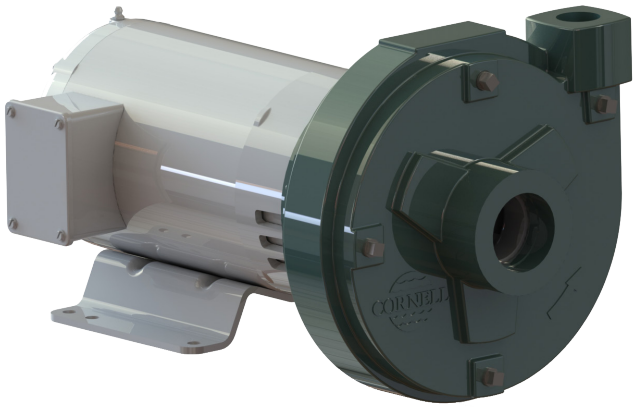
DATA SHEET

1VH

AVAILABLE MOUNTING CONFIGURATIONS
1VH-CC CLOSE-COUPLED

OPERATING LEVELS		
MIN FLOW	30 GPM	6.9 m^3/h
MAX FLOW	230 GPM	53 m^3/h
DISCHARGE SIZE	1"	25 mm
SUCTION SIZE	2"	51 mm
MAX IMPELLER DIA.	8"	20.3 cm
SOLIDS HANDLING	.31"	8 mm
MAX SPEED	3600 RPM	3600 RPM
MAX PRESSURE	175 PSI	1207 kPa
SHUT-OFF HEAD	285'	87 m
BEP HEAD	250'	76.2 m
BEP FLOW	140 GPM	32.2 m^3/h
BEP	63%	63%

PARTS	STANDARD MATERIAL
WEAR RING	DUCTILE IRON
IMPELLER	CAST IRON
VOLUTE CASING	CAST IRON
SHAFT	CARBON STEEL
SHAFT SLEEVE	303 STAINLESS STEEL
BACKPLATE / BRACKET	CAST IRON
MECHANICAL SEAL	T-21, BUNA, SILICON CARBIDE FACES
MOTOR	ODP W/ 1.15 SF



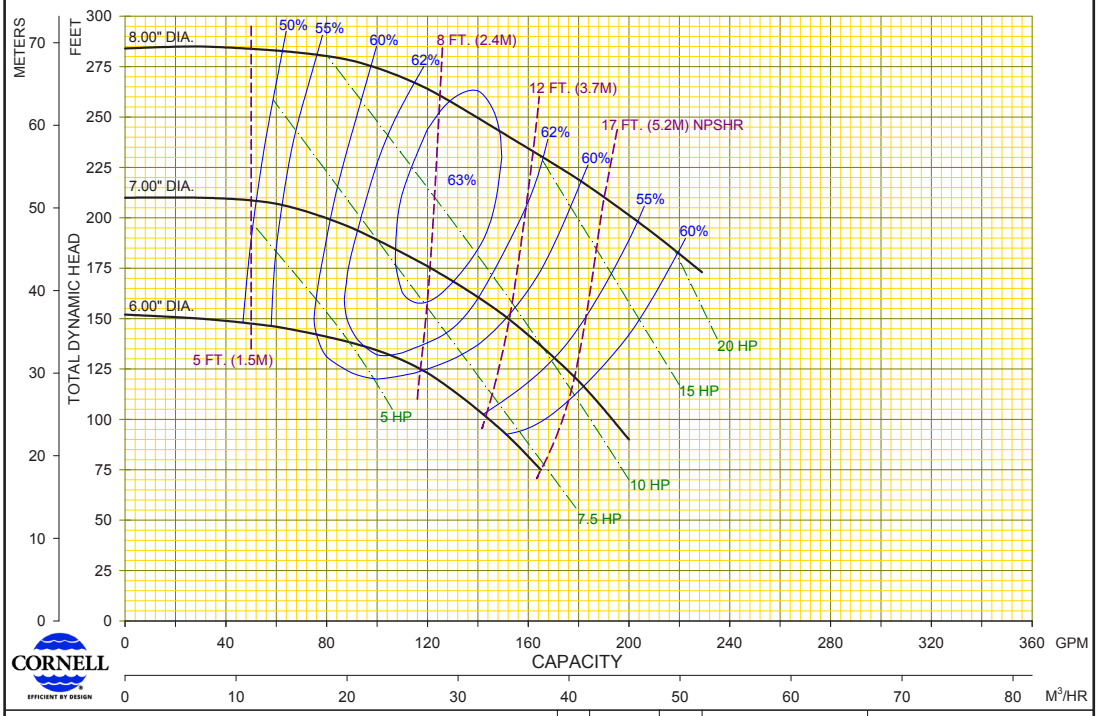
A typical picture of the pump is shown. Please contact Cornell Pump Company for further details. All information is approximate and for general guidance only.

The 1VH pump is designed with Cornell's renowned quality and durability. It features a 1" discharge, 2" suction, tangential volute and enclosed impeller. A type 21 single mechanical seal is standard, with Buna-N elastomers, stainless steel hardware and silicon carbide vs. silicon carbide seal faces. The 1VH comes standard with an open drip-proof motor that operates between 1800 and 3600 RPM; other motor options are available including TEFC and others.

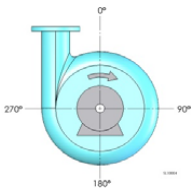
- Standard iron construction with stainless shaft sleeve
- Back pull-out design
- Replaceable suction wear ring and shaft sleeve
- High efficiency hydraulics
- Low operating costs
- Two-year warranty
- Other mechanical seal options available
- FIPT connections

AGRICULTURE FOOD INDUSTRIAL MINING MUNICIPAL OIL & GAS REFRIGERATION RENTAL

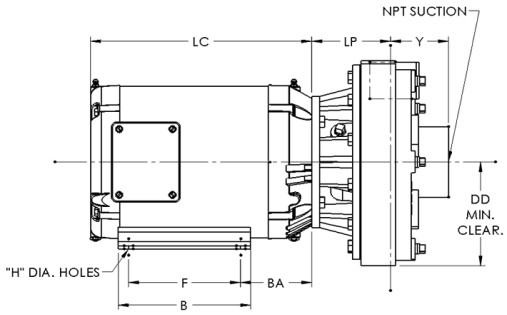
Performances shown are for S.G. 1.0 60°F water, close-coupled configuration. Other mounting styles or S.G. may require curve adjustments.	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N_S	Suction	Discharge	No. Vanes
	3500 RPM	VARIOUS	ENCLOSED	SINGLE	.31	650	2"	1"	6

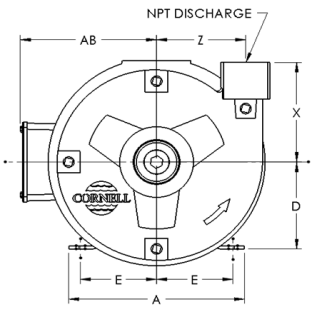


Cornell Pump Company • Clackamas, Oregon					
	00	07/14/14	CTG	MODEL : 1VH	CURVE NO: 1VH36
	00	07/14/14	CTG	TYPE : CLEAR LIQUID	



NOTES:
Discharge positions are viewed from the drive end. Standard increments of discharge position are shown in the chart below (DISCH INCR). Consult factory for other discharge positions.





PUMP DIMENSIONS*

MODEL	CONNECTION DISCH.	CONNECTION SUCT.	DISCH. INCR.	AK DIM.	DD	X	Y	Z	LP
1VH	1 NPT	2 NPT	90°	4.5	5¼	5⅛	2¾	4⅜	4
	1 NPT	2 NPT	90°	8.5	5¼	5⅛	2¾	4⅜	4⅛
	1 NPT	2 NPT	90°	8.5	5¼	5⅛	2¾	4⅜	see factory
	1 NPT	2 NPT	90°	12.5	5¼	5⅛	2¾	4⅜	see factory

*Consult Factory for Motor Dimensions

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