



CORNELL PUMP COMPANY

# SLURRY PUMPS

CURVES



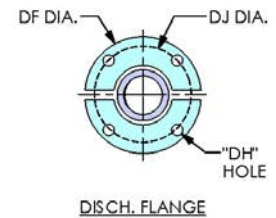
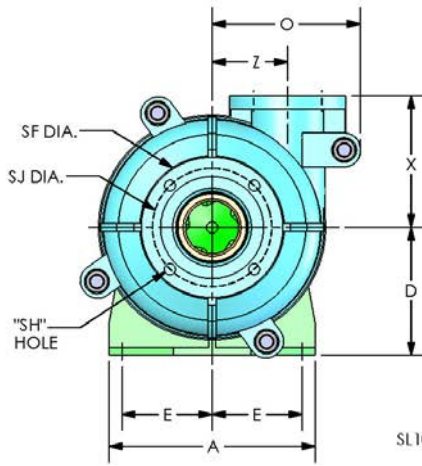
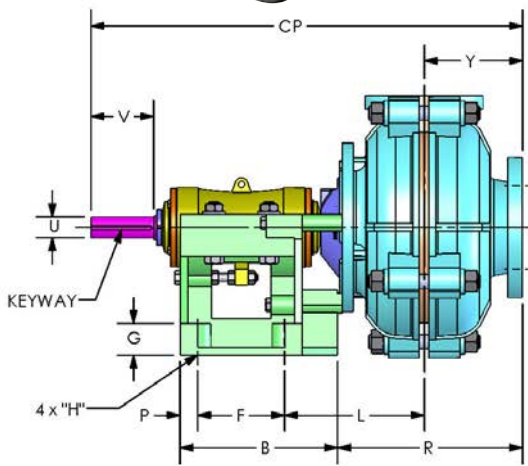
EFFICIENT BY DESIGN



# SLURRY PUMPS



**CORNELL'S NEW SLURRY PUMPS EXPAND OUR LINE OF DEWATERING PUMPING SOLUTIONS TO ABRASIVE APPLICATIONS IN THE MINING PROCESS INDUSTRY. WITH CORNELL'S PATENTED CYCLOSEAL® TECHNOLOGY, OUR SLURRY PUMPS ARE BUILT TO OPERATE WITHOUT FLUSH WATER.**



SL10046

**NOTES:**

1. Do not use for construction unless certified.
2. Dimension "U" and Keyway are in millimeters. All other dimensions in inches.
3. Flange dimensions are non-standard.

MODEL	FLANGE DIMENSION					
	DISCHARGE			SUCTION		
	DF	DJ	DH	SF	SJ	SH
2SP	7.25	5.75	4x.75	8.5	7	4x.75
3SP	9.02	7.52	4x.88	10.98	9.25	4x.88
4SP	10.98	9.25	4x.88	13.27	11.5	4x.88
6SP	14.49	12.76	8x.81	15.98	14.02	8x.88
8SP	17.01	14.76	8x1.13	19.76	17.52	8x1.13
10SP	20.75	18.5	12x1.0	20.75	18.5	8x1.0
12SP	21.73	19.49	12x1.0	23.03	20.51	12x1.0

MODEL	FRAME	WEIGHT (LB)		
		METAL	RUBB.	
2SP	C	420	340	
3SP	C	580	520	
3SP	D	800	640	
4SP	D	1380	1000	
4SP	E	1600	1400	
6SP	E	3250	2165	
6SP	R	4050	2965	
8SP	ST	8270	6900	
10SP	ST	10185	7400	
12SP	ST	14130	10300	

MODEL	FRAME	CONNECTION		PUMP DIMENSIONS																	
		DISCH.	SUCT.	A	B	CP	D	E	F	G	H	L	O	P	R	U	V	X	Y	Z	KEYWAY
		2SP	C	2	3	15.98	12.24	30.24	10	7	6.89	1.89	0.75	9.17	9.37	1.26	11.06	42mm	4.76	8.27	5.98
3SP	C	3	4	15.98	12.24	33.19	10	7	6.89	1.89	0.75	10.63	11.5	1.26	13.94	42mm	4.76	10.31	7.4	5.87	12mm x 8mm
3SP	D	3	4	19.37	14.33	37.13	13	8.5	8.39	2.52	0.87	10.98	11.5	1.5	13.9	65mm	6.46	10.31	7.4	5.87	18mm x 11mm
4SP	D	4	6	19.37	14.33	40.2	13	8.5	8.39	2.52	0.87	12.52	15.98	1.5	16.57	65mm	6.46	13.31	8.5	9.02	18mm x 11mm
4SP	E	4	6	24.49	17.64	46.38	17.99	10.75	10.12	2.99	1.14	13.82	15.98	2.13	17.05	80mm	8.74	13.31	8.5	9.02	22mm x 14mm
6SP	E	6	8	24.49	17.64	51.26	17.99	10.75	10.12	2.99	1.14	15.83	21.69	2.13	21.93	80mm	8.74	18.11	11.5	12.52	22mm x 14mm
6SP	R	6	8	26.77	23.23	53.54	13.78	11.02	19.29	2.76	-	12.28	21.69	1.98	21.81	85mm	8.5	18.11	11.5	12.52	22mm x 14mm
8SP	ST	8	10	45.28	30.71	68.82	25.59	17.72	24.41	4.92	1.89	17.28	26.5	3.15	27.24	120mm	11.02	25	13.11	16.5	32mm x 18mm
10SP	ST	10	12	45.28	30.71	71.5	25.59	17.72	24.41	4.92	1.89	18.13	29.72	3.15	30	120mm	11.02	26.54	15	18.27	32mm x 18mm
12SP	ST	12	14	45.28	30.71	73.74	25.59	17.72	24.41	4.92	1.89	19.13	37.17	3.15	31.97	120mm	11.02	32.76	15.98	24.76	32mm x 18mm

## APPLICATIONS

- Dewatering
- Cyclone feed
- Regrind
- Flotation
- Mill discharge
- Tailings and mine refuse
- Mining and mineral processing
- Heavy duty abrasive slurries
- Medium duty abrasive slurries
- In-plant slurry transfer pumps

The SP series is designed to transport heavy abrasive slurry with high concentration of solids, at pH levels 1 to 13 (rubber lined) and 3 to 14 (metal). Pumps available in chrome iron and rubber lining configurations. SP series pumps are designed to handle abrasive high density slurries in mining, metallurgical, coal, manure, and other industrial applications.

## BENEFITS

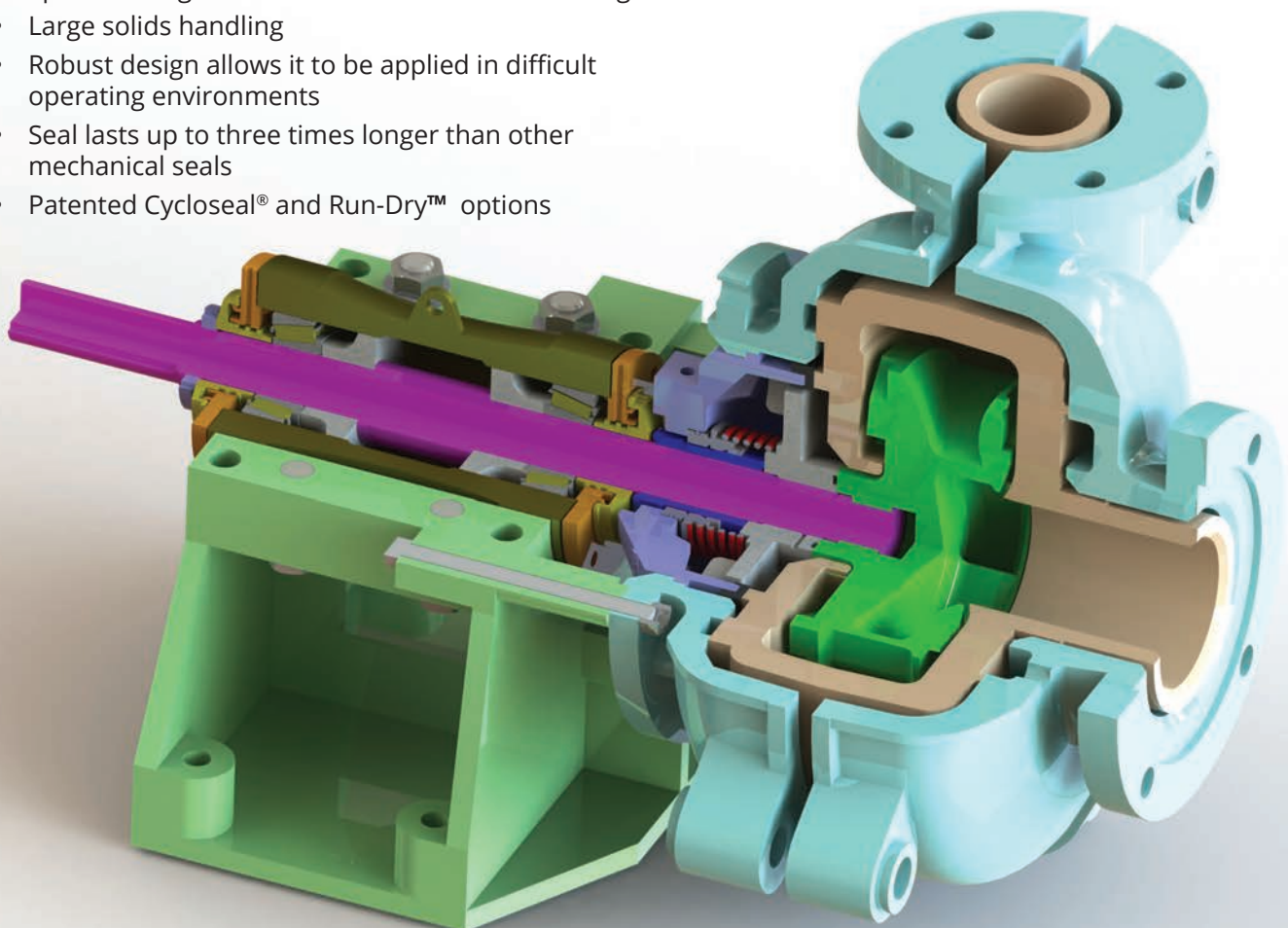
- Solids handling up to 3.5"
- Heads up to 235' at BEP
- No Flush Water Required
- Industry leading two year warranty
- Superior abrasive and corrosive wear life
- Handles pH levels 1 to 13 (rubber lined) and 3 to 14 (metal)
- Available in rubber lined or chrome-iron configuration

## FEATURES

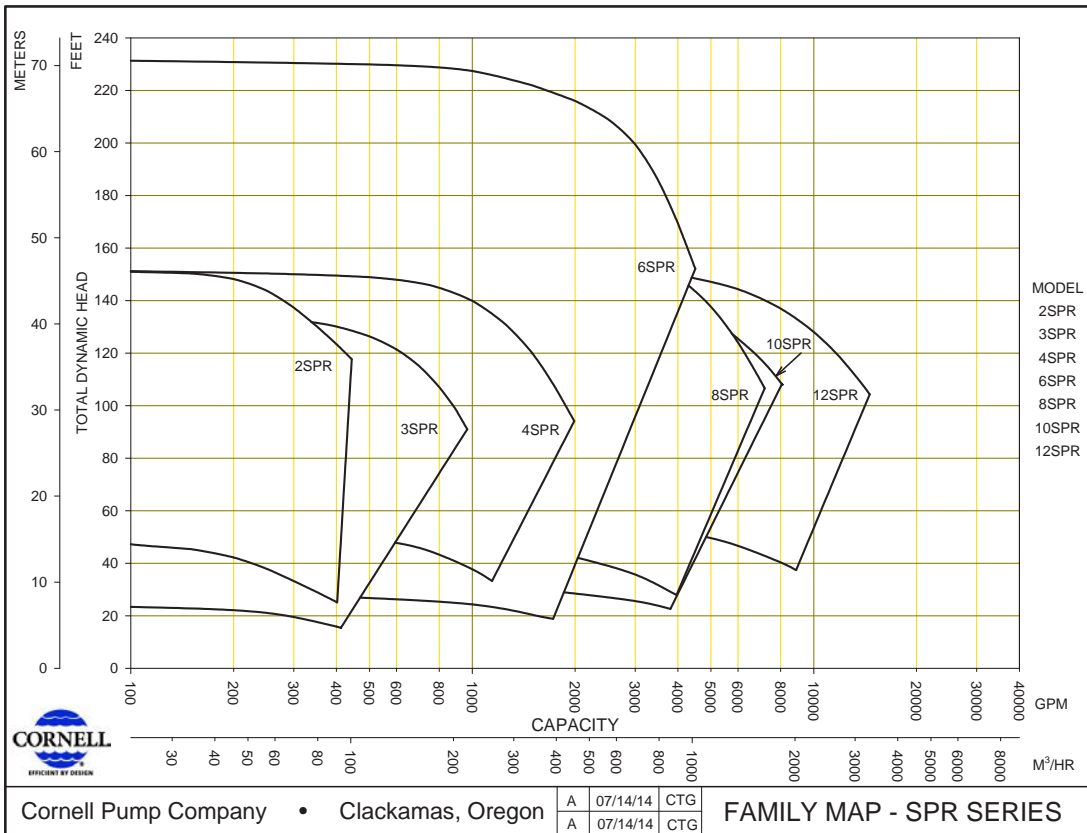
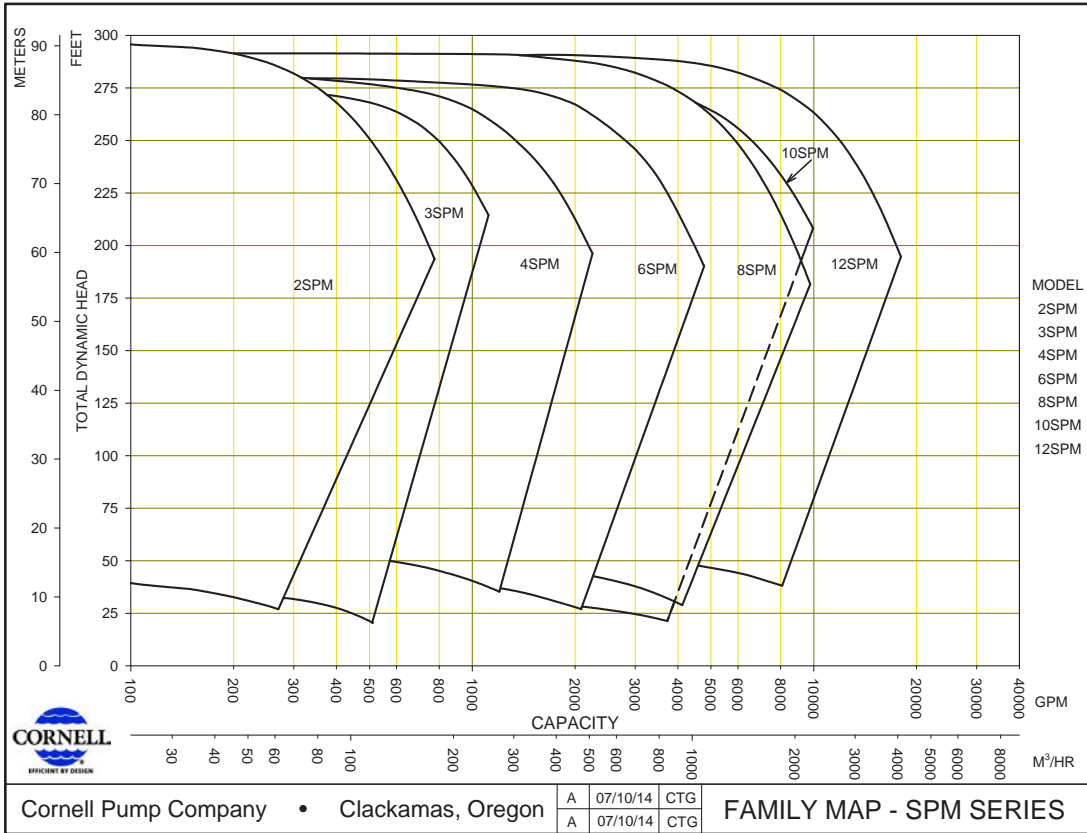
- Specific lining allows for various material handling
- Large solids handling
- Robust design allows it to be applied in difficult operating environments
- Seal lasts up to three times longer than other mechanical seals
- Patented Cycloseal® and Run-Dry™ options

## SPECIFICATIONS

- Housing Material: Ductile iron
- Liner Material: Chrome iron or rubber
- Impeller Material: Chrome iron or rubber
- Backplate: Chrome iron
- Bearing Housing & Pedestal: Cast iron
- Discharge Size: 2" to 12"
- Flow rate: Up to 14,000 GPM
- Seal Type: Cycloseal or gland packing
- Solids Diameter: Up to 3.5"
- Impeller Type: Enclosed
- Head: Up to 235' at BEP



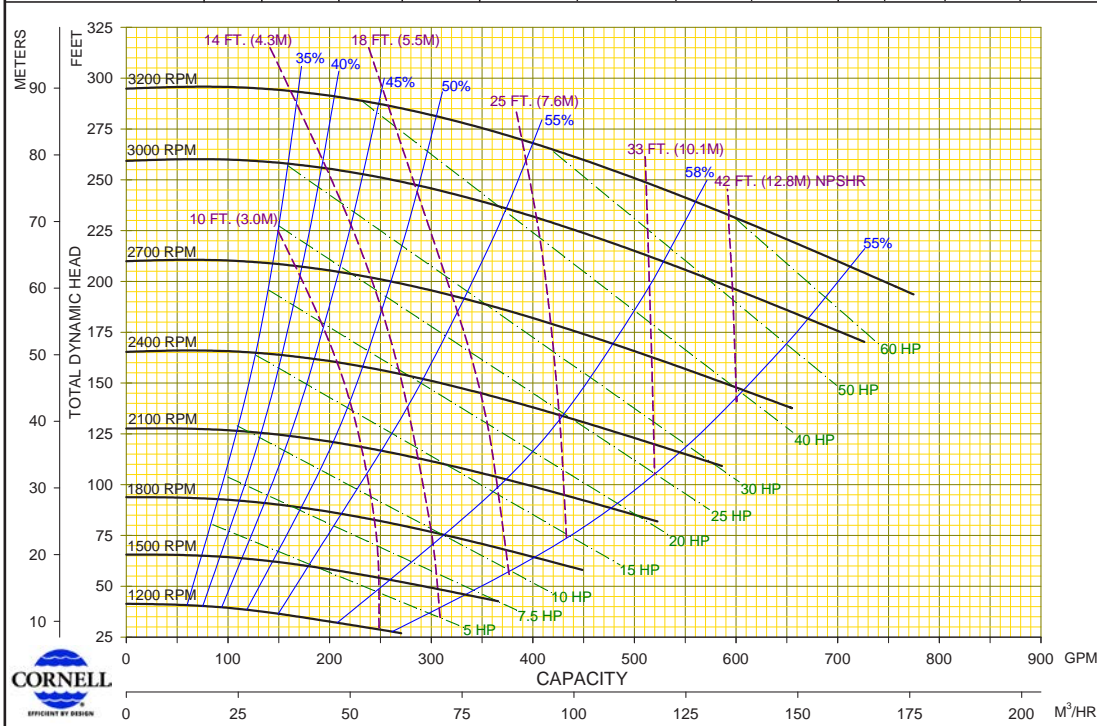
# SLURRY PUMPS





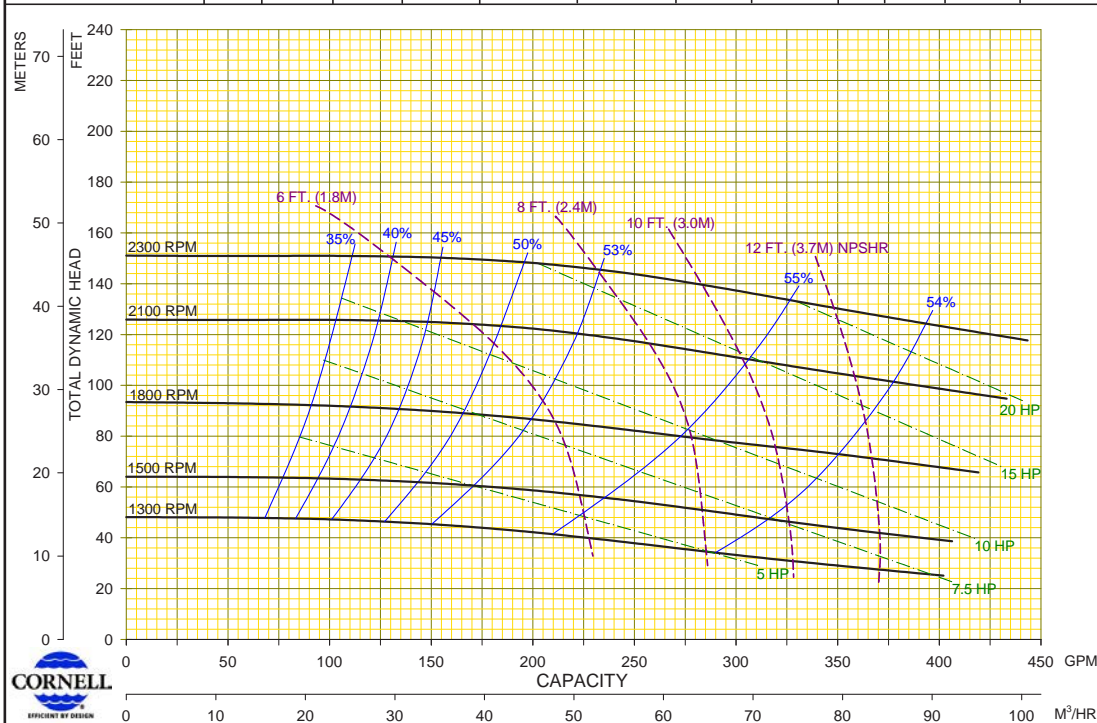
# SLURRY PUMPS

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	C	40	METAL	VARIOUS	8.4"	ENCLOSED	SINGLE	1.0"	1265	3"	2"	5



Cornell Pump Company • Clackamas, Oregon	02 06/30/14	CTG	MODEL : 2SPM	CURVE NO:
	00 12/16/13	GH	TYPE : SLURRY PUMP	2SPMVA

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	C	40	RUBBER	VARIOUS	8.4"	OPEN	SINGLE	.8"	1070	3"	2"	5

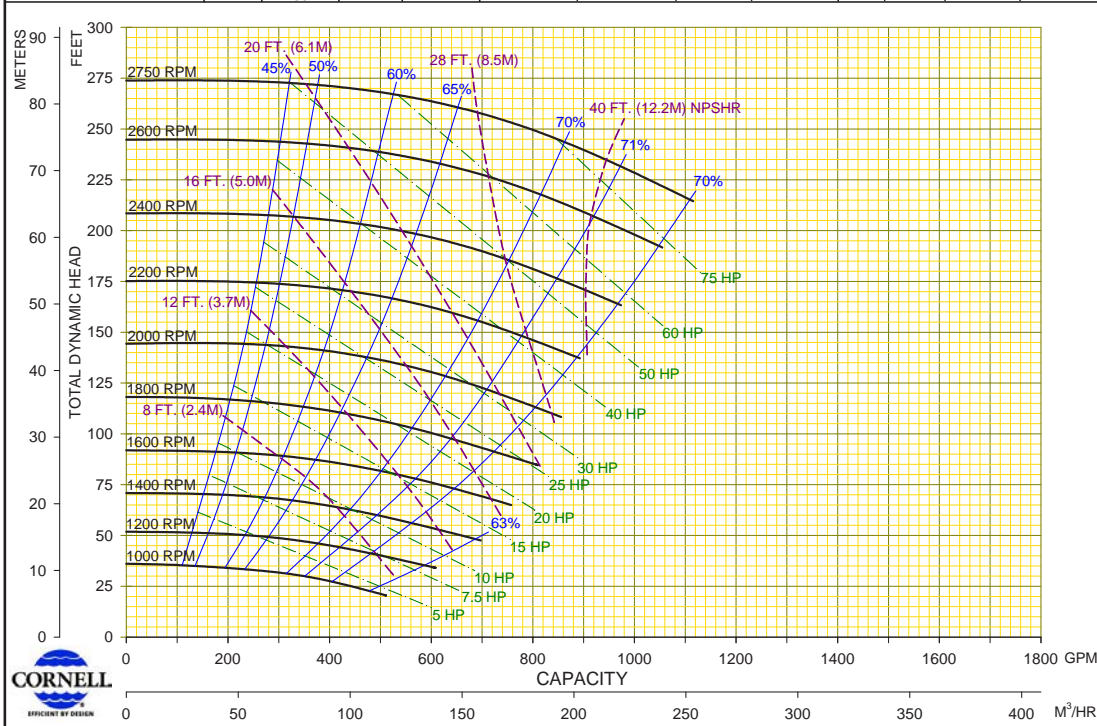


Cornell Pump Company • Clackamas, Oregon	02 06/27/14	CTG	MODEL : 2SPR	CURVE NO:
	00 12/16/13	GH	TYPE : SLURRY PUMP	2SPRVA

# SLURRY PUMPS

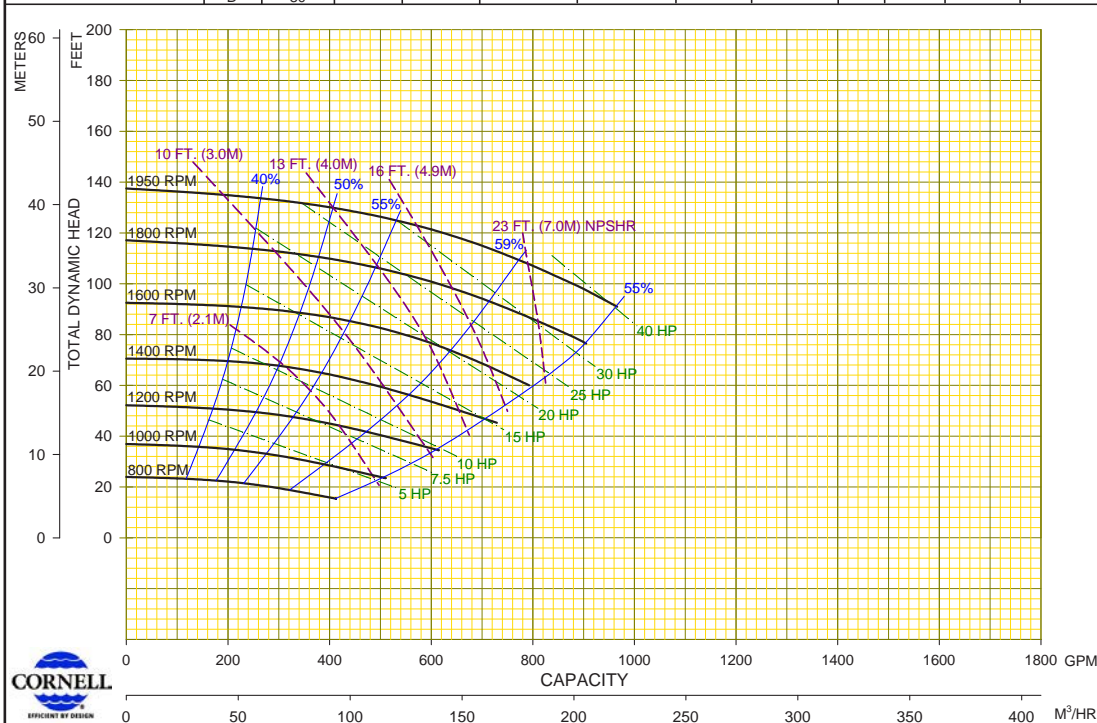


Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	C	40	METAL	VARIOUS	9.6"	ENCLOSED	SINGLE	1.1"	1448	4"	3"	5
	D	80										



Cornell Pump Company • Clackamas, Oregon	02	06/27/14	CTG	MODEL : 3SPM	CURVE NO: <b>3SPMVA</b>
	00	12/16/13	GH	TYPE : SLURRY PUMP	

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	C	40	RUBBER	VARIOUS	9.6"	ENCLOSED	SINGLE	1.1"	1605	4"	3"	5
	D	80										

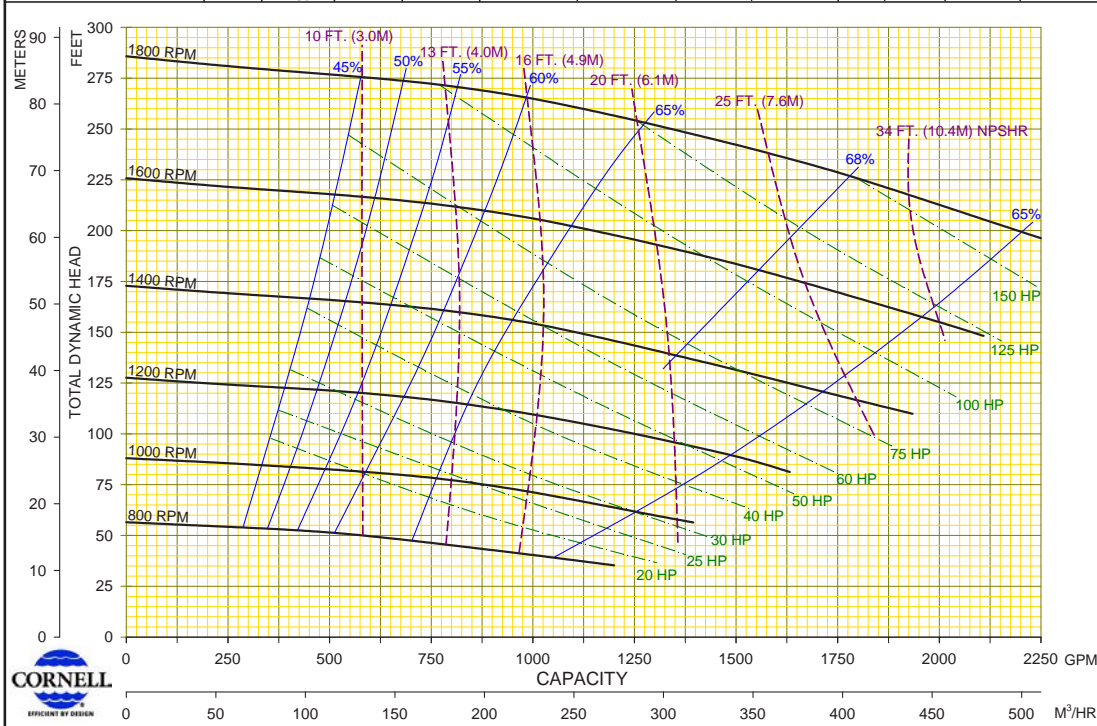


Cornell Pump Company • Clackamas, Oregon	01	06/27/14	CTG	MODEL : 3SPR	CURVE NO: <b>3SPRVA</b>
	00	02/14/14	GH	TYPE : SLURRY PUMP	



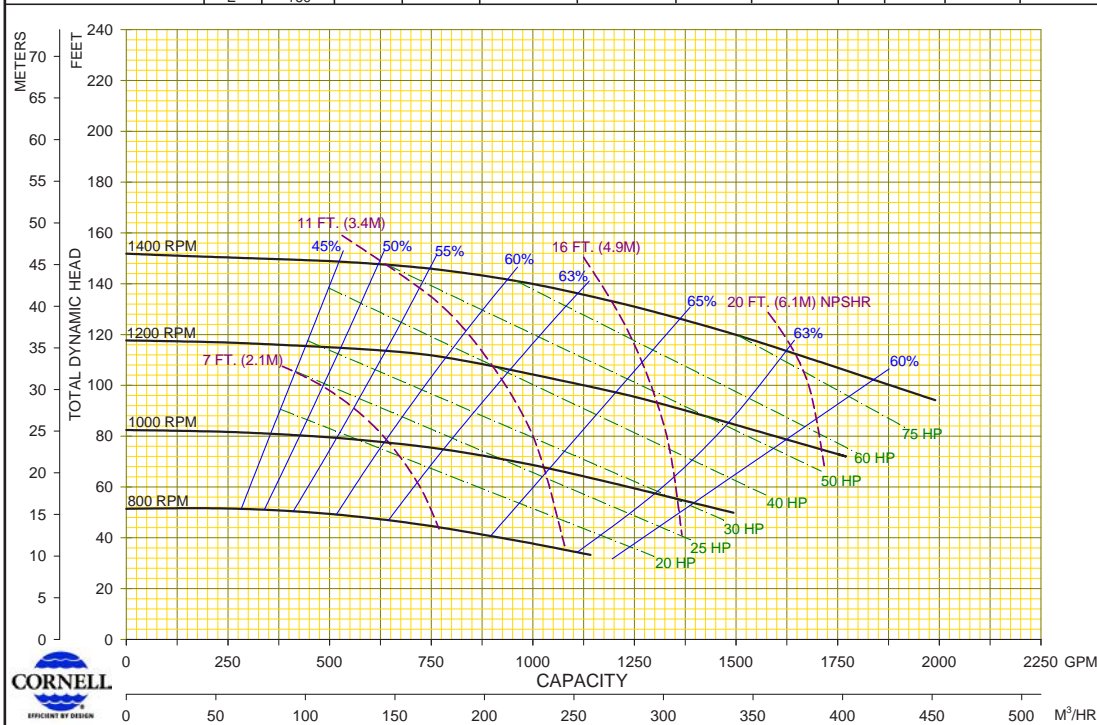
# SLURRY PUMPS

Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
D	80	METAL	VARIOUS	14.4"	ENCLOSED	SINGLE	1.7"	1300	6"	4"	5
E	160										



Cornell Pump Company • Clackamas, Oregon	01	06/27/14	CTG	MODEL : 4SPM	CURVE NO: <b>4SPMVA</b>
	00	12/16/13	GH	TYPE : SLURRY PUMP	

Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
D	80	RUBBER	VARIOUS	14.4"	ENCLOSED	SINGLE	1.3"	1375	6"	4"	5
E	160										



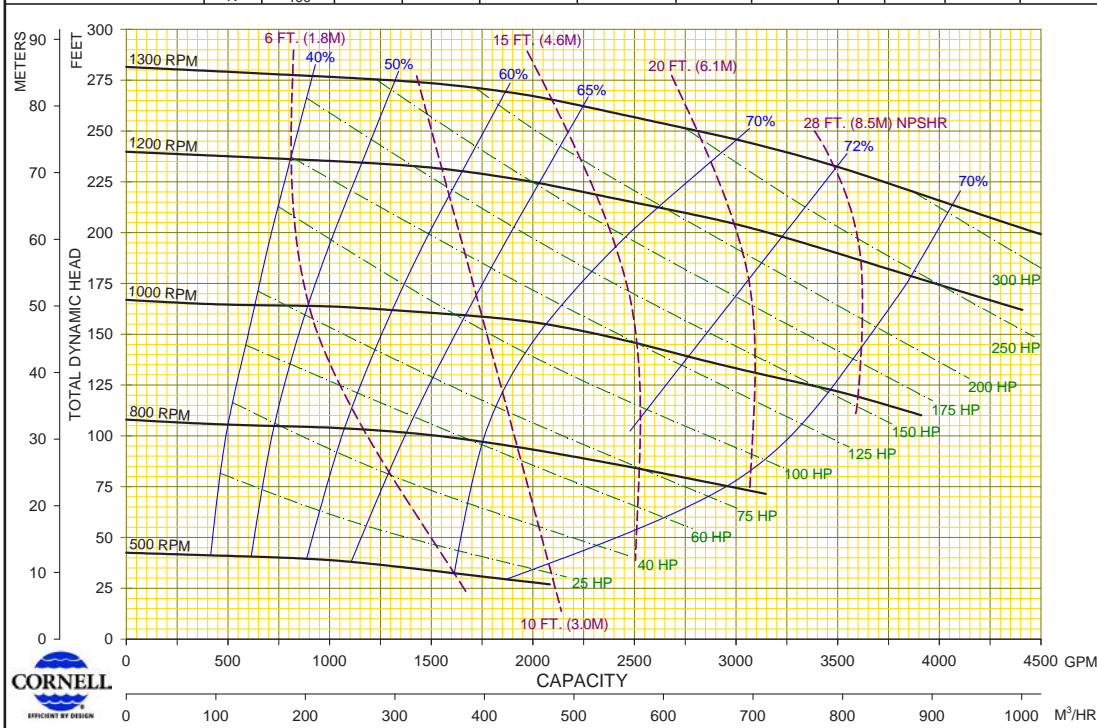
Cornell Pump Company • Clackamas, Oregon	01	06/20/14	CTG	MODEL : 4SPR	CURVE NO: <b>4SPRVA</b>
	00	12/16/13	GH	TYPE : SLURRY PUMP	

# SLURRY PUMPS



Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
E	160	METAL	VARIOUS	20.0"	ENCLOSED	SINGLE	2.5"	1300	8"	6"	5
R	400										

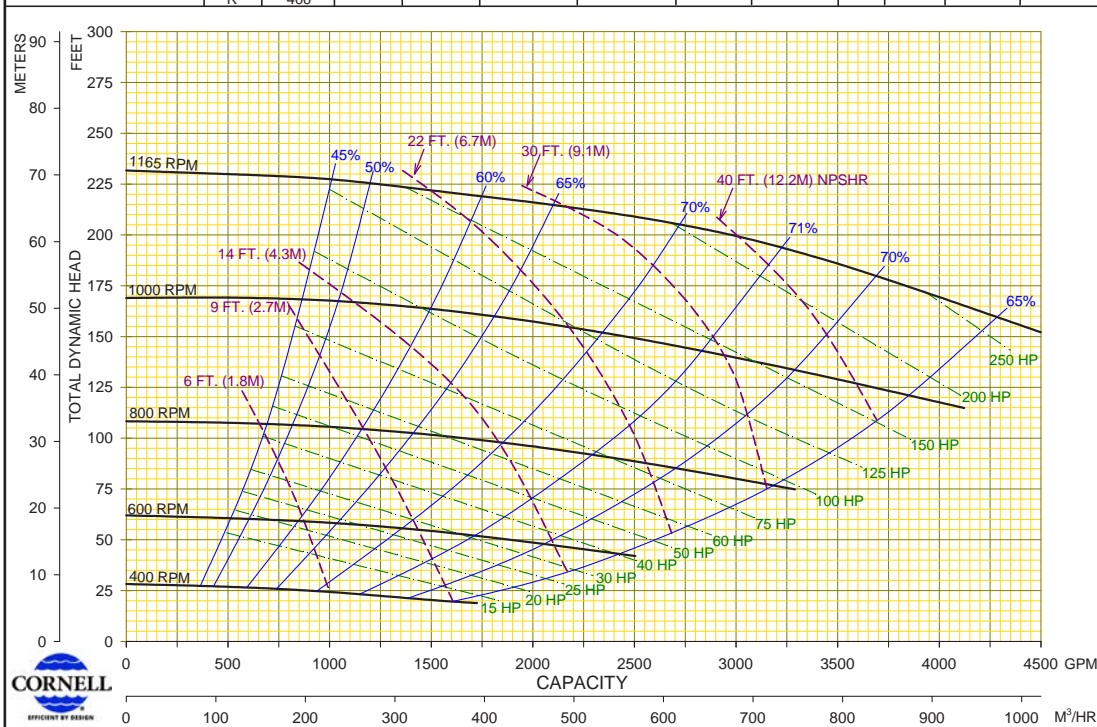
Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.



Cornell Pump Company • Clackamas, Oregon	01	06/20/14	CTG	MODEL : 6SPM	CURVE NO: <b>6SPMVA</b>
	00	2/13/14	GH	TYPE : SLURRY PUMP	

Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
E	160	RUBBER	VARIOUS	20.0"	ENCLOSED	SINGLE	2.5"	1300	8"	6"	5
R	400										

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.



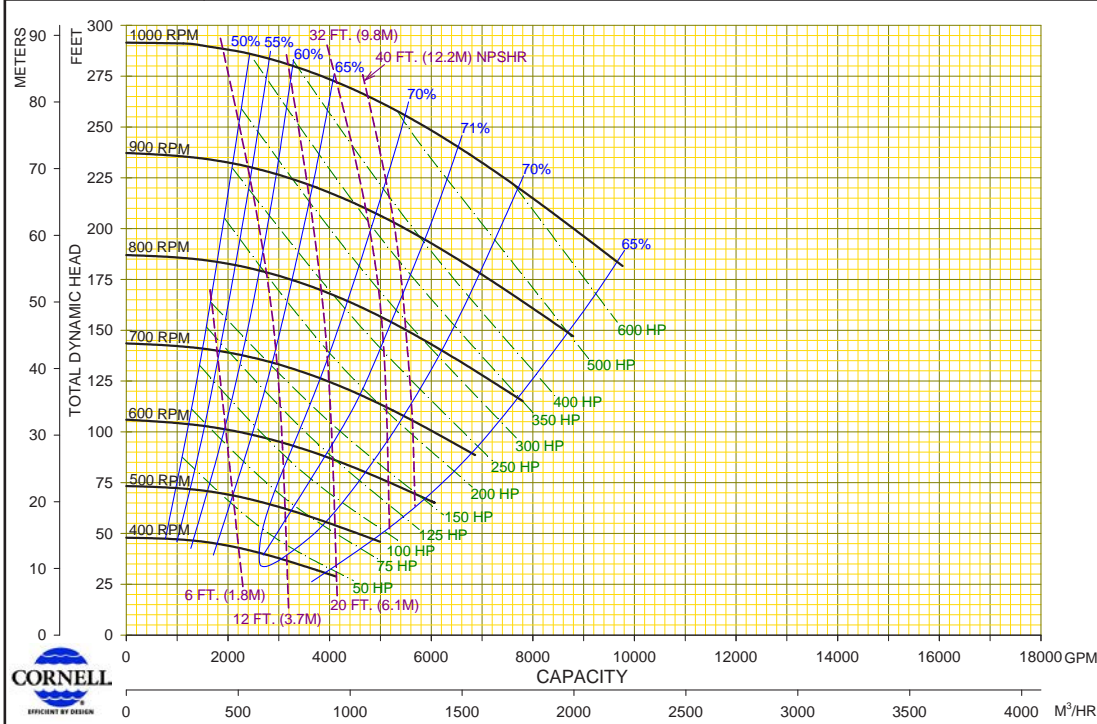
Cornell Pump Company • Clackamas, Oregon	01	06/27/14	CTG	MODEL : 6SPR	CURVE NO: <b>6SPRVA</b>
	00	2/13/14	GH	TYPE : SLURRY PUMP	





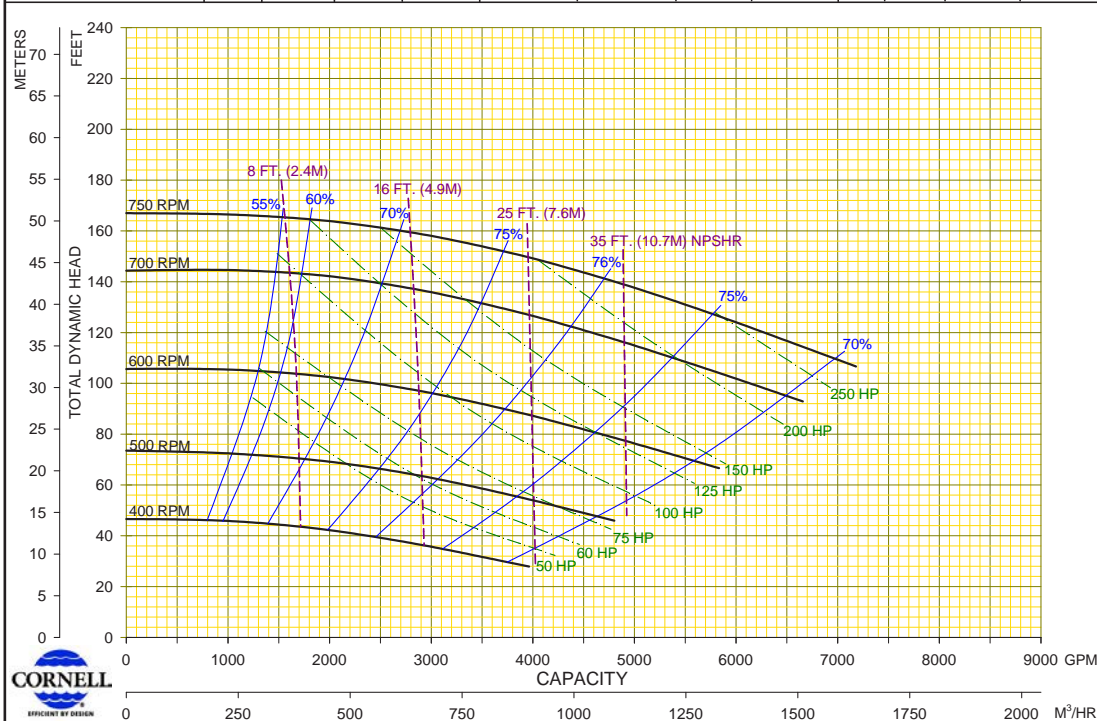
# SLURRY PUMPS

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	ST	750	METAL	VARIOUS	27"	ENCLOSED	SINGLE	3"	1550	10"	8"	5



Cornell Pump Company • Clackamas, Oregon	02	07/02/14	CTG	MODEL : 8SPM	CURVE NO: <b>8SPMVA</b>
	00	12/16/13	GH	TYPE : SLURRY PUMP	

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclo Seal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	ST	750	RUBBER	VARIOUS	27"	ENCLOSED	SINGLE	3"	1255	10"	8"	5

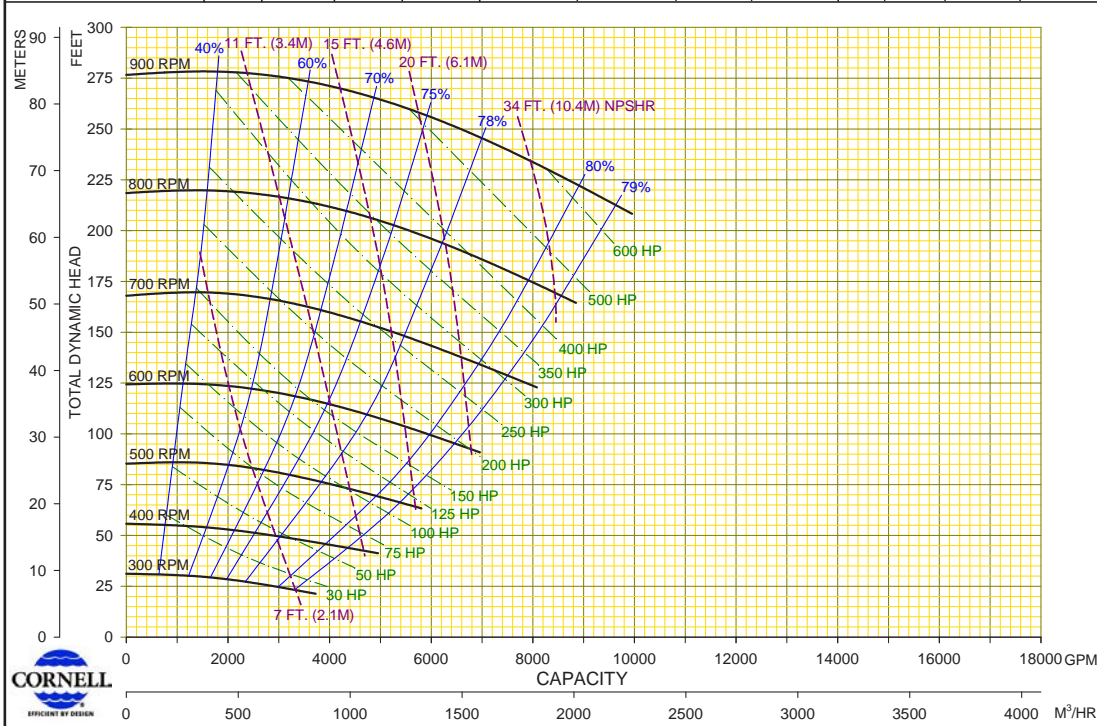


Cornell Pump Company • Clackamas, Oregon	01	06/20/14	CTG	MODEL : 8SPR	CURVE NO: <b>8SPRVA</b>
	00	12/16/13	GH	TYPE : SLURRY PUMP	

# SLURRY PUMPS

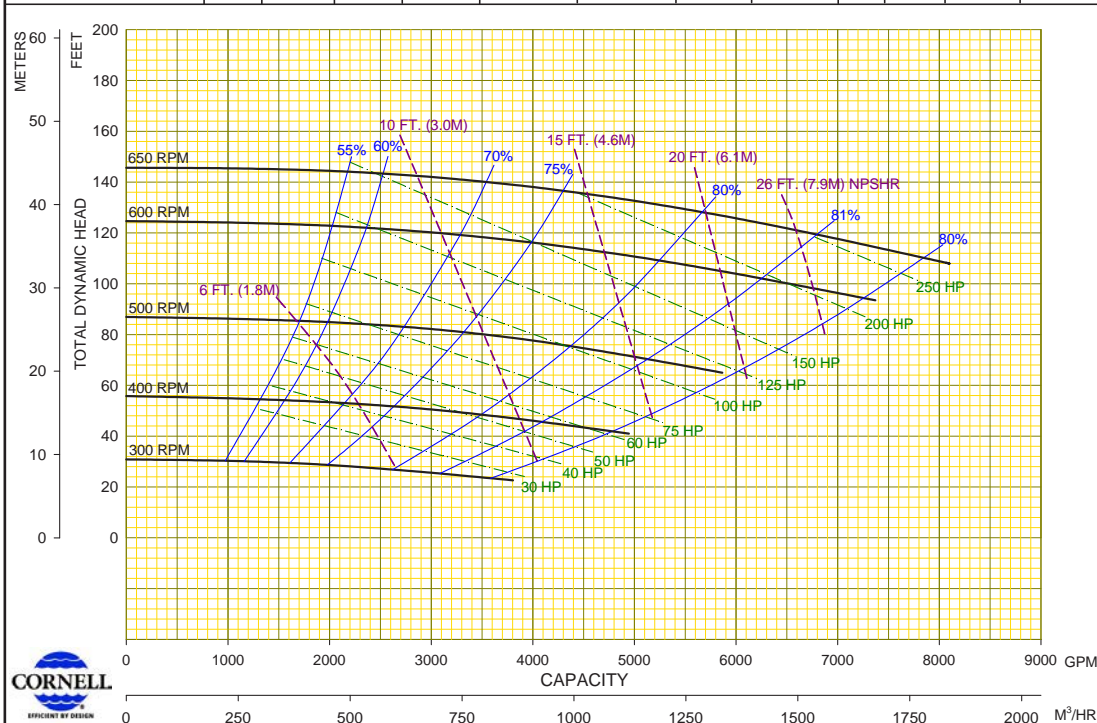


Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclosoal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	ST	750	METAL	VARIOUS	30"	ENCLOSED	SINGLE	3.4"	1480	12"	10"	5



Cornell Pump Company • Clackamas, Oregon	02	07/02/14	CTG	MODEL : 10SPM	CURVE NO: 10SPMVA
	00	6/12/14	GH	TYPE : SLURRY PUMP	

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cyclosoal®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	ST	750	RUBBER	VARIOUS	30"	ENCLOSED	SINGLE	3.4"	1480	12"	10"	5

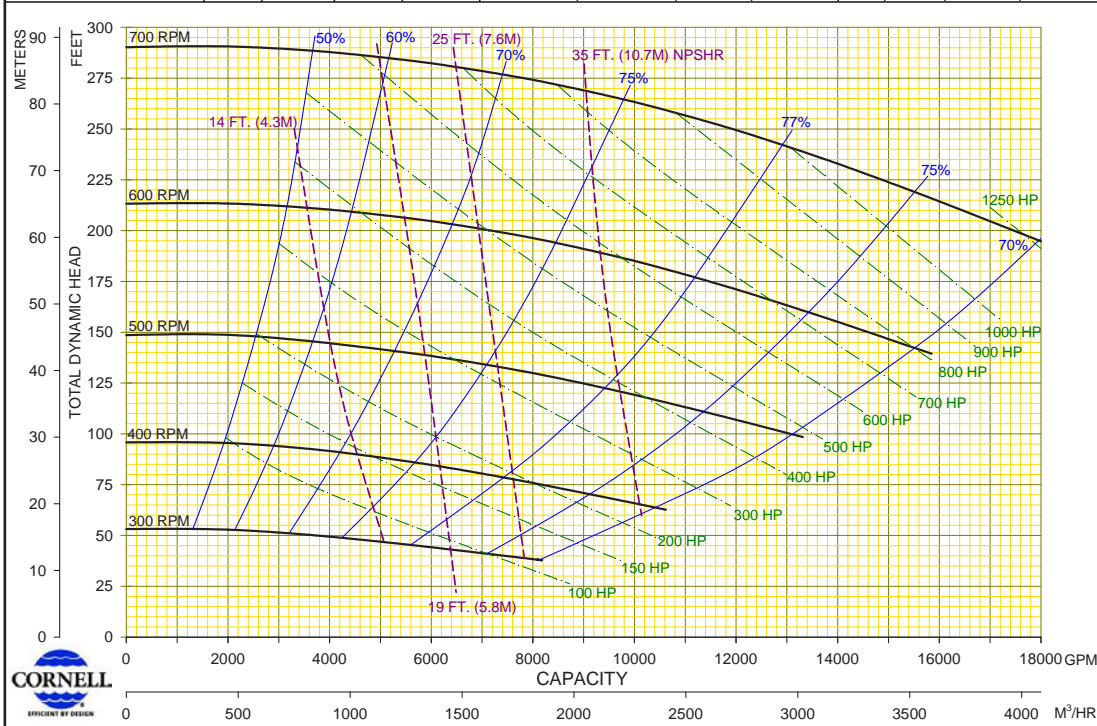


Cornell Pump Company • Clackamas, Oregon	01	06/27/14	CTG	MODEL : 10SPR	CURVE NO: 10SPRVA
	00	12/16/13	GH	TYPE : SLURRY PUMP	



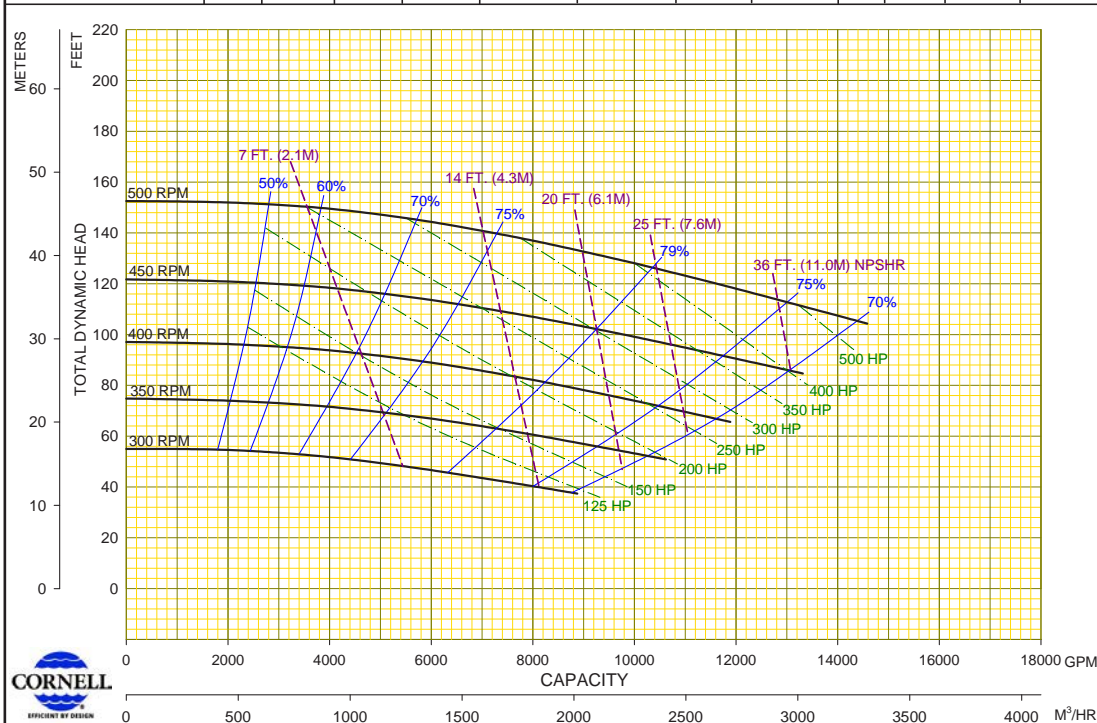
# SLURRY PUMPS

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cycloset®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	ST	750	METAL	VARIOUS	38"	ENCLOSED	SINGLE	3.5"	1315	14"	12"	5



Cornell Pump Company • Clackamas, Oregon	02	06/27/14	CTG	MODEL: 12SPM	CURVE NO: 12SPMVA
	00	12/16/13	GH	TYPE: SLURRY PUMP	

Performances shown are for S.G. 1.0 60°F water, frame mounted configuration with Cycloset®. Other mounting styles or S.G. may require curve adjustments.	Frame	Max HP	Liner	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
	ST	750	RUBBER	VARIOUS	38"	ENCLOSED	SINGLE	4.1"	1315	14"	12"	5



Cornell Pump Company • Clackamas, Oregon	01	06/27/14	CTG	MODEL: 12SPR	CURVE NO: 12SPRVA
	00	12/16/13	GH	TYPE: SLURRY PUMP	



# MARKET AND PRODUCT LINE



AGRICULTURAL



FOOD PROCESS



INDUSTRIAL



MINE DEWATERING



MUNICIPAL



REFRIGERATION



OIL & GAS



CYCLOSEAL®



CHOPPER



CUTTER



EDGE™



HYDRAULIC SUBS



HYDRO TURBINE



IMMERSIBLE



MANURE



MP SERIES



MX SERIES



MX MINING



REDI-PRIME®



SELF PRIMING



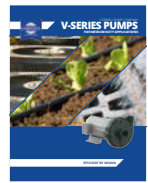
SLURRY



SUBMERSIBLE



WATER TRANSFER



V SERIES

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Cornell pumps and products are the subject of one or more of the following U.S. and foreign patents: 3,207,485; 3,282,226; 3,295,456; 3,301,191; 3,630,637; 3,663,117; 3,743,437; 4,335,886; 4,523,900; 5,489,187; 5,591,001; 6,074,554; 6,036,434; 6,079,958; 6,309,169; 2,320,742; 96/8140; 319,837; 918,534; 1,224,969; 2,232,735; 701,979 and are the subject of pending U.S. and foreign patent applications.



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