

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%



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 KamalBlower'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

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



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



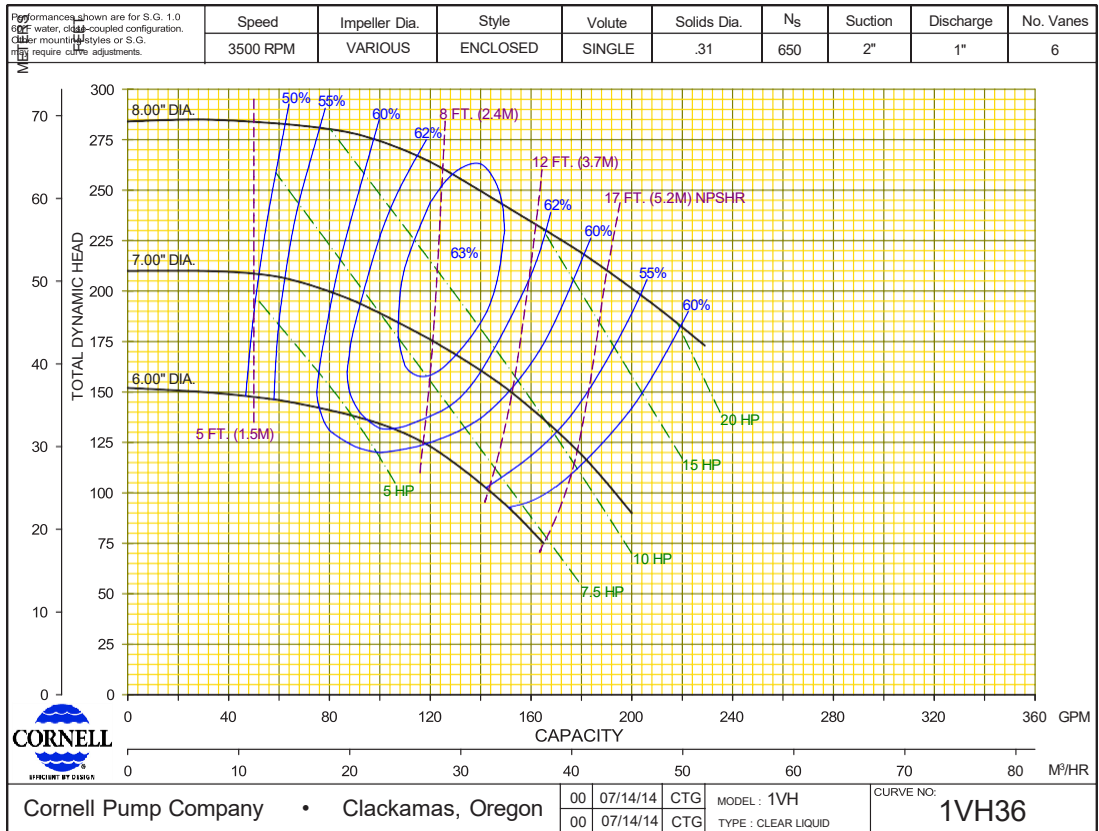
OIL & GAS



REFRIGERATION



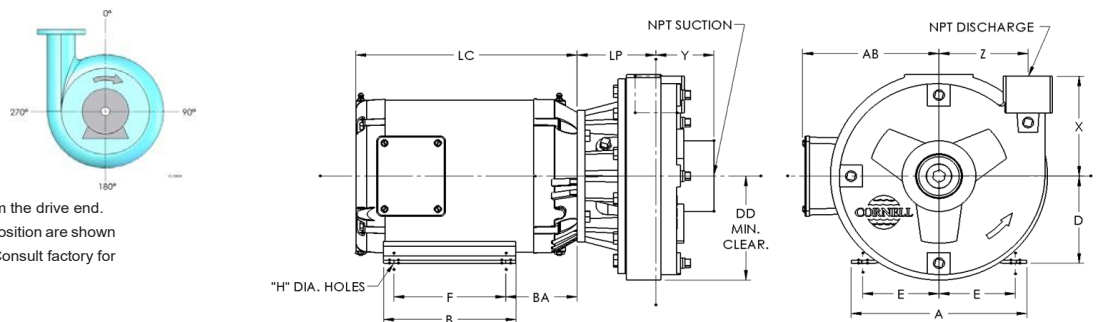
RENTAL



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



CONNECTION		DISCH.		AK		PUMP DIMENSIONS*										NOTES:									
MODEL	DISCH.	SUCT.	INCR.	DIM.	DD	X	Y	Z	LP	DD	AK	DIM.	DD	X	Y	Z	LP								
1VL	1 NPT	2 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
1.5VL	1 1/2 NPT	2 1/2 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
2VL	2 NPT	3 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
3VL	3 NPT	4 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
4VL	4 NPT	5 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
5VL	5 NPT	6 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
6VL	6 NPT	7 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
7VL	7 NPT	8 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
8VL	8 NPT	9 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
9VL	9 NPT	10 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
10VL	10 NPT	11 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
11VL	11 NPT	12 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
12VL	12 NPT	13 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
13VL	13 NPT	14 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
14VL	14 NPT	15 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
15VL	15 NPT	16 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
16VL	16 NPT	17 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
17VL	17 NPT	18 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
18VL	18 NPT	19 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
19VL	19 NPT	20 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
20VL	20 NPT	21 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
21VL	21 NPT	22 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
22VL	22 NPT	23 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
23VL	23 NPT	24 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
24VL	24 NPT	25 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
25VL	25 NPT	26 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
26VL	26 NPT	27 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
27VL	27 NPT	28 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
28VL	28 NPT	29 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
29VL	29 NPT	30 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
30VL	30 NPT	31 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
31VL	31 NPT	32 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
32VL	32 NPT	33 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
33VL	33 NPT	34 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
34VL	34 NPT	35 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
35VL	35 NPT	36 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
36VL	36 NPT	37 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
37VL	37 NPT	38 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
38VL	38 NPT	39 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
39VL	39 NPT	40 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
40VL	40 NPT	41 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
41VL	41 NPT	42 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
42VL	42 NPT	43 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
43VL	43 NPT	44 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
44VL	44 NPT	45 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
45VL	45 NPT	46 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
46VL	46 NPT	47 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
47VL	47 NPT	48 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
48VL	48 NPT	49 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
49VL	49 NPT	50 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
50VL	50 NPT	51 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
51VL	51 NPT	52 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
52VL	52 NPT	53 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
53VL	53 NPT	54 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
54VL	54 NPT	55 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
55VL	55 NPT	56 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
56VL	56 NPT	57 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
57VL	57 NPT	58 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
58VL	58 NPT	59 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
59VL	59 NPT	60 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
60VL	60 NPT	61 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
61VL	61 NPT	62 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
62VL	62 NPT	63 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
63VL	63 NPT	64 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
64VL	64 NPT	65 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
65VL	65 NPT	66 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
66VL	66 NPT	67 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
67VL	67 NPT	68 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
68VL	68 NPT	69 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
69VL	69 NPT	70 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
70VL	70 NPT	71 NPT	90°	8.5	4 1/2	4 1/2	5 1/2	3 1/2	4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4								
71VL	71 NPT	7																							