

CORNELL PUMP COMPANY

HYDRAULIC SUBS



HYDRAULIC SUBMERSIBLES

ABOUT OUR HYDRAULIC SUBMERIBLES

Cornell Pump Company's Hydraulic Submersible Pumps have emerged as a versatile and indispensable solution across various markets, offering robust performance, reliability, and efficiency. Let's delve deeper into how these exceptional pumps excel in multiple applications:

General Agriculture, Industrial, and Municipal Applications: In the realms of agriculture, industry, and municipal services, water management is paramount. Cornell's Hydraulic Submersible Pumps play a crucial role in irrigation, drainage, and fluid transfer tasks. These pumps are designed to handle solids-laden water, ensuring efficient water distribution in farms, factories, and municipalities. Their ability to handle varying conditions and demands makes them a go-to choice for maintaining optimal operations.

Rental Applications: Hydraulic submersibles are a rental company's best friend. Their versatility, ease of deployment, and reliability make them a sought-after choice for rental fleets. Whether supporting construction projects, dealing with emergency flooding, or addressing temporary pumping needs, these pumps can be swiftly deployed and put to work with minimal hassle.

Mining Applications: The mining industry operates in some of the most demanding environments, dealing with abrasive slurries and challenging conditions. Cornell's Hydraulic Submersibles shine in this context, offering effective dewatering solutions for mines and quarries. Their rugged construction and ability to handle high solids concentrations make them indispensable for mine shaft dewatering, tailings pond management, and slurry transfer.

Flood Control Applications: Natural disasters and heavy rainfall can lead to devastating floods. Here, speed is of the essence. Cornell's Hydraulic Submersibles offer rapid deployment and efficient water removal, making them a vital tool in flood control scenarios. Whether it's safeguarding communities, preventing infrastructure damage, or mitigating emergencies, these pumps play a pivotal role.

Construction / Dewatering Applications: Construction sites often face the challenge of excessive groundwater, which can halt progress and compromise safety. Cornell's Hydraulic Submersibles come to the rescue, efficiently dewatering excavation sites, tunnels, and foundation pits. Their durable design and features like variable speed control ensure effective water removal, enabling construction projects to stay on track.

STANDARD SPECIFICATIONS

- Models Available - 4NNT, 6NNT, 8NNT, etc.
- Discharge Sizes Available - 4 to 8 inch
- Standard Construction - Cast Iron, Class 30
- Optional Construction - 316SS, CD4MCU, Ductile Iron
- Permco hydraulic drive

FEATURES BENEFITS

- Various adaptor plates available for hydraulic motor fit
- Heavy duty shaft / bearing frame assembly
- Heavy duty "wet end" construction
- Manufactured in the United States

PERFORMANCE CHARACTERISTICS

- Premium Hydraulic Efficiencies, 76 to 80% BEP
- 3 inch or larger solid handling capability
- Total Dynamic Head: 50 to 360 feet
- Capacity: 200 to 7000 GPM

TYPICAL MARKETS

- General Agriculture, Industrial and Municipal Applications
- Rental Applications
- Mining Applications
- Flood Control Applications
- Construction / Dewatering Applications



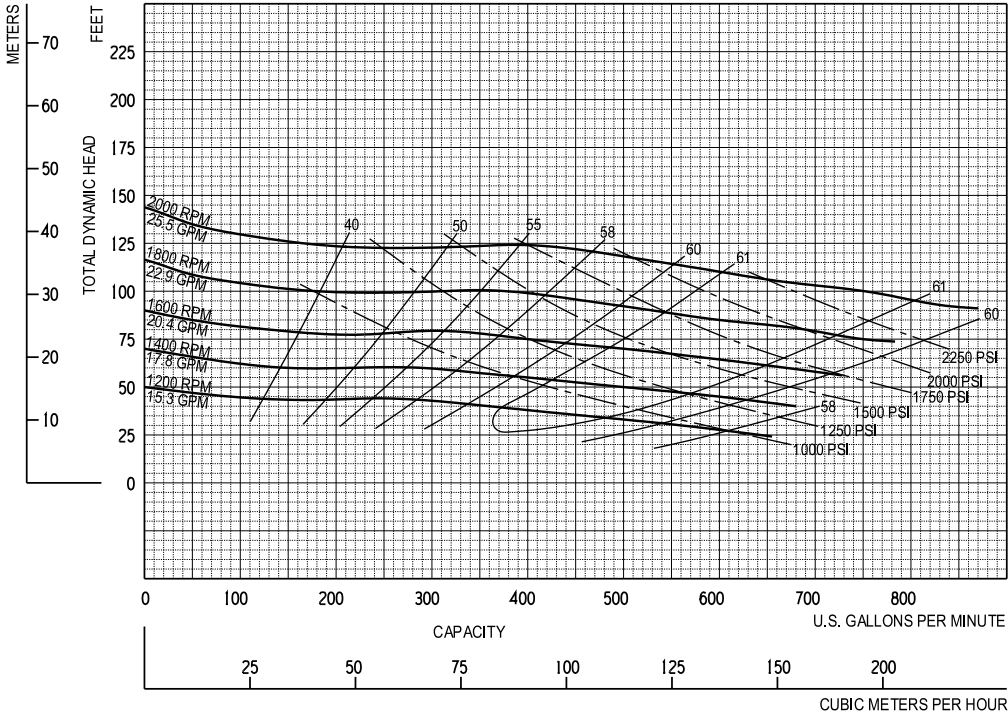
HYDRAULIC SUBMERSIBLES

4NNDH - HS16 VARIABLE SPEED

Speed	Impeller Dia.	Style	Solids Dia.	N _S	Suction	Discharge	No. vanes
VARIOUS	10.09"	SEMI-OPEN	3"	1600	4"	4"	2

Feet x .305 = Meters
 Inches x 25.4 = Millimeters
 GPM x .227 = Cubic Meters/Hour
 GPM x 3.785 = Liters/Minute
 HP x .746 = KW

SINGLE VOLUTE



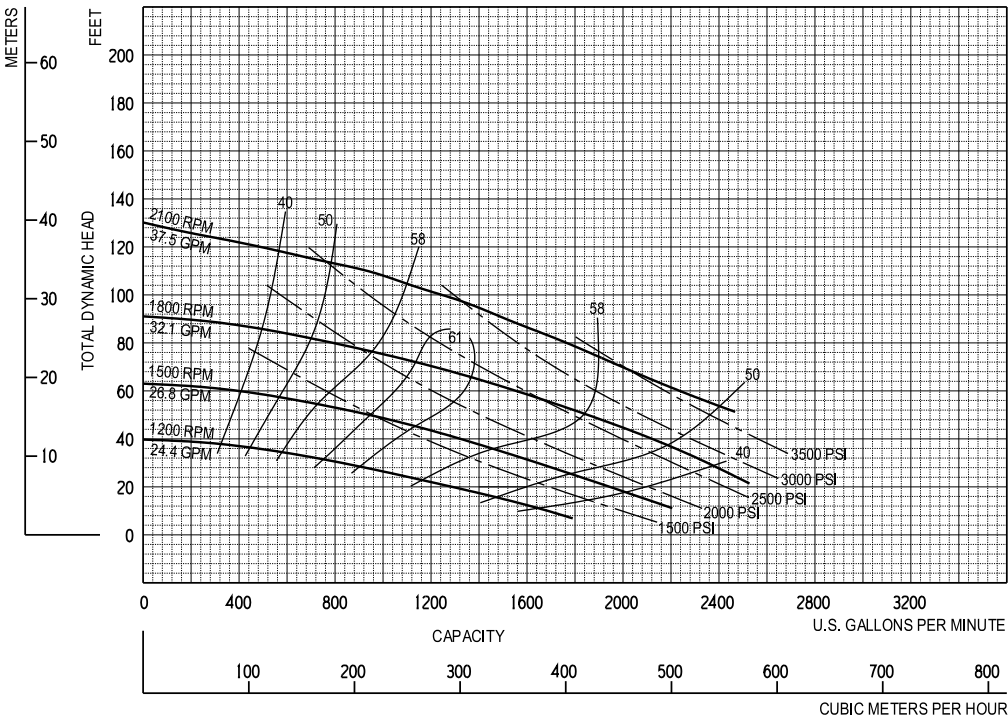
4/27/11

6NNDH - HS16 VARIABLE SPEED

Speed	Impeller Dia.	Style	Solids Dia.	N _S	Suction	Discharge	No. vanes
VARIOUS	10.09"	SEMI-OPEN	3"	2680	6"	6"	2

Feet x .305 = Meters
 Inches x 25.4 = Millimeters
 GPM x .227 = Cubic Meters/Hour
 GPM x 3.785 = Liters/Minute
 HP x .746 = KW

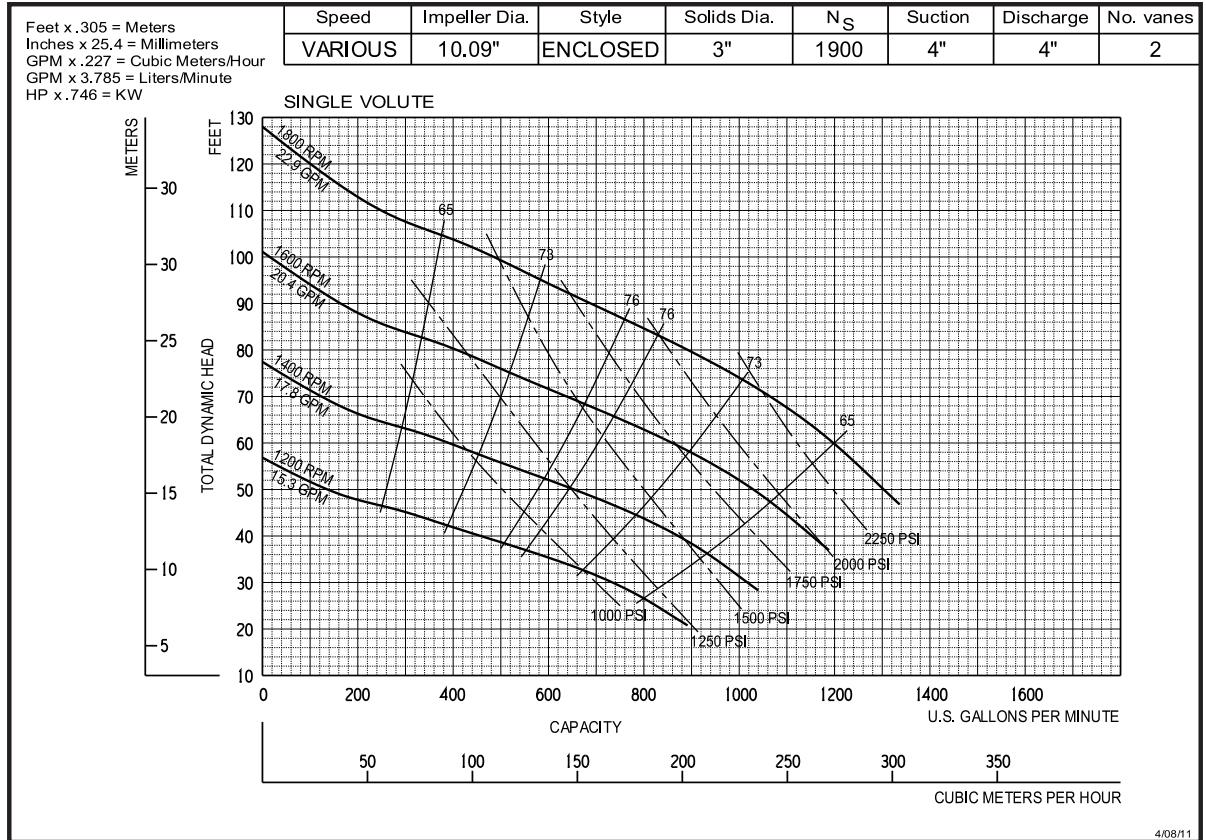
SINGLE VOLUTE



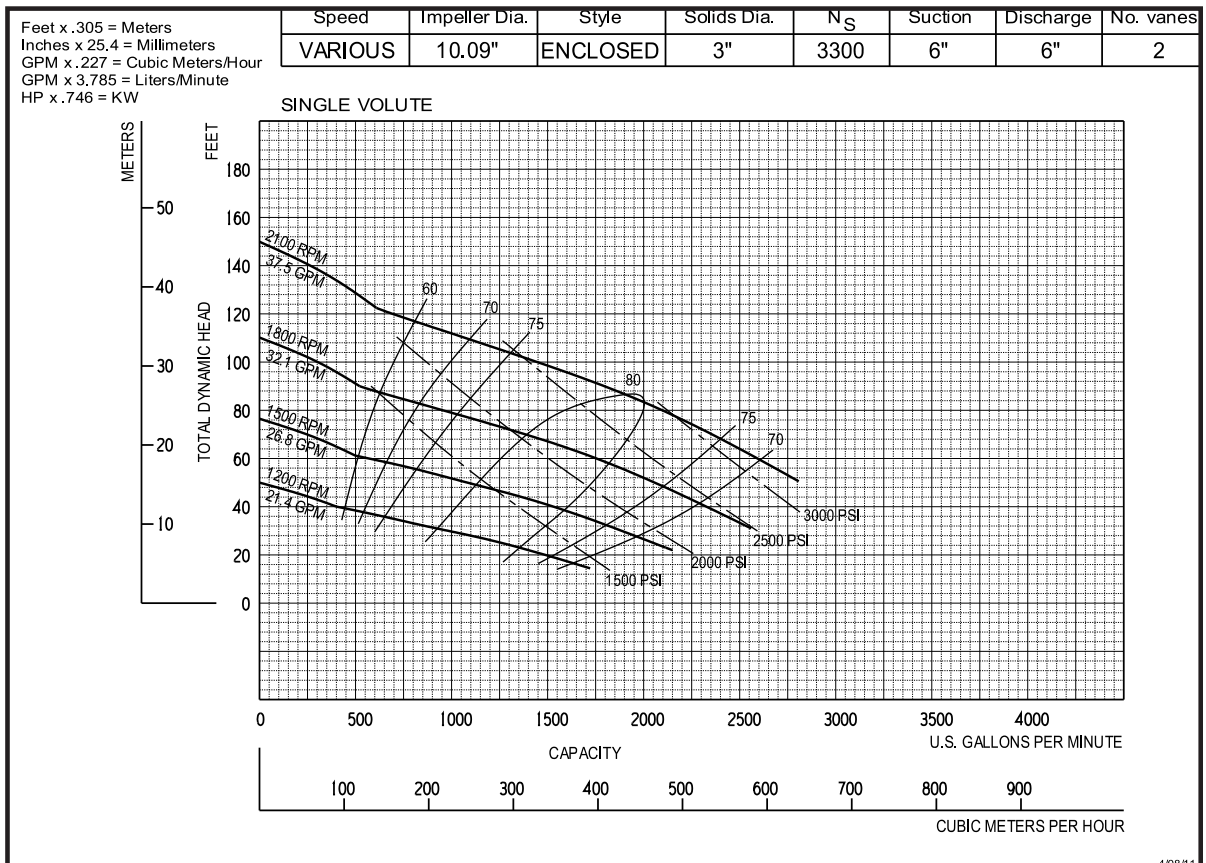
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HYDRAULIC SUBMERSIBLES

4NNT - HS16 VARIABLE SPEED

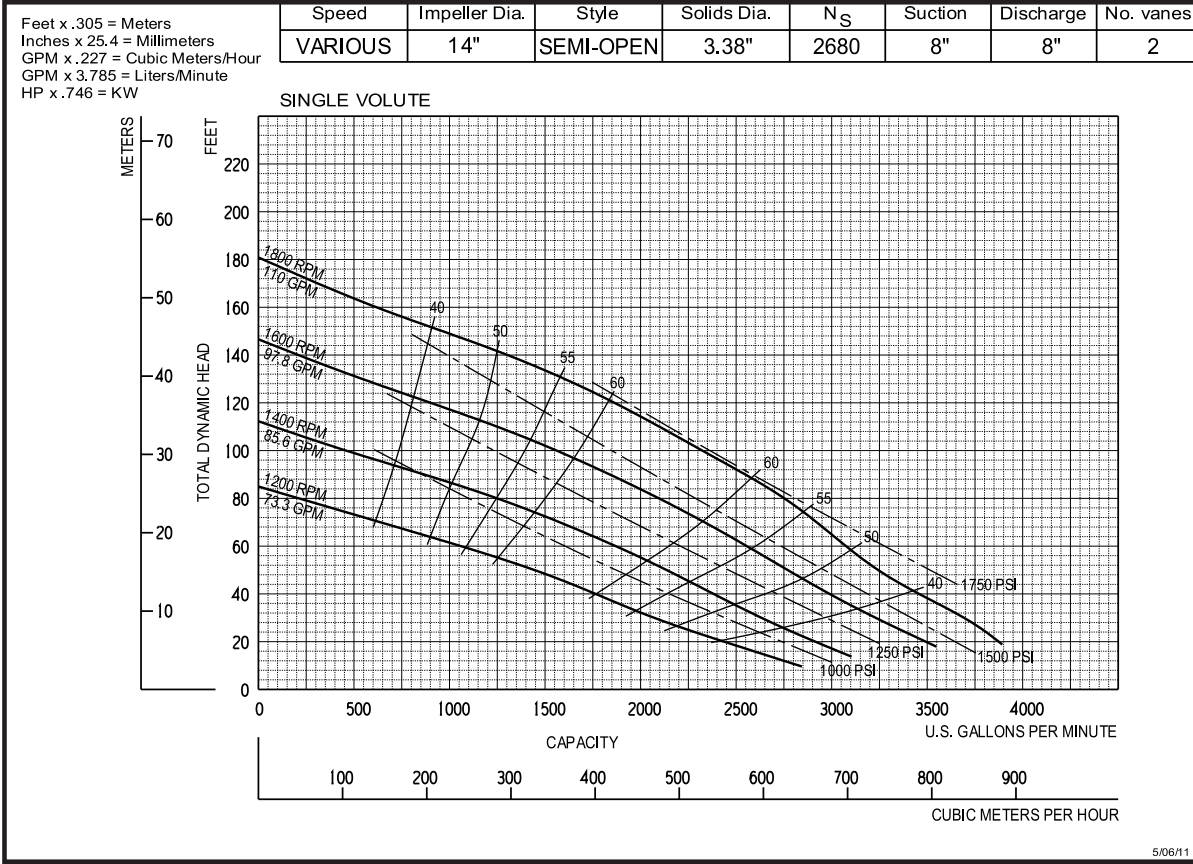


6NNT - HS16 VARIABLE SPEED

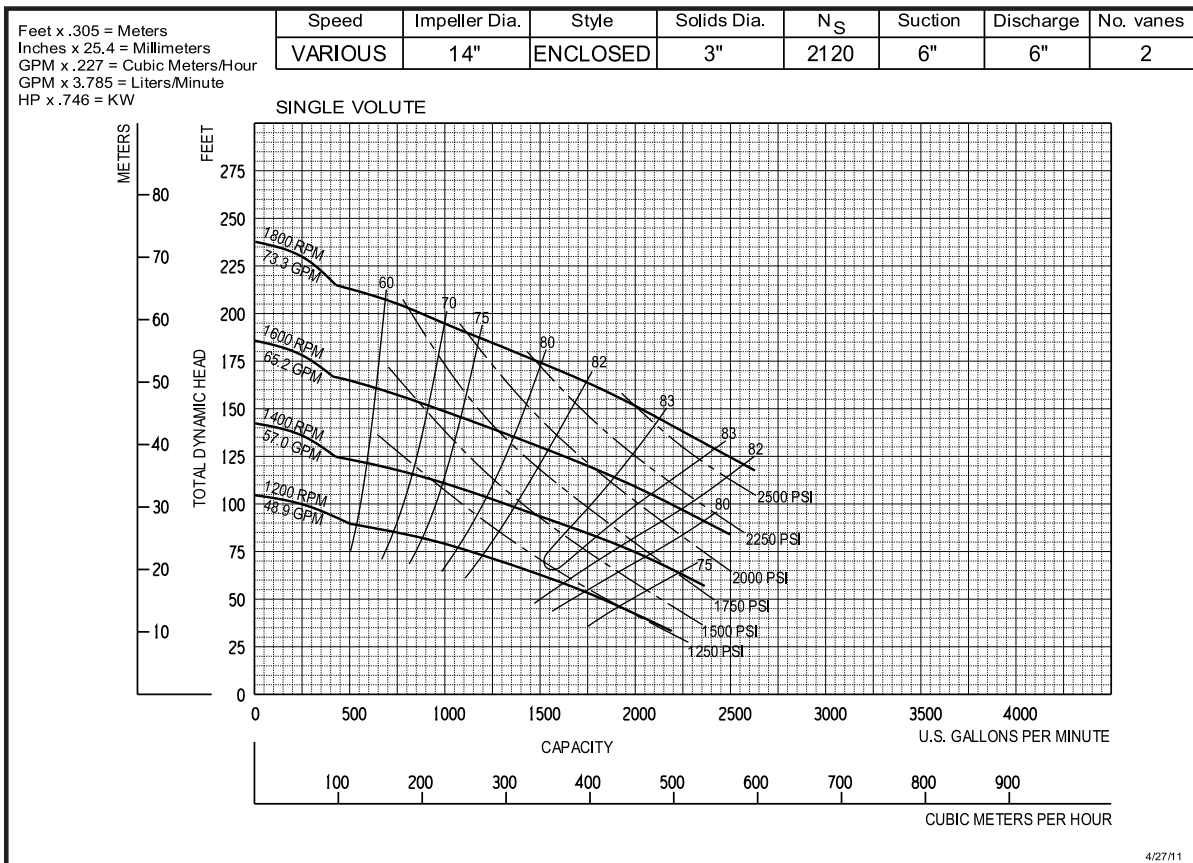


HYDRAULIC SUBMERSIBLES

8NNDH - HS18DB VARIABLE SPEED

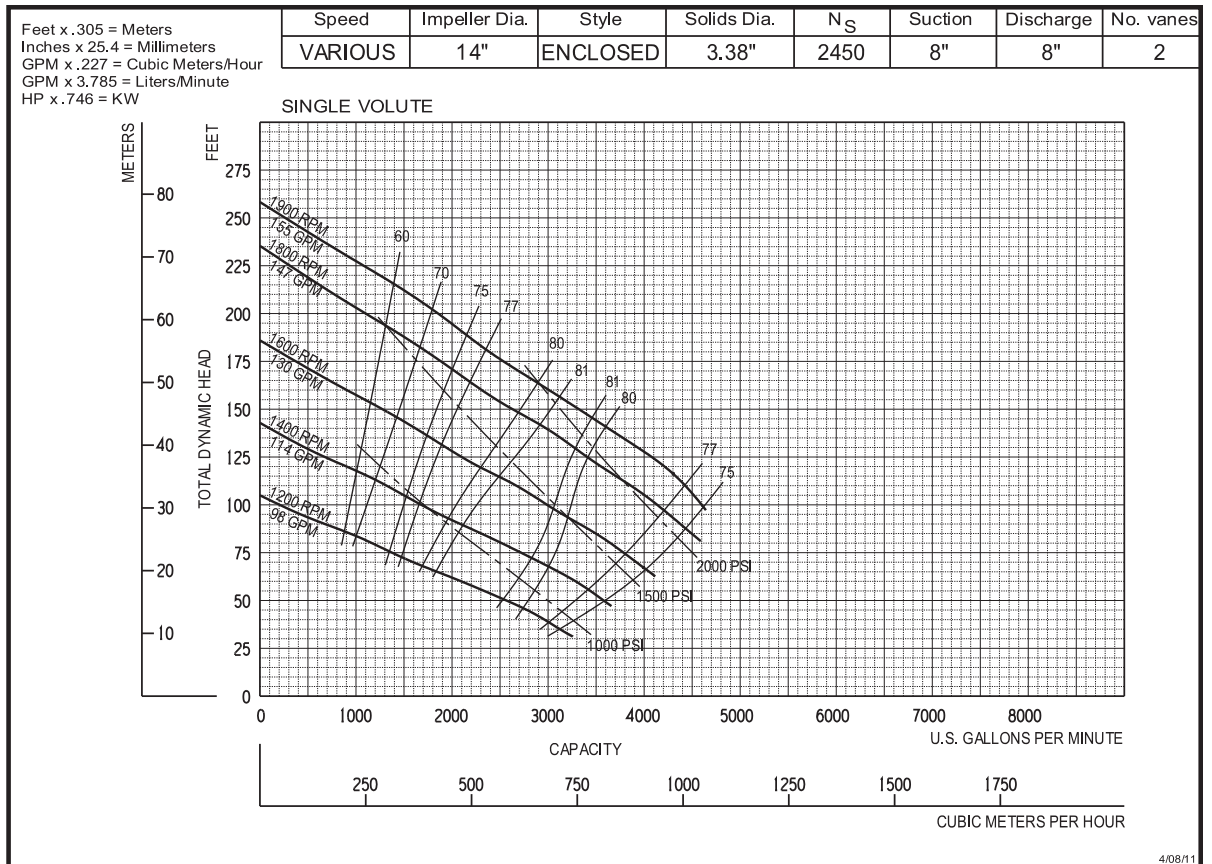


6NHTA - HS18DB VARIABLE SPEED

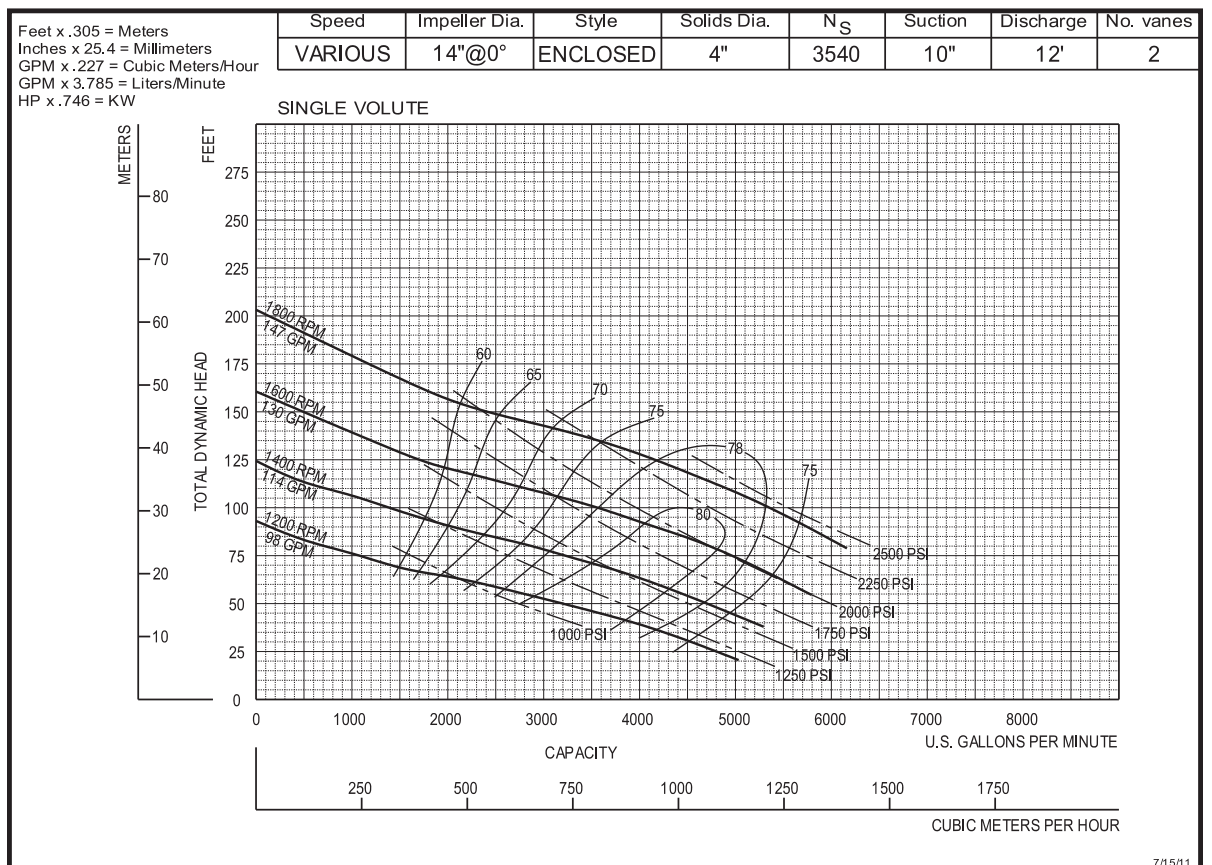


HYDRAULIC SUBMERSIBLES

8NNT - HS18DB VARIABLE SPEED

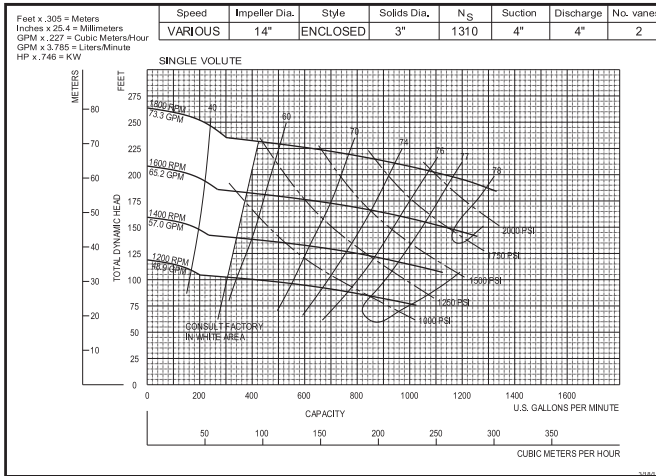


12NNT - HS18DB VARIABLE SPEED

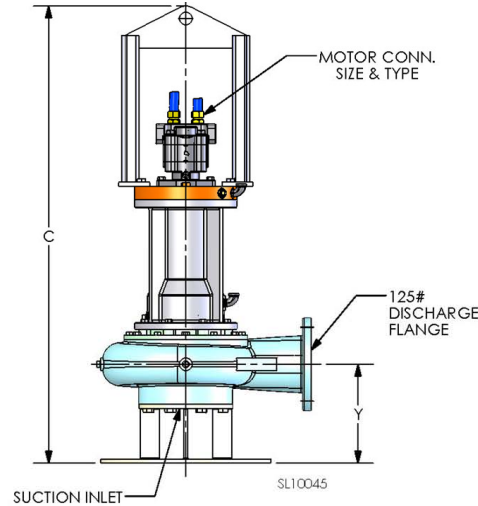
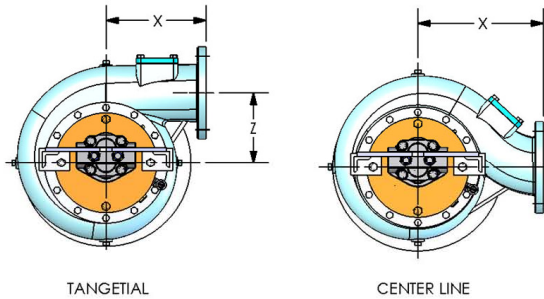
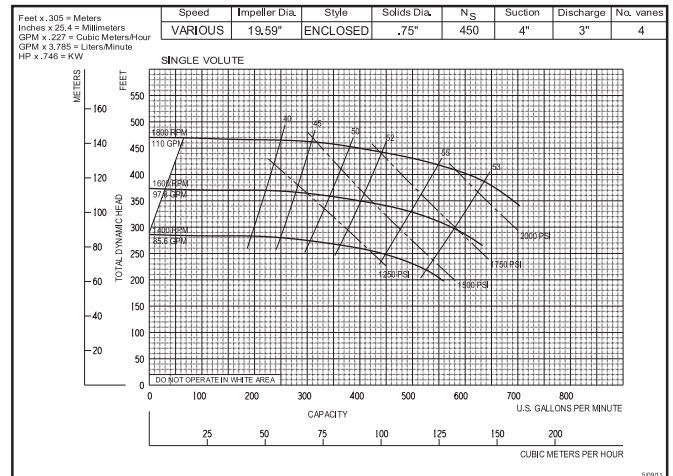


HYDRAULIC SUBMERSIBLES

4414T - HS18DB VARIABLE SPEED



3419MX - HS18DB VARIABLE SPEED



NOTES:

1. Do not use for construction unless certified.

PUMP DIMENSIONS										
MODEL	FRAME	CONNECTION		C	X	Y	Z	MOTOR	MOTOR CONN. SIZE & TYPE	WT (LB)
		DISCH.	SUCT.							
3419MX	HS18DB	3	4	57.56	13	12.88	10.25	M7600-30	1.5" SPLIT FLANGE CODE 61	1070
4NNT	HS16	4	4	50.5	12.56	9.25	-	M197-12	1" SAE - O-RING	520
4NNDH	HS16	4	4	50.5	12.56	9.25	-	M197-12	1" SAE - O-RING	520
4414T	HS18DB	4	4	54.81	14.5	9.75	-	M7600-20	1.25" SPLIT FLANGE CODE 61	820
6NNT	HS16	6	6	54.5	14.75	11.75	-	M197-17	1" SAE - O-RING	600
6NNDH	HS16	6	6	54.5	14.75	11.75	-	M197-17	1" SAE - O-RING	600
6NHTA	HS18DB	6	6	57.5	18.56	12	-	M7600-20	1.25" SPLIT FLANGE CODE 61	900
8NNT	HS18DB	8	8	59.25	18.5	13.88	-	M7600-20-20	1.5" SPLIT FLANGE CODE 61	1090
8NNDH	HS18DB	8	8	59.25	18.5	13.88	-	M7600-30	1.5" SPLIT FLANGE CODE 61	1090
12NNT	HS18DB	12	10	65.56	21	19.81	-	M7600-20-20	1.5" SPLIT FLANGE CODE 61	1570

CORNELL'S HYDRAULIC SUBMERSIBLE PUMPS EXCLUSIVELY FEATURE: PERMCO MOTORS

FEATURES:

- Heavy duty sleeve bushing design in a medium / small frame
- Working pressure up to 4000 PSI
- Speeds up to 2400 RPM

- Flows up to 150 GPM
- Doweled and high strength cast iron construction
- 100% factory tested
- High strength alloy steel gear and shaft sets
- Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges





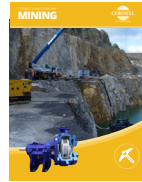
AGRICULTURE



FOOD PROCESS



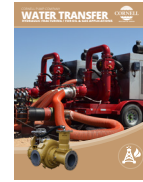
INDUSTRIAL



MINING



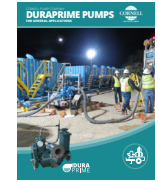
MUNICIPAL



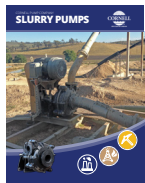
WATER TRANSFER



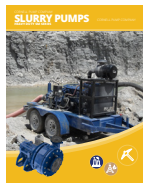
REFRIGERATION



CONSTRUCTION



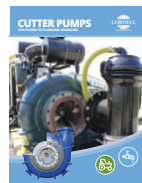
SLURRY



SLURRY SM



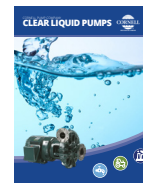
MANURE



CUTTERS



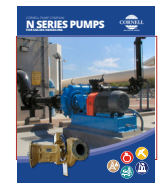
SELF PRIMING



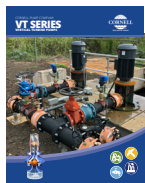
CLEAR LIQUIDS



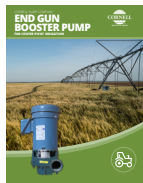
MX SERIES



N SERIES



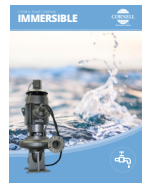
CYCLONE™



EDGE™



HYDRAULIC SUBS



IMMERSIBLE



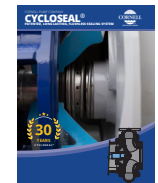
CD4MCU



RUN-DRY™



PRIMING SYSTEMS



CYCLOSEAL®

Cycloseal® and Redi-Prime® are Registered Trademarks of Cornell Pump Company.

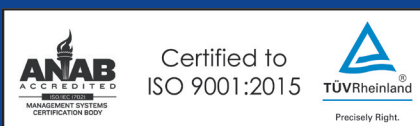
Cornell pumps and products are the subject of one or more of the following U.S. and foreign patents:

6,074,554; 6,036,434; 6,079,958; 6,309,169; 6,104,949.

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