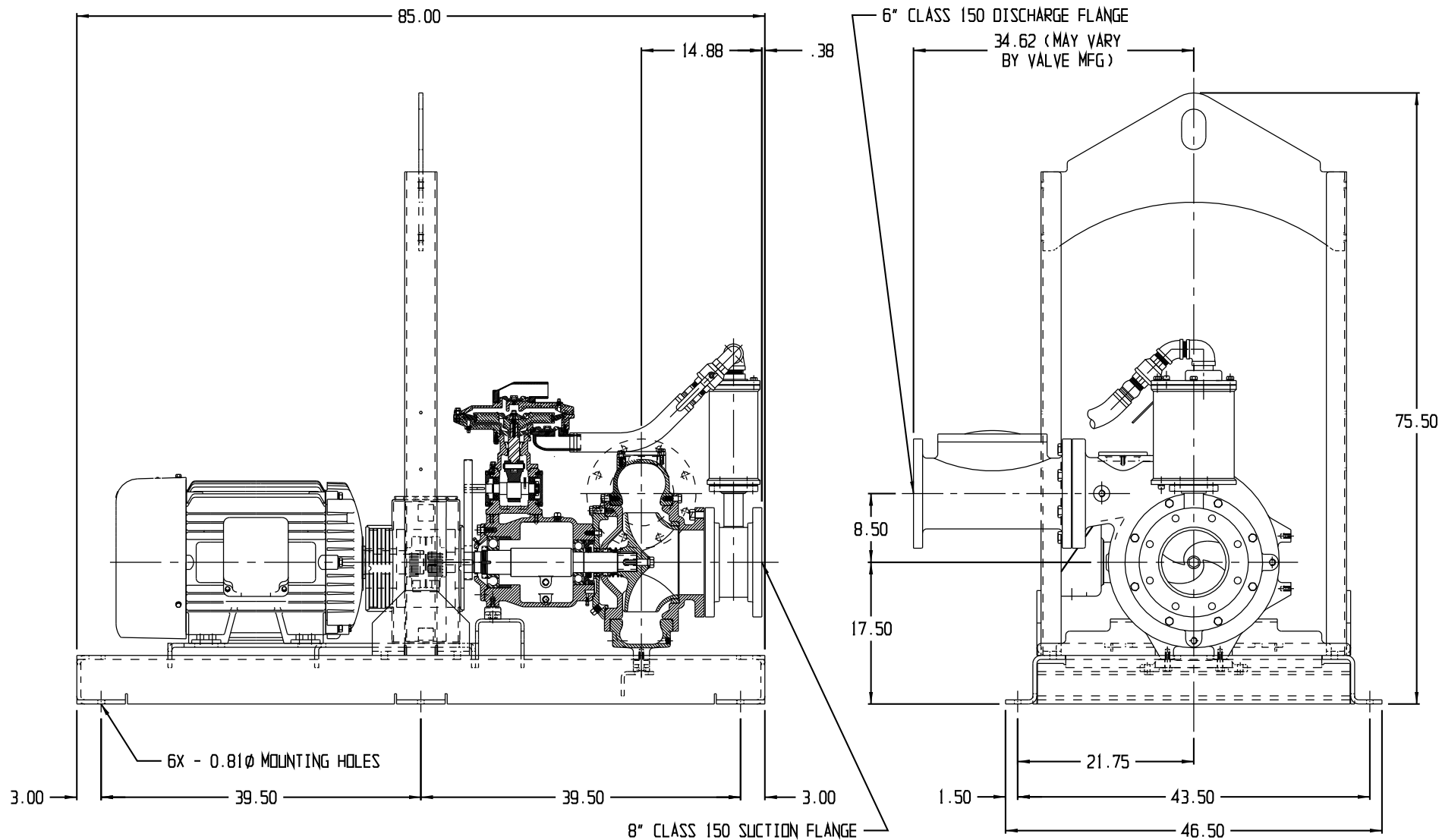
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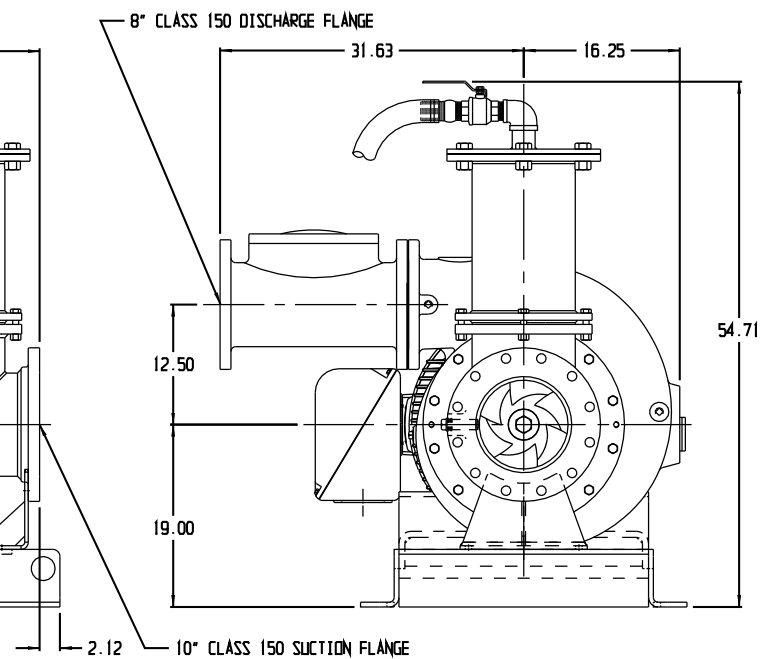
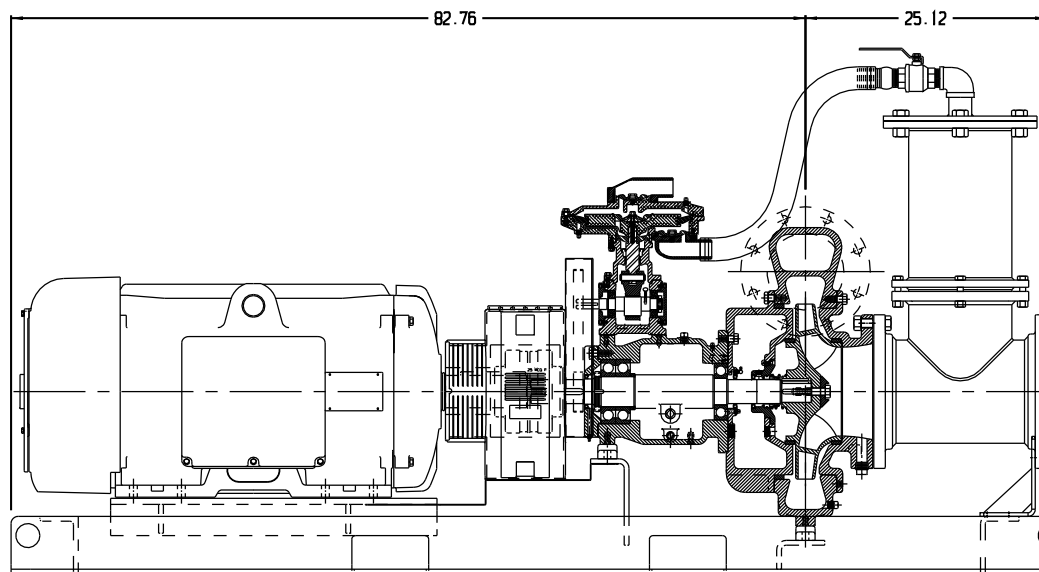
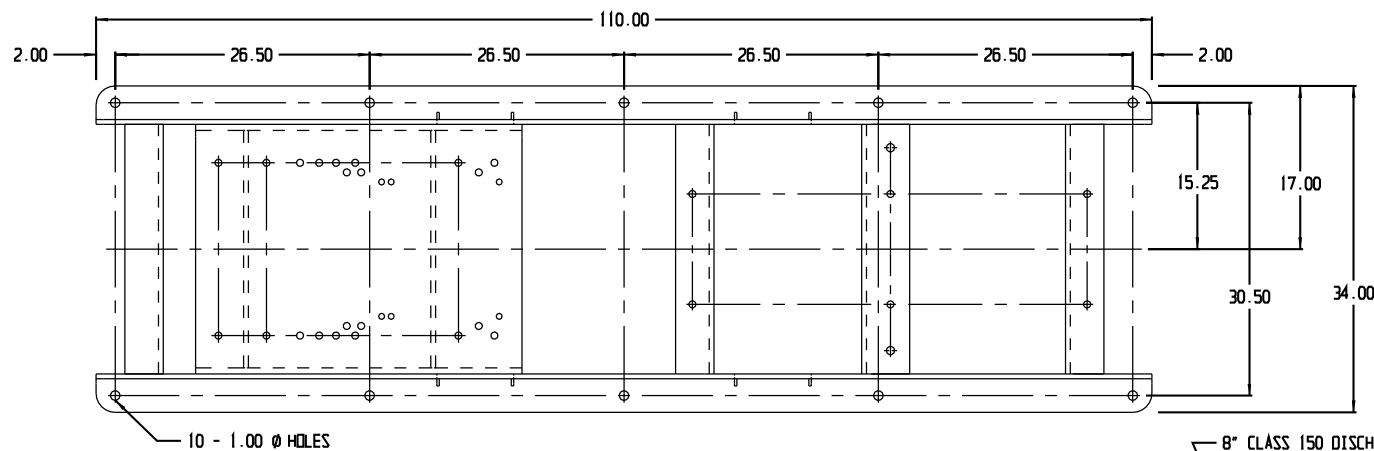




PIONEER PUMP
PERFORMANCE THROUGH INNOVATION™

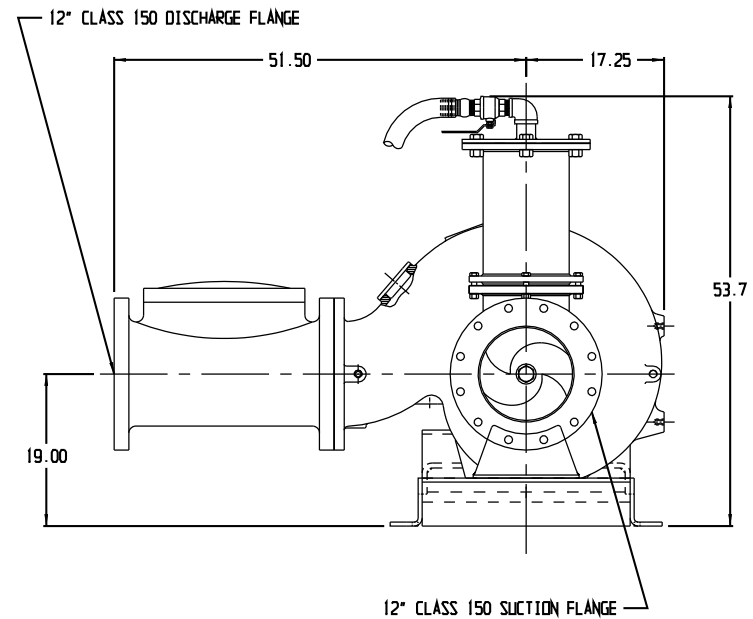
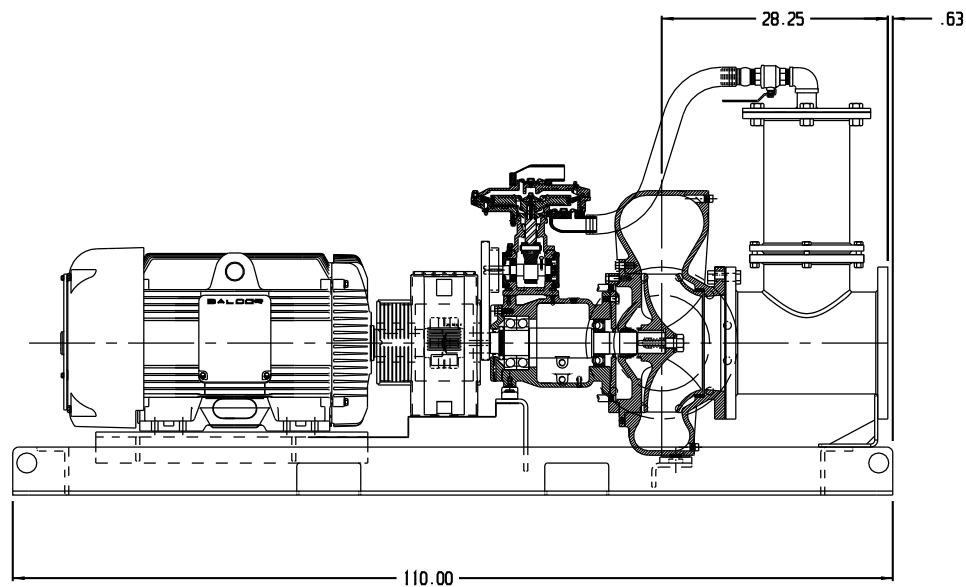
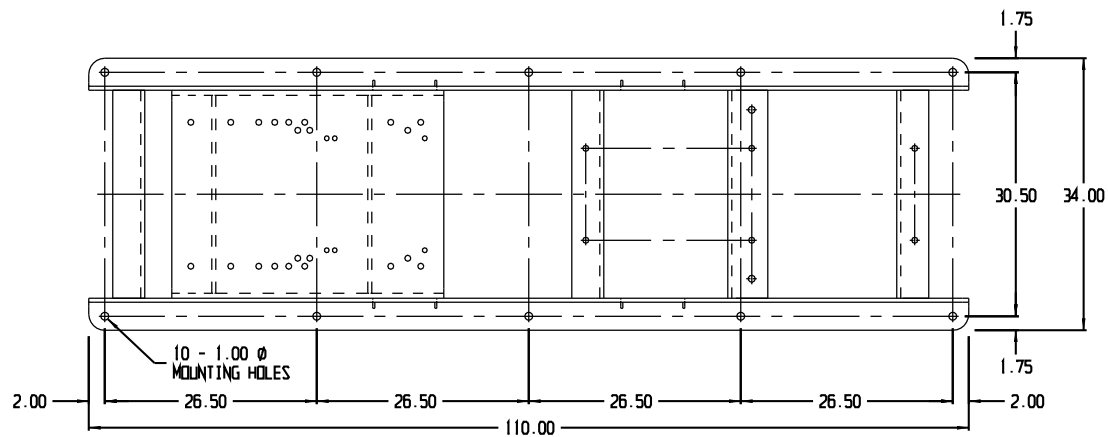
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DATE: 04/23/2015



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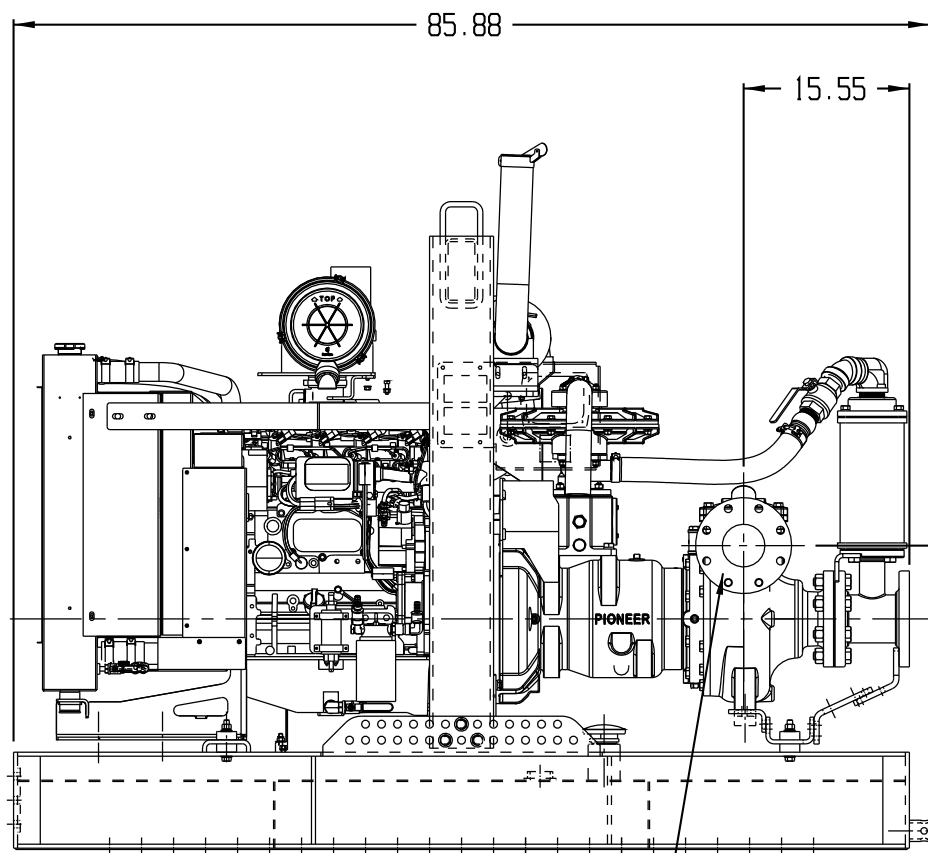
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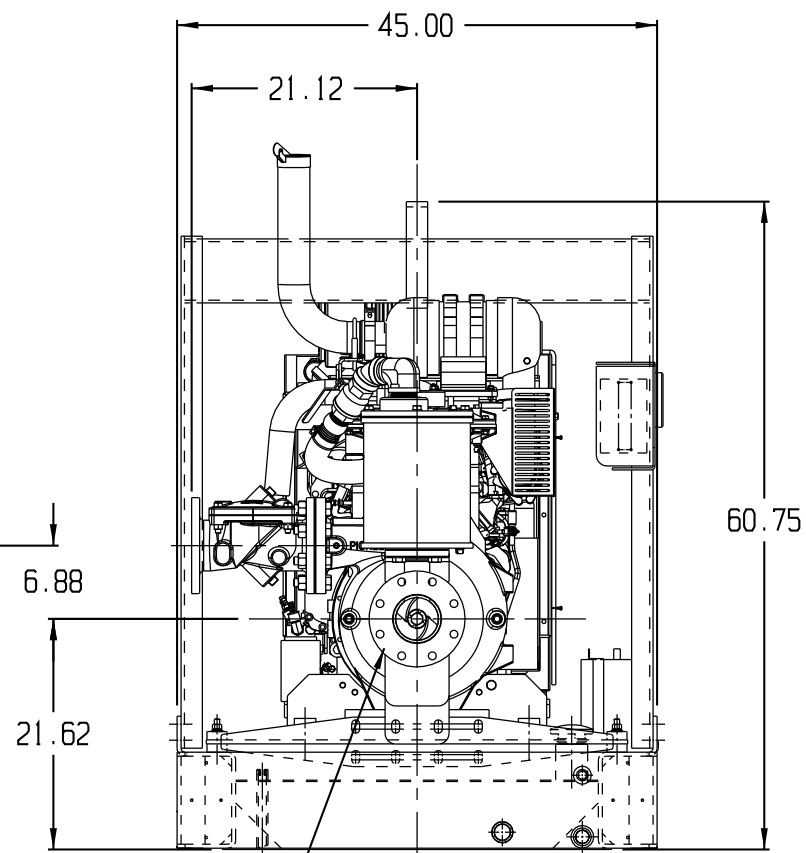
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MODEL : PP1212S17-BH12.5-447T, BCG
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DATE: 07/09/2014



4" CLASS 150 DISCHARGE FLANGE

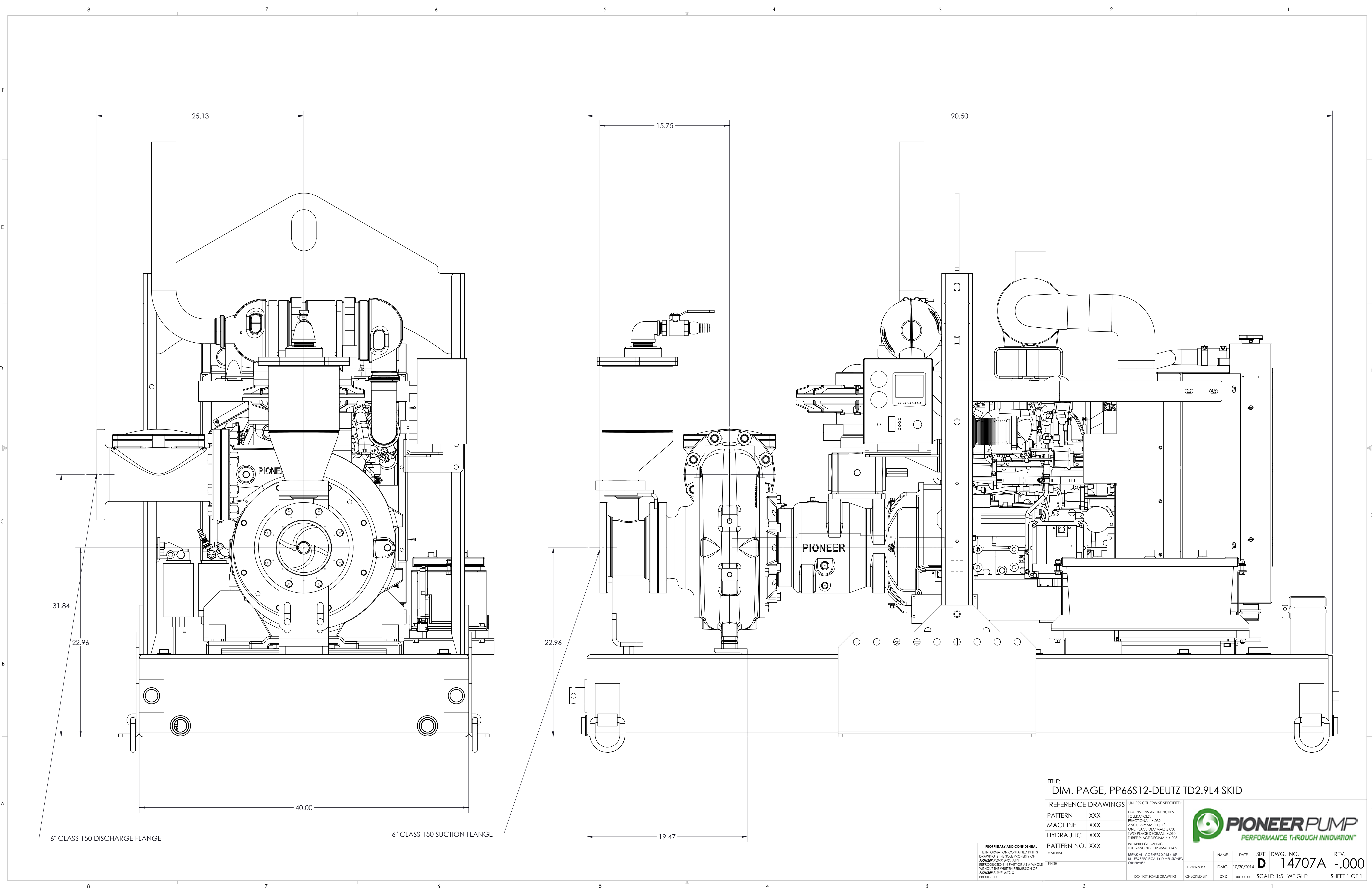


4" CLASS 150 SUCTION FLANGE



MODEL : PP44S10-D2.9L4-GL2 SKID

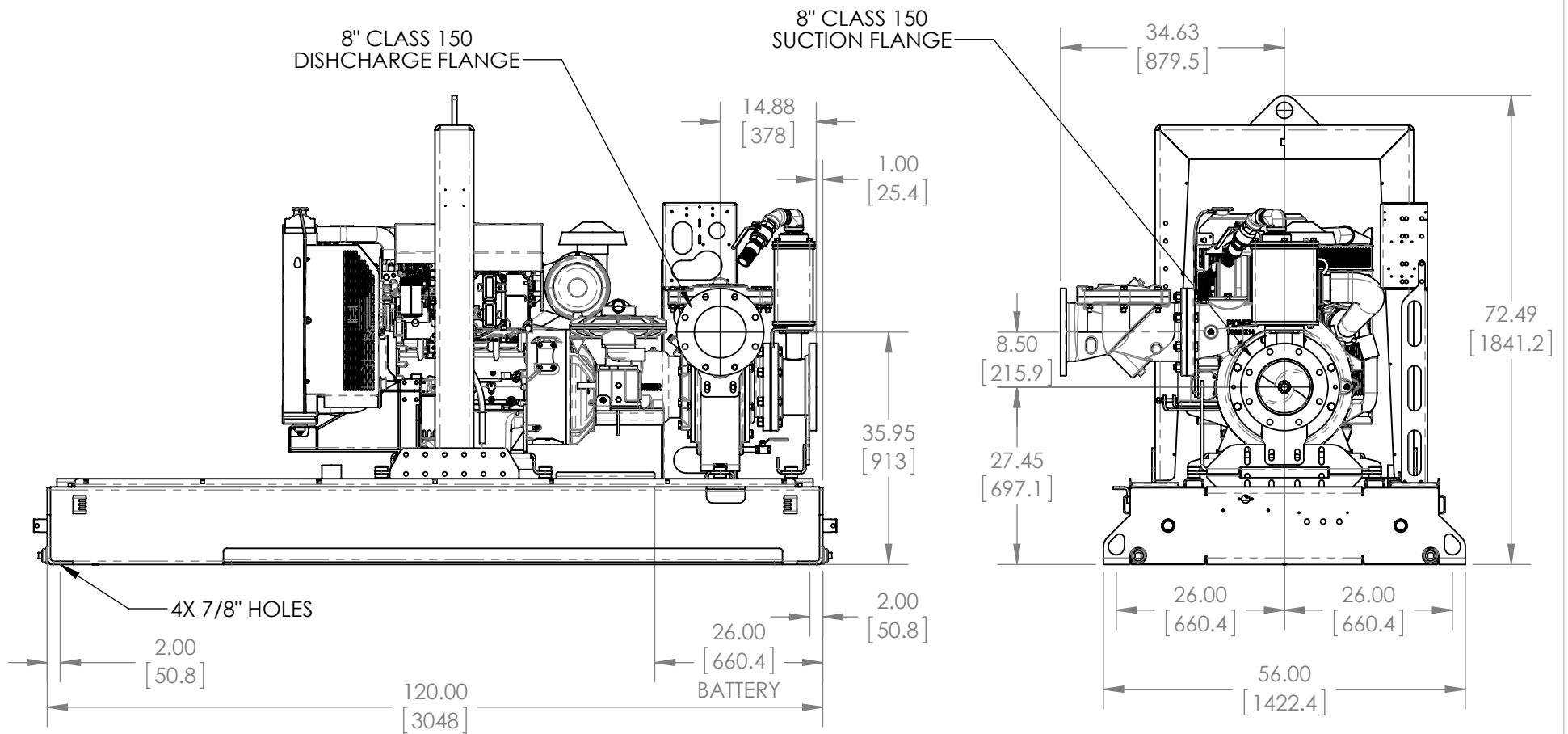
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TITLE: DIM. PAGE, PP66S12-DEUTZ TD2.9L4 SKID										
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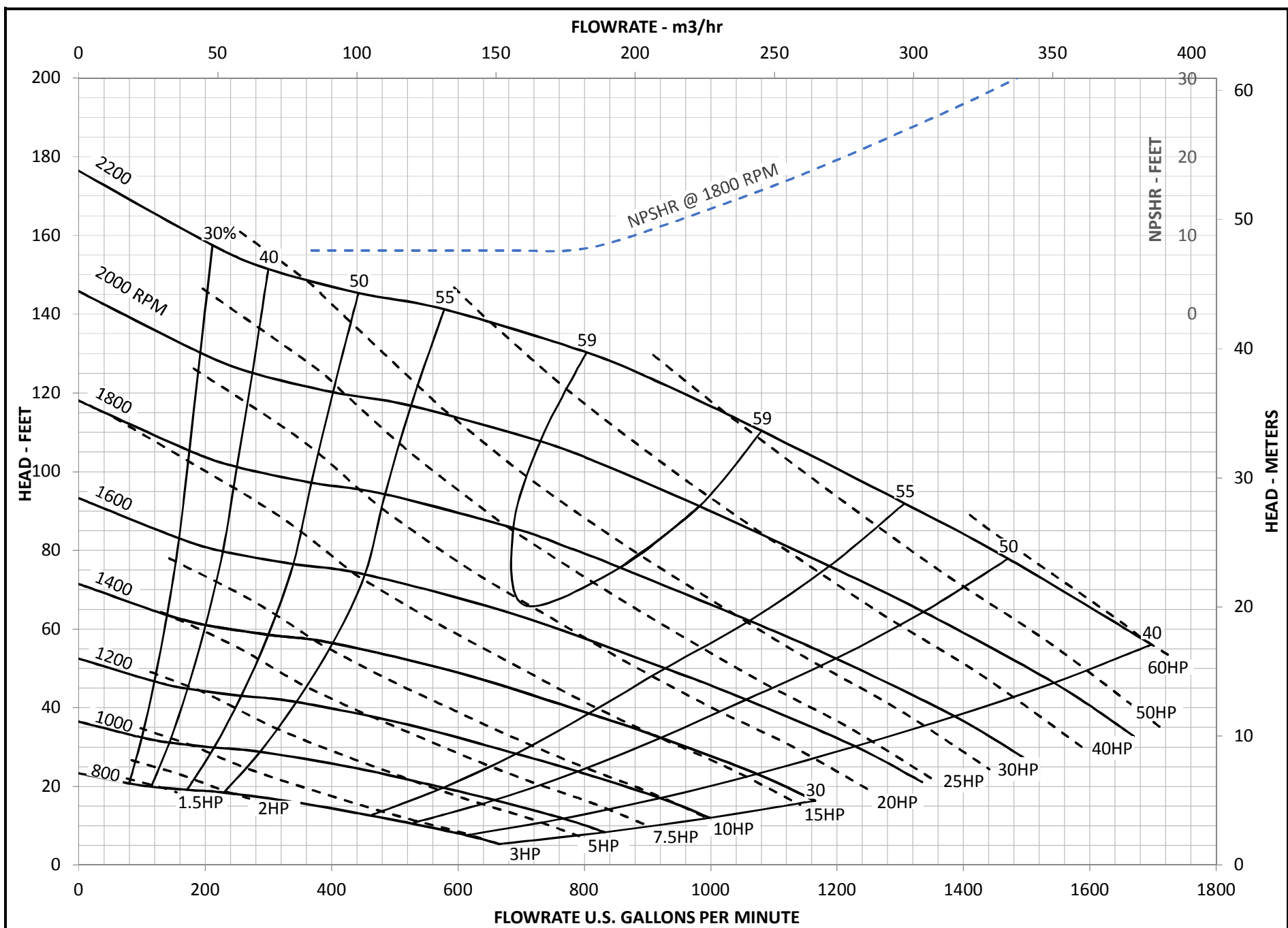
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TITLE:
DIM. PAGE PPSK88S12-1104D-E44TA UP3 FUEL SKID

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MODEL:	PP44S10		SPECIFIC GRAVITY	1.0
SIZE:	4" x 4"	100mm x 100mm	DRWG NO.	PP44S10-VS-10
IMPELLER DIAMETER:	10.00"	254 mm	REVISION	000
SOLIDS HANDLING SIZE:	3.0"	75 mm	DATE	3 Apr 2017



Pioneer Prime

PP44S10L71



Typical Pump Configuration

Performance

Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	4" x 4" 100 x 100 mm
Flow, Max	1,700 USgpm 390 m ³ /h 110 l/s
Head, Max	150 feet 50 meters
Flow at BEP	800 USgpm 180 m ³ /h 50 l/s
Efficiency at BEP	63%
Solids Handling, Max	3.0" 76 mm
Operating Speed, Max	2000 rpm
Suction Connection	4" (100 mm) 150 ANSI Flanges
Delivery Connection	4" (100 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

Applications

Construction	Waste Water
Industrial	Power Generation
Mining	Environmental

High flow, solids handling heavy duty pump

The PP44S10 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering outstanding suction lift. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Single Row Ball
Shaft	17-4 PH Stainless Steel

Construction Materials

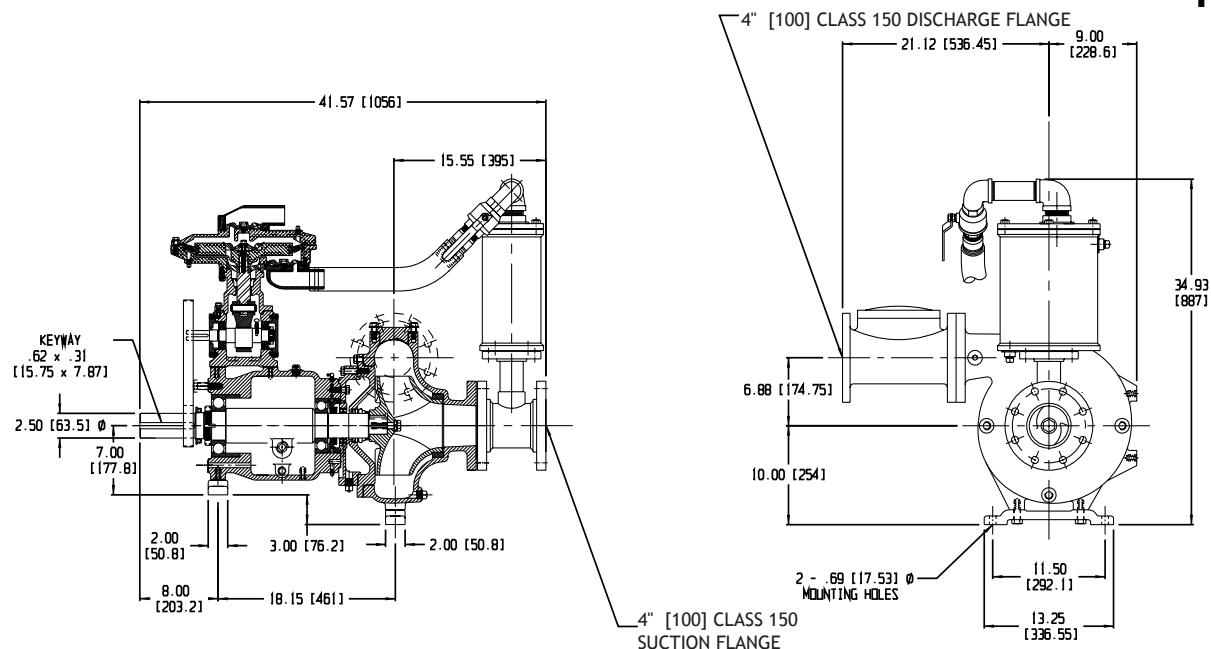
	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

Mechanical Dimensions



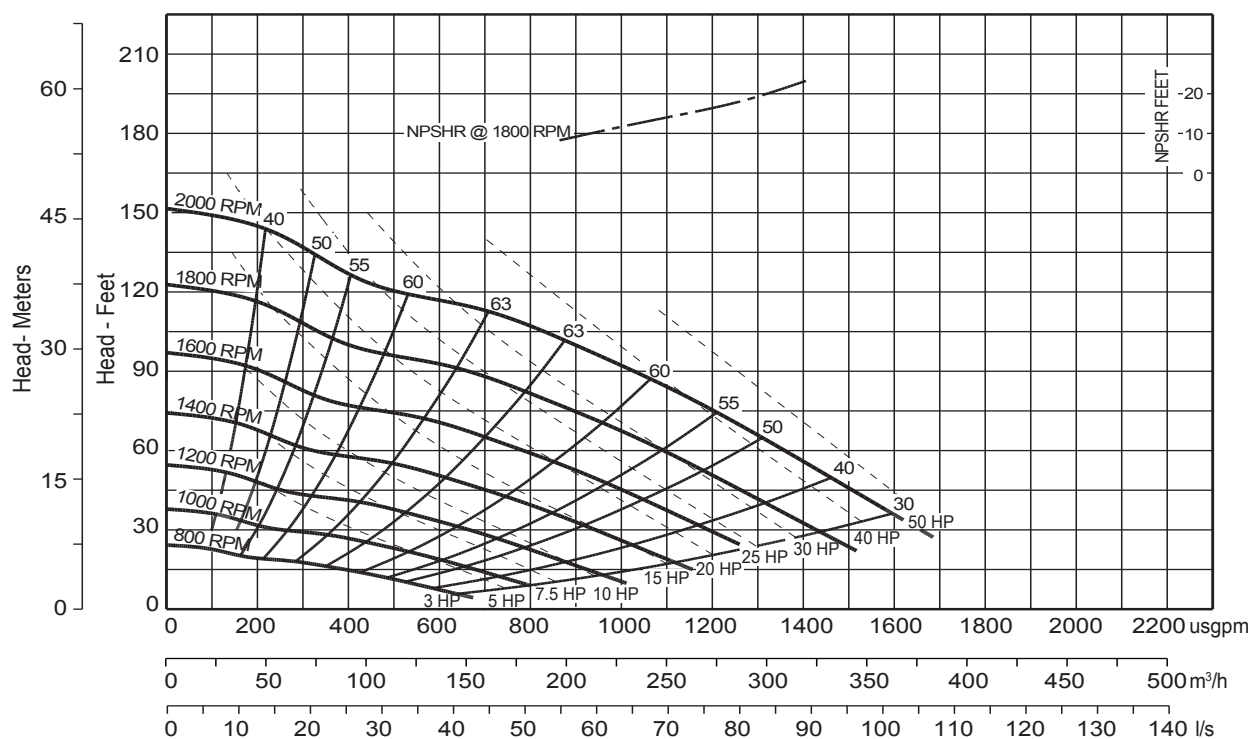
Typical Pump Configuration

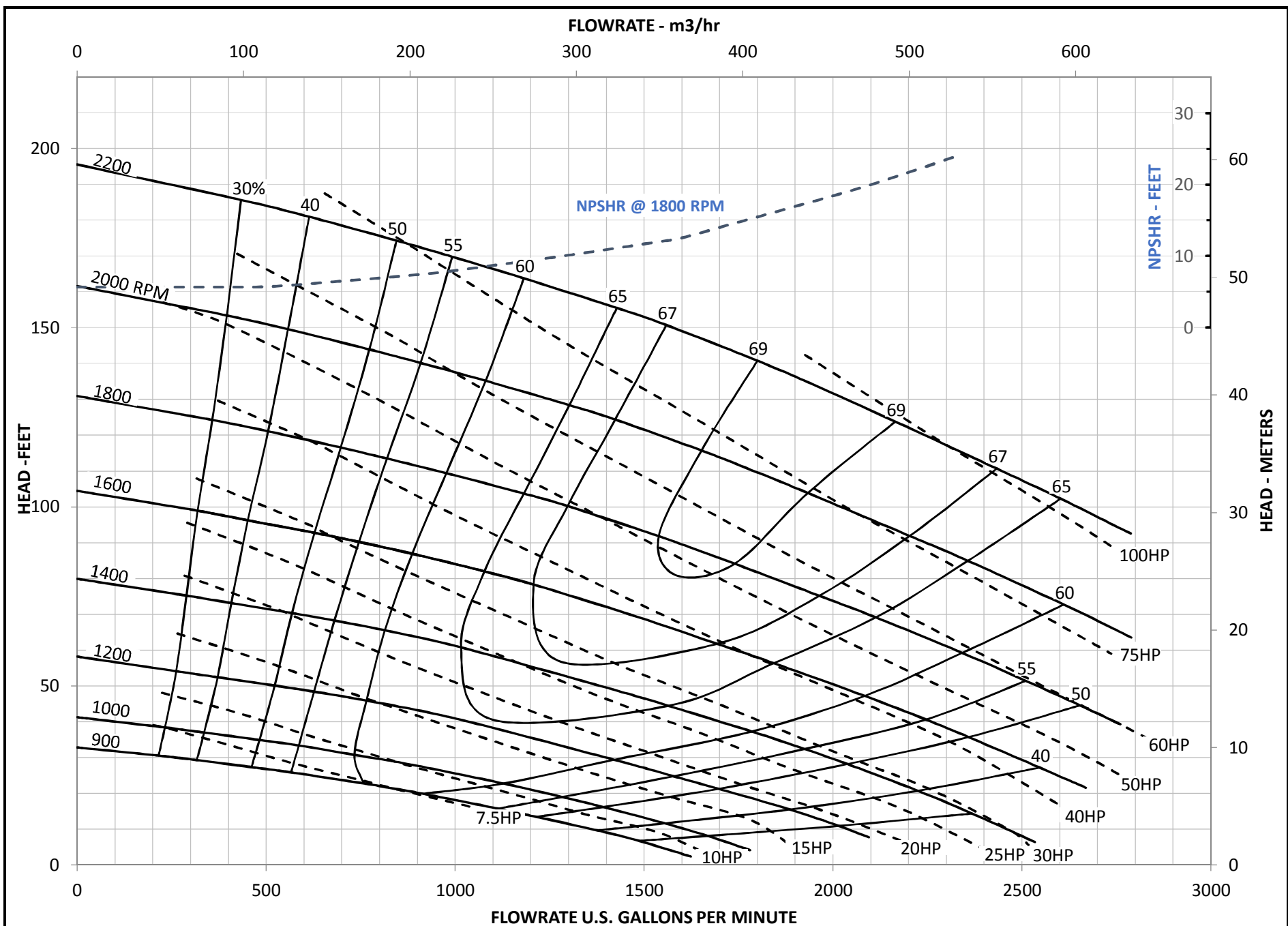
PP44S10



Performance Curve

Model: PP44S10	Impeller Dia: 10"	Speed: Variable	Solids Size: 3.0"	Curve #07903HQ
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MODEL:	PP66S12		SPECIFIC GRAVITY	1.0
SIZE:	6" x 6"	150mm x 150mm	DRWG NO.	PP66S12-VS-11
IMPELLER DIAM:	11.00"	279mm	REVISION	000
SOLIDS HANDLING SIZE:	3"	75mm	DATE	7 June, 2017



Pioneer Prime

PP66S12L71



Typical Pump Configuration

Performance

Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	6" x 6" 150 x 150 mm
Flow, Max	3,700 USgpm 840 m ³ /h 230 l/s
Head, Max	270 feet 80 meters
Flow at BEP	2,200 USgpm 510 m ³ /h 140 l/s
Efficiency at BEP	81%
Solids Handling, Max	3.0" 76 mm
Operating Speed, Max	2200 rpm
Suction Connection	6" (150 mm) 150 ANSI Flanges
Delivery Connection	6" (150 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

Applications

Construction	Waste Water
Industrial	Power Generation
Mining	Environmental

High flow, solids handling heavy duty pump

The PP66S12 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering outstanding suction lift. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Single Row Ball
Shaft	17-4 PH Stainless Steel

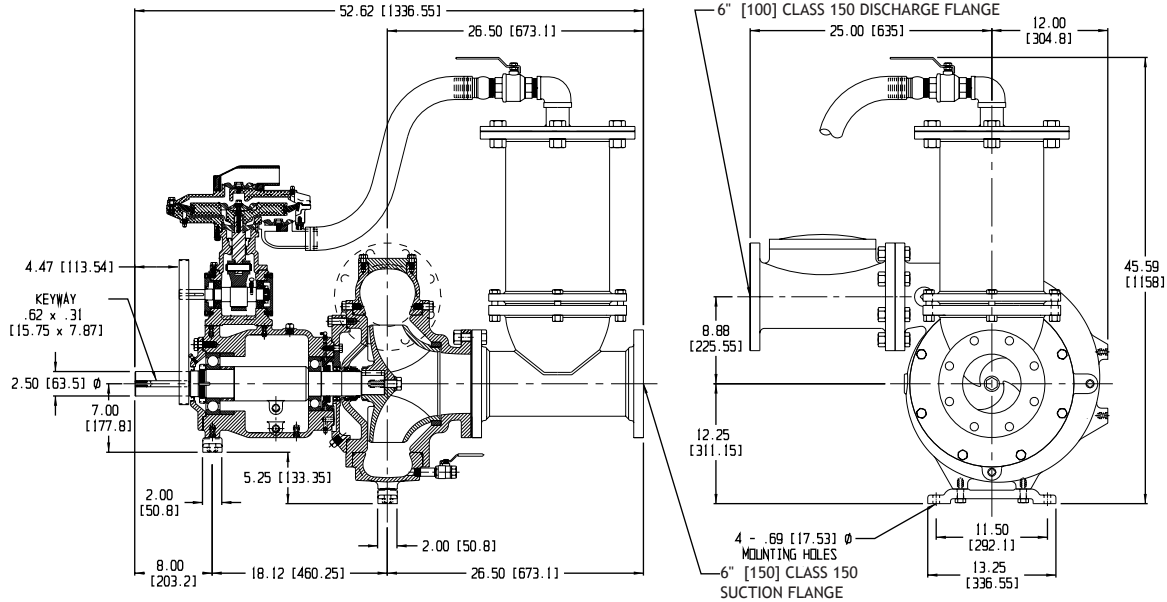
Construction Materials

	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

Mechanical Dimensions

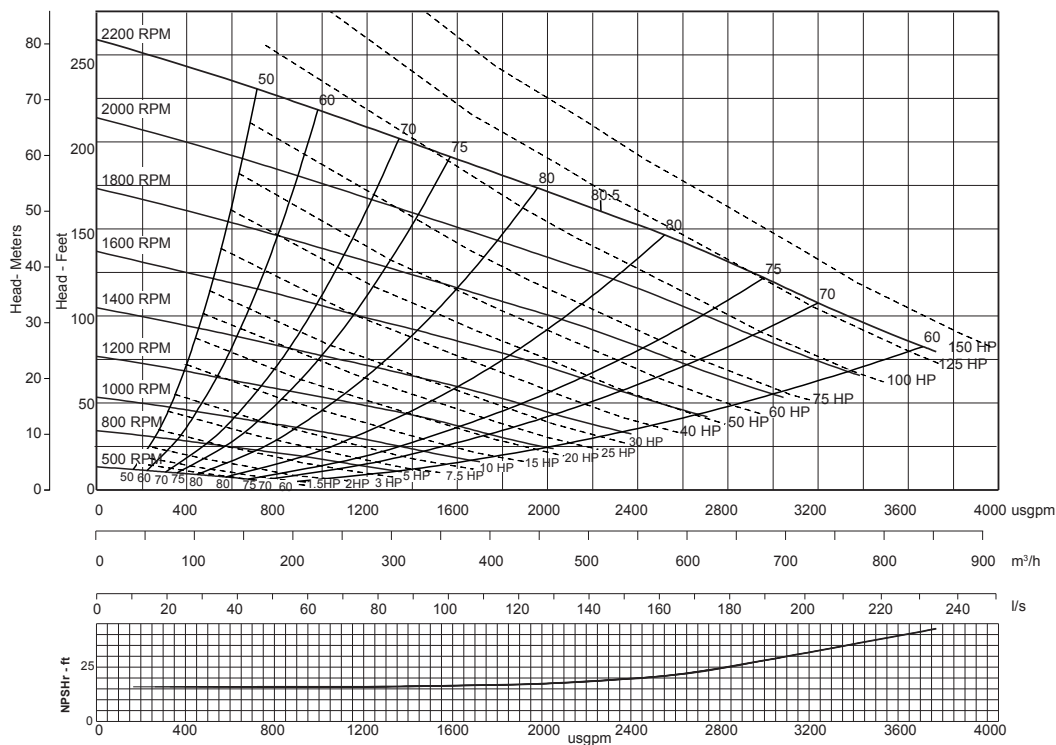
Typical Pump Configuration

PP66S12



Performance Curve

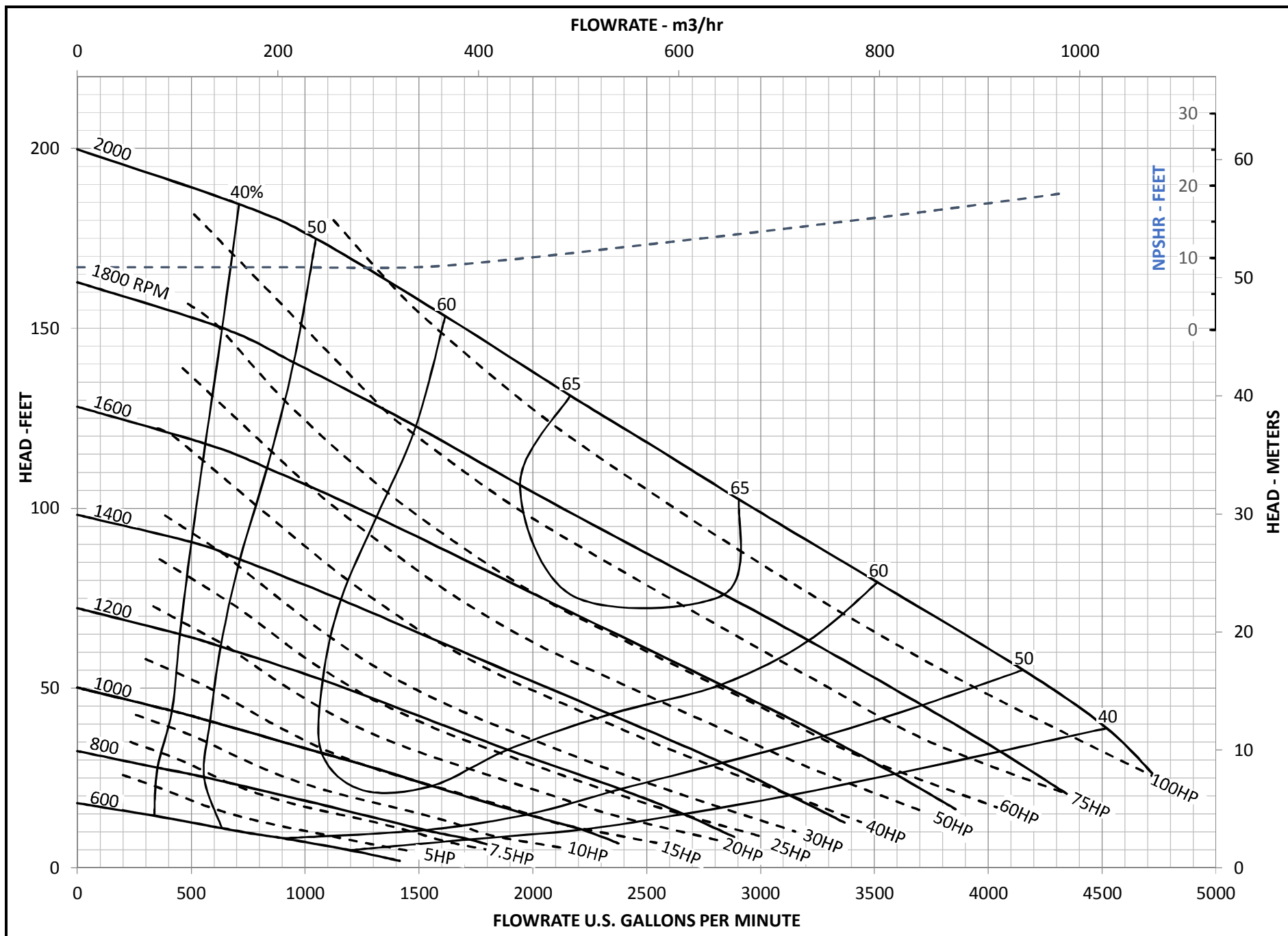
Model: PP66S12	Impeller Dia: 12"	Speed: Variable	Solids Size: 3.0"	Curve #A5856HQ
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Note: Losses from priming system not shown

Corporate +1 (503) 266-4115 ■ EMEA +44 (0)1449 736777 ■ South Africa +27 (0) 118240085 ■ Australia +61 3 9988 1650

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MODEL:	PP88S12		SPECIFIC GRAVITY	1.0
SIZE:	8" x 8"	200mm x 200mm	DRWG NO.	A5895HQ
TRIM	12.25"	311mm	REVISION	001
SOLIDS HANDLING SIZE:	3.0"	75 mm	DATE	30 Jun 2017



Pioneer Prime

PP88S12L71



Typical Pump Configuration

Performance

Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	8" x 8" 200 x 200 mm
Flow, Max	4,500 USgpm 1040 m³/h 280 l/s
Head, Max	200 feet 60 meters
Flow at BEP	2,600 USgpm 600 m³/h 160 l/s
Efficiency at BEP	70%
Solids Handling, Max	3.0" 76 mm
Operating Speed, Max	2000 rpm
Suction Connection	8" (200 mm) 150 ANSI Flanges
Delivery Connection	8" (200 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

Applications

Construction	Waste Water
Industrial	Power Generation
Mining	Environmental

High flow, solids handling heavy duty pump

The PP88S12 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering outstanding suction lift. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Single Row Ball
Shaft	17-4 PH Stainless Steel

Construction Materials

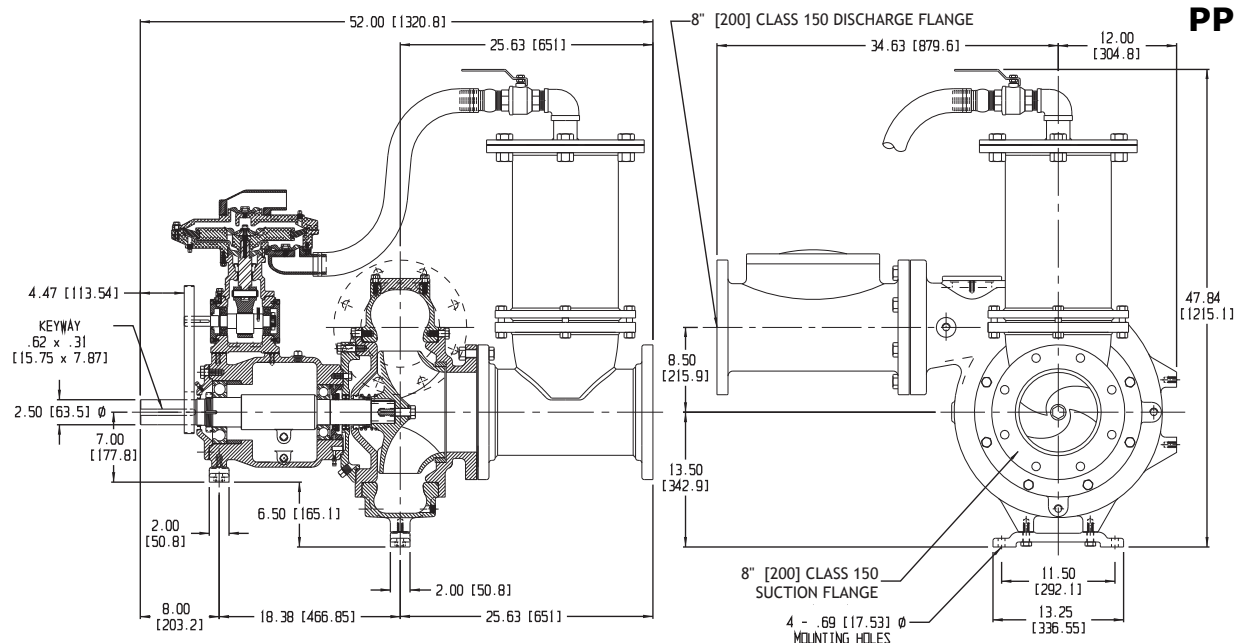
	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

Mechanical Dimensions



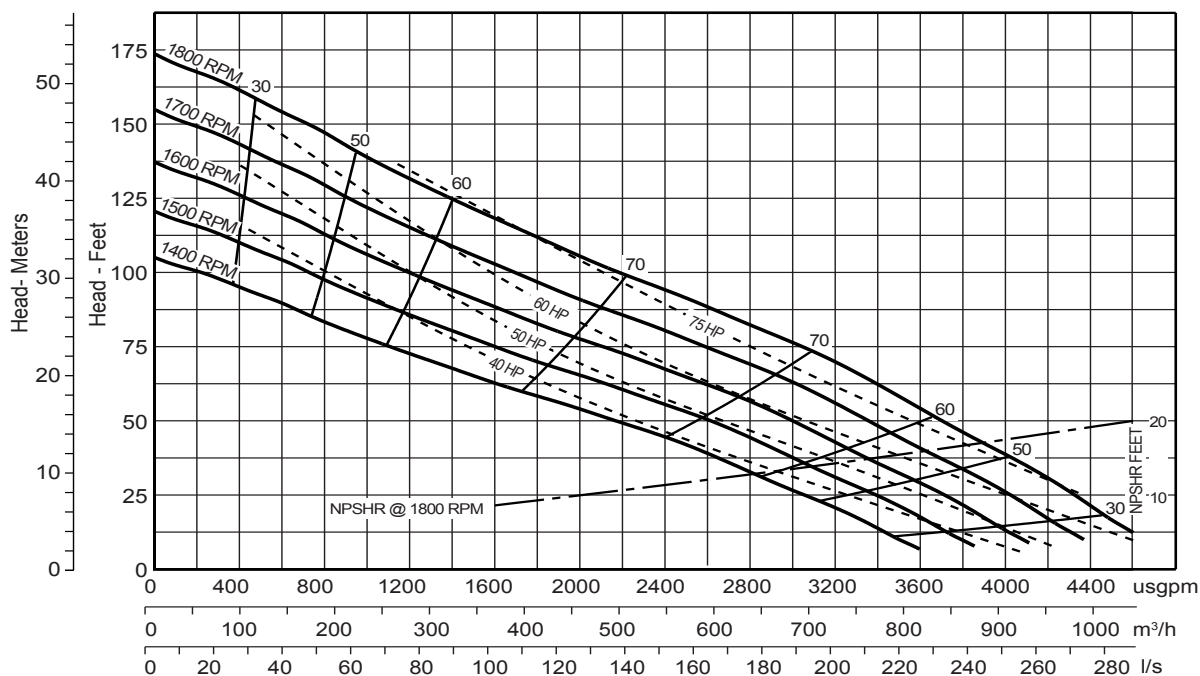
Typical Pump Configuration

PP88S12



Performance Curve

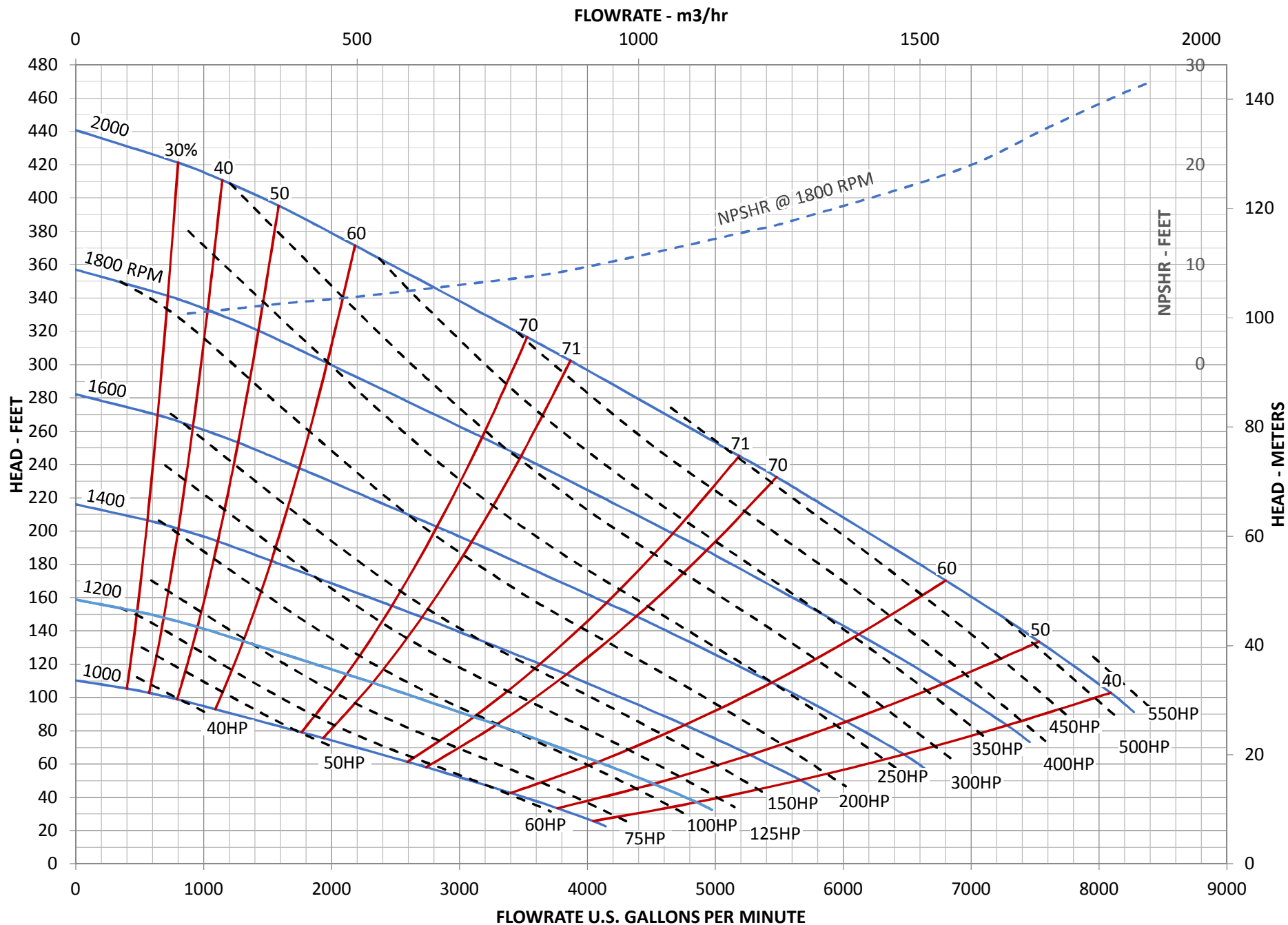
Model: PP88S12	Impeller Dia: 12.25"	Speed: Variable	Solids Size: 3.0"	Curve #A4631HQ
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Note: Losses from priming system not shown

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MODEL: PP108S17

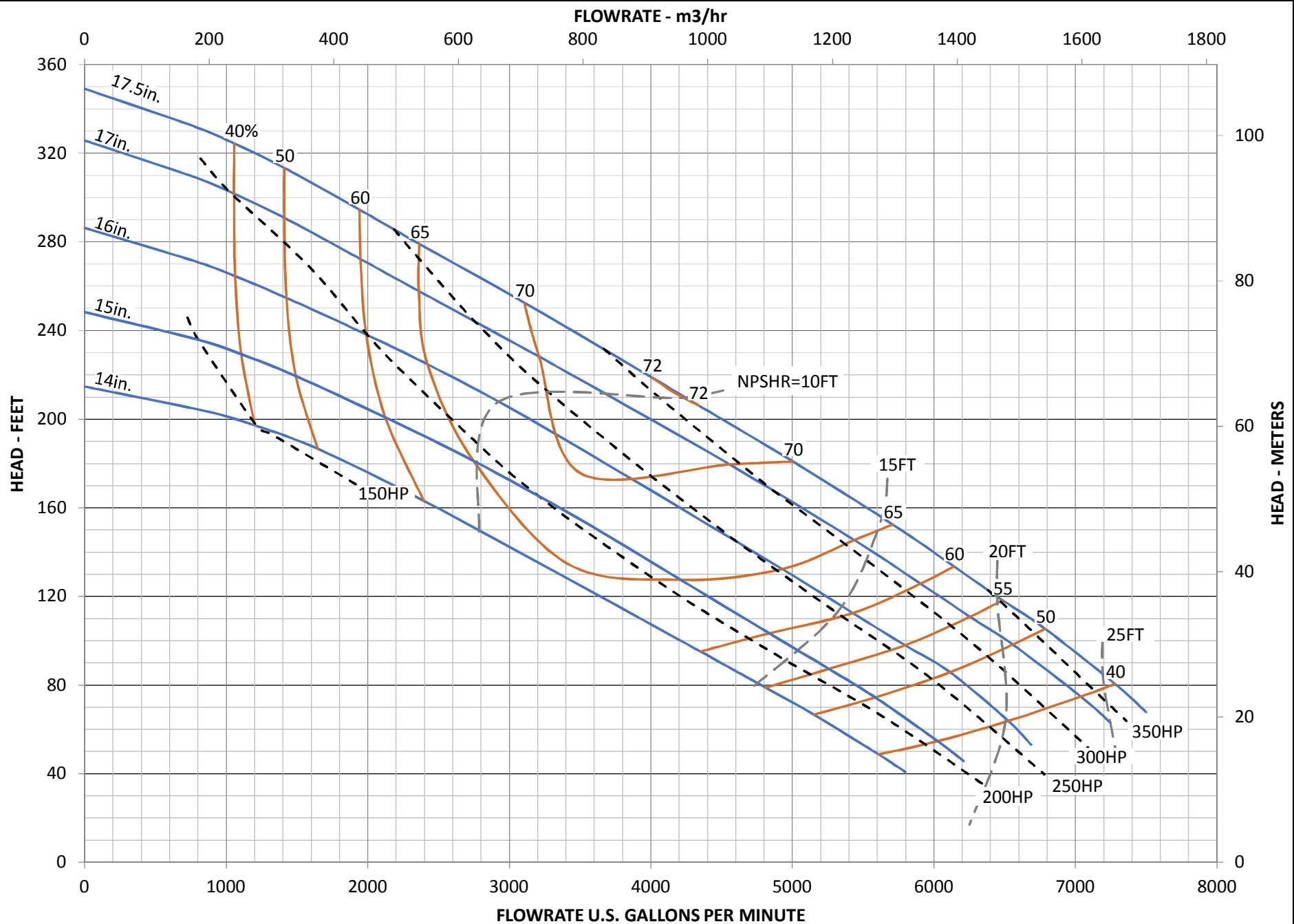
SUCTION SIZE: 10"
DISCHARGE SIZE: 8"

IMPELLER DIA: 17.5"

SOLIDS DIA: 3.5"

TEST# 163
TEST DATE: 5/26/10
SPECIFIC GRAVITY 1.00

IMPELLER: 11204300
CURVE: P108S-17.5
REVISION 000
DATE 2/25/2017



MODEL: PP108S17	SUCTION SIZE: 10"	TEST# 163	IMPELLER: 11204300
	DISCHARGE SIZE: 8"	TEST DATE: 5/26/10	CURVE: PP108S-VT-1780
SPEED: 1780 RPM	SOLIDS DIA: 3.5"	SPECIFIC GRAVITY 1.00	REVISION 000
			DATE 2/25/2017



Pioneer Prime

PP108S17L71



Typical Pump Configuration

Performance

Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	10" x 8" 250 x 200 mm
Flow, Max	7,600 USgpm 1750 m ³ /h 480 l/s
Head, Max	450 feet 140 meters
Flow at BEP	4,600 USgpm 1060 m ³ /h 290 l/s
Efficiency at BEP	80%
Solids Handling, Max	3.5" 89 mm
Operating Speed, Max	2000 rpm
Suction Connection	10" (250 mm) 150 ANSI Flanges
Delivery Connection	8" (200 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

Applications

Dirty water	Raw water pumps
Sewage bypass	Flood pumps
Silt returns	Mine dewatering
Cooling pumps	

High pressure, high flow, heavy duty solids handling pump

Designed to run over a broad range of performance while delivering outstanding suction lift, the PP108S17 is the solid choice. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Double Row Angular Contact
Shaft	17-4 PH Stainless Steel

Construction Materials

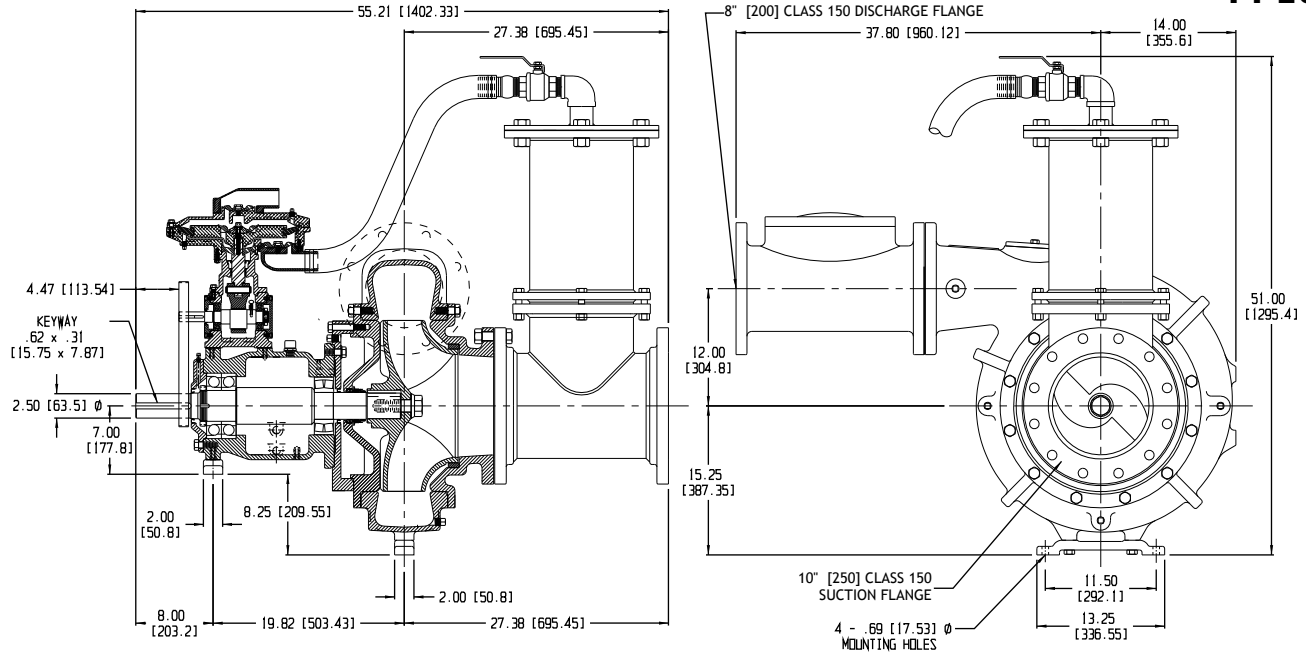
	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

Mechanical Dimensions



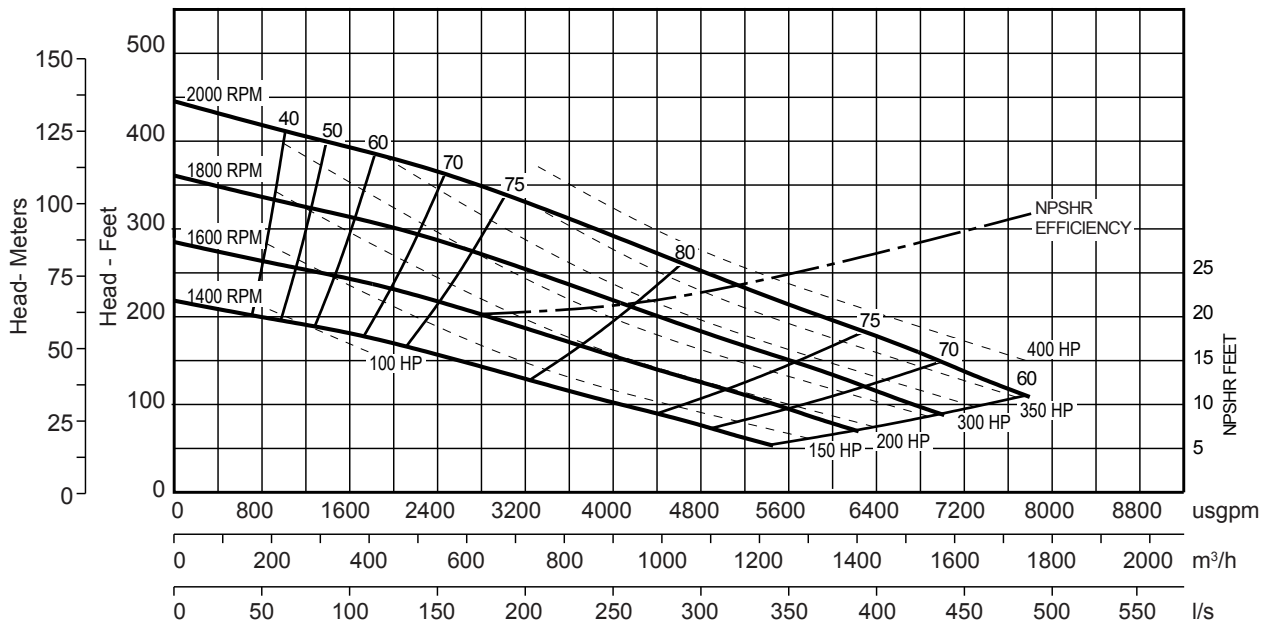
Typical Pump Configuration

PP108S17



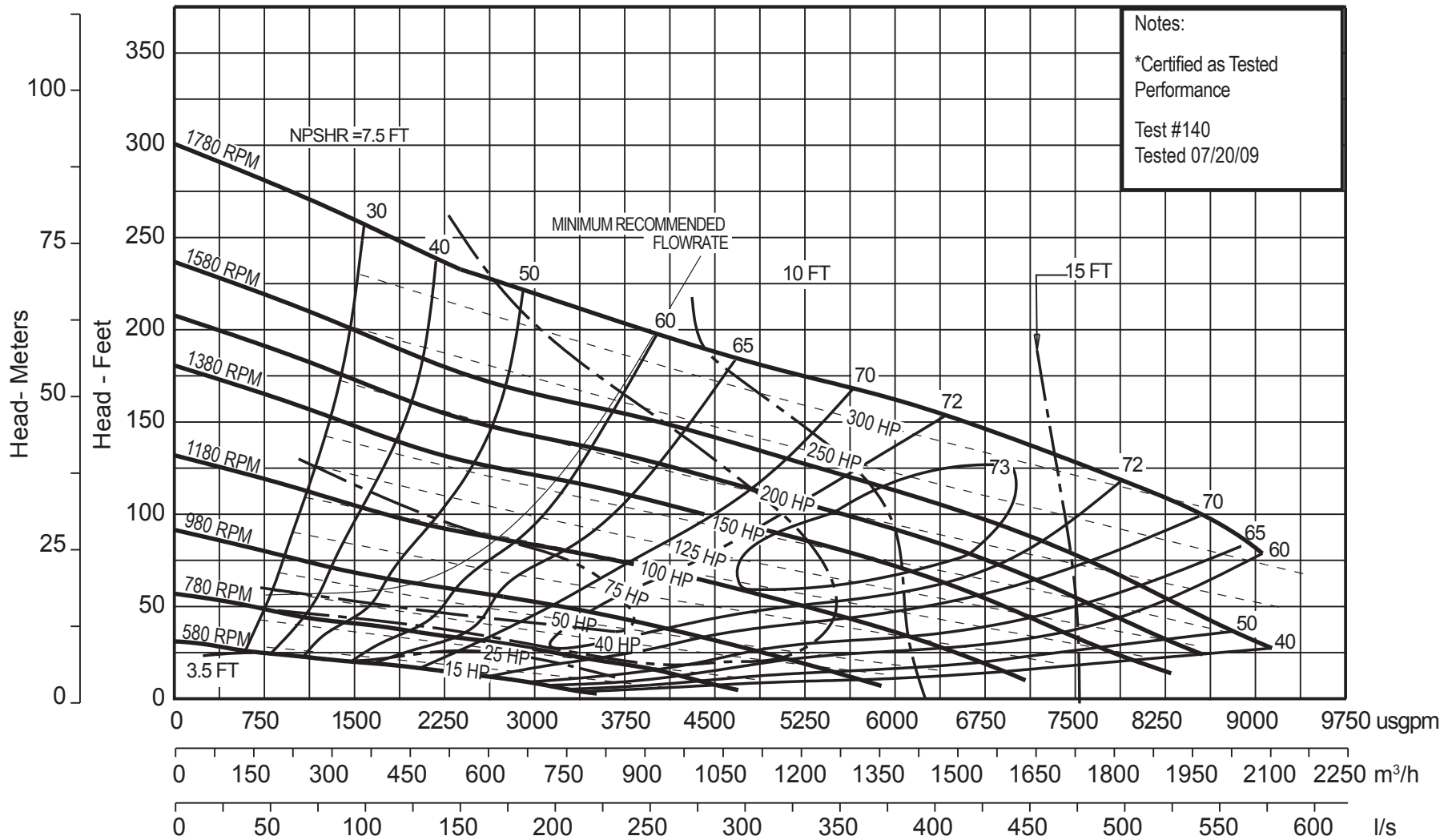
Performance Curve

Model: PP108S17	Impeller Dia: 17.5"	Speed: Variable	Solids Size: 3.5"	Curve #07997HQ
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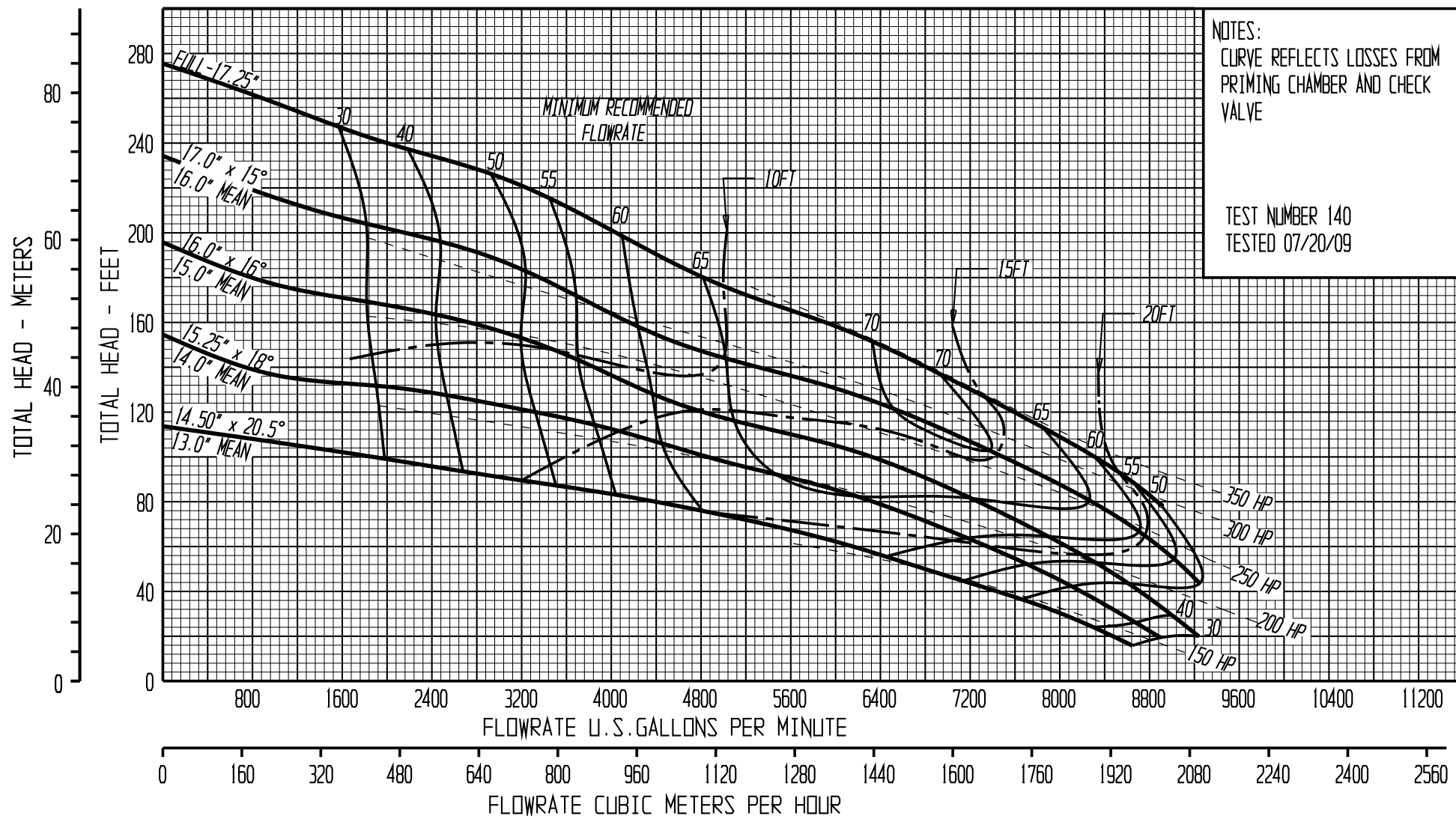
Note: Losses from priming system not shown

Note: Losses from priming system not shown



Model	PP1212S17	
Size	12" x 12"	300 mm x 300 mm
Impeller Diameter	17.25"	438 mm
Solids Handling Size	3.75"	95 mm

DWG No. 07815HQ
Revision 001
Drawn By DAP
Date 16 Sep 2010



PIONEER PUMP
 PERFORMANCE THROUGH INNOVATION™

MODEL : PP1212S17

SIZE : 12" x 12"

SPEED : 1780 RPM

SOLIDS SIZE : 3.75"

DWG NO. 08152HQ
 REVISION: 001
 DRAWN BY: DAP
 DATE: 08/10/2010

Pioneer Prime

PP1212S17L71



Typical Pump Configuration

Performance

Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	12" x 12" 300 x 300 mm
Flow, Max	9,000 USgpm 2070 m³/h 570 l/s
Head, Max	300 feet 90 meters
Flow at BEP	7,100 USgpm 1630 m³/h 450 l/s
Efficiency at BEP	72%
Solids Handling, Max	3.75" 95 mm
Operating Speed, Max	1800 rpm
Suction Connection	12" (300 mm) 150 ANSI Flanges
Delivery Connection	12" (300 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

Applications

Dirty water	Raw water pumps
Sewage bypass	Flood pumps
Silt returns	Mine dewatering
Cooling pumps	

High pressure, high flow, heavy duty solids handling pump

Designed to run over a broad range of performance while delivering outstanding suction lift, the PP1212S17 is the solid choice. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running	
Pump End Bearing	Roller Bearing	
Drive End Bearing	Double Row Angular Contact	
Shaft	17-4 PH Stainless Steel	

Construction Materials

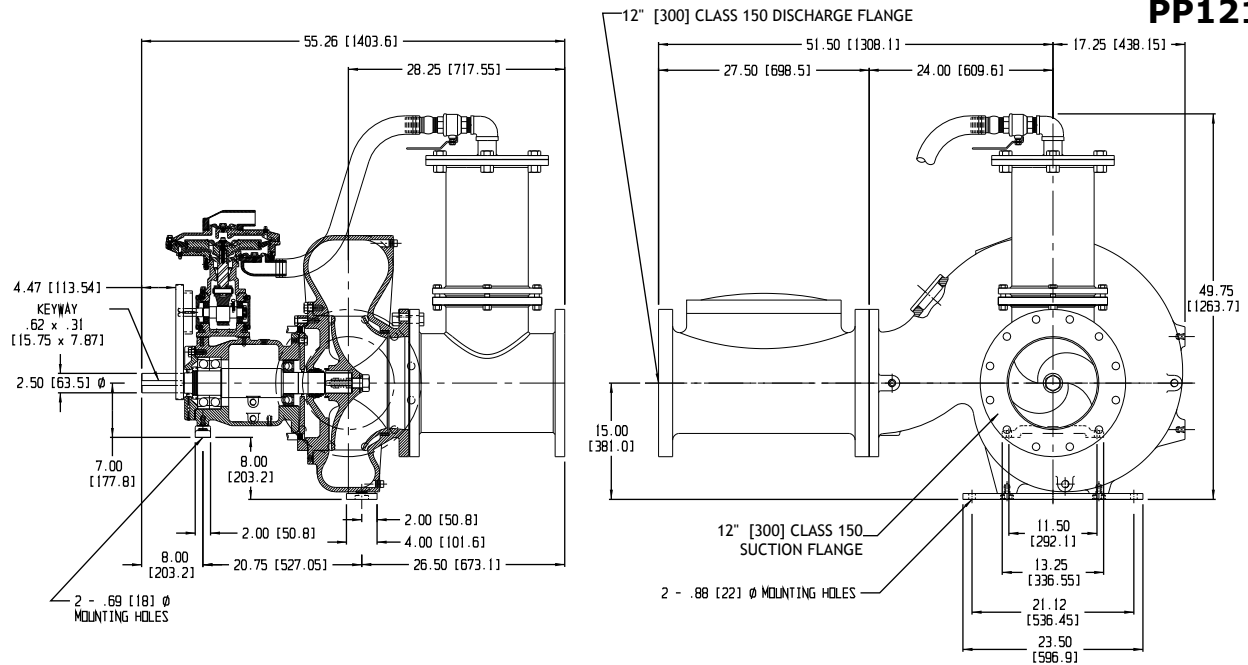
	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

Mechanical Dimensions



Typical Pump Configuration

PP1212S17



Performance Curve

Model: PP1212S17	Impeller Dia: 17.25"	Speed: Variable	Solids Size: 3.75"	Curve #07815HQ
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