

C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.

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WASTE WATER SUBMERSIBLE PUMPS - 60Hz





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GLOBAL QUALITY IN THE AMERICAN CONTEXT

To make a break and establish a presence in a highly competitive environment is always a challenge. A challenge that a company of C.R.I's stature is always open to. C.R.I. Fluid systems USA LLC has been set up with the express intention of serving the American market and is equipped at every level to provide complete solutions in the area of Water supply, Waste water treatment, Irrigation, Agriculture, Mining, Power, Building Services and Green Energy. It has its distribution facility in Elberton, Georgia and upcoming manufacturing facility in Texas. In fact, the company is committed to providing solutions specific to the American customer requirements by keeping its ear to the ground and going that extra mile to ensure that needs are met even before they arise. This proactive approach in offering country specific solutions has been a key factor in C.R.I's growth trajectory across the globe.

C.R.I is a global player with a presence in over 120 countries across six continents.

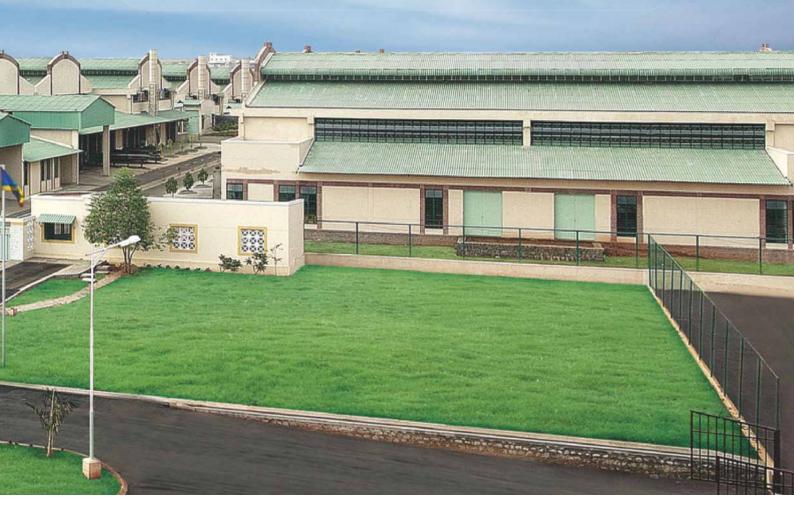
C.R.I is one among the few leaders in the Industry to produce 100% stainless steel pumps and it is a leading manufacturer of environment friendly water filled, rewindable motors. C.R.I has extensive range of Industrial pumps that include End suction pumps, Slurry pumps, Chemical pumps, Waste water pumps, Split case pumps, Booster pumps etc.

Powered by technology and spirit of innovation, C.R.I has always set the benchmark. when it comes to quality and performance C.R.I has what it takes –experience, expertise, commitment and a clear vision – to be precursor of change, an innovator of new technologies and a standard bearer for quality.

Infrastructure

The Infrastructure of C.R.I. is pretty comprehensive with state-of-the-art machineries and a high potential R&D wing, Total production area over 3.2 million SF, fully equipped with world class, Machineries with a manufacturing capacities of more than 3 Million pumps and motors per year and over 2300 product variants

Our production facilities are accredited with international quality certifications such as NSF, ISI, CE, UR, UL, TSE, ISO 9001, ISO 14001, and OHSAS 18001. Fludyn Advanced Technology Center, a state-of-the-art R&D wing of CRI has more than 100 qualified Engineers contributing to the success of CRI. It is recognized by the Ministry of science & Technology, Govt. of India. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.Hypress -Fully mechanized and automated Foundry with state-of-the-art technology. Needless to say, behind this renowned growth lies the determined, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too.





CONTENTS



Submersible Pump with
 Vortex Impeller



 Submersible Cutter & Grinder Pumps

GB Series

Upto 50 HP

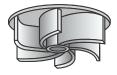
• Discharge Size 1 1/2" - 4"

• Flow Upto 70 lps GT_{series}

Upto 7.5 HP • Discharge Size 1 1/2"

• Flow Upto 6.3 lps





Vortex: vortex impeller suitable for lifting of sewage liquids, civil waste and industrial water containing solids and viscous materials, heavy muds raw or fermented sludge. Applications: urban sewage plants, lifting water plants.



Cutting Device: cutting device is suitable to reduce solids into small pieces which are contained into liquids. This device permit the use of small pipes without risk of clogging. Applications: food industry, textile and agricultural irrigation

CONTRUCTION MAT	ERIALS
Pump housing	Cast iron ASTM A48 No : 35
 Motor housing 	Cast iron ASTM A48 No : 35
Impeller	Cast iron ASTM A48 No : 35
• Cover	Cast iron ASTM A48 No : 35
Shaft	Stainless steel AISI 420
• O-rings	Nitrile
• Cable	H07RNF
Fasteners	AISI 304

APPLICATION LIMITS	
 Max. application temperature 	• 104°F
Service	•S1
Max. starts per hour	•20 times
Max. immersion depth	• 65 feet
• pH liquid	•6 - 12
 liquid viscosity 	• 1 mm ₂ /s
liquid density	•1 Kg/dm ³
Max. Acoustic pressure	•<70dB

Installation Types





1 V

Fixed installation with low level coupling type V



2 F

Movable installation with base stand and connection for rigid pipe

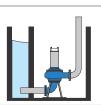


3 G Movable installation for flexible pipe

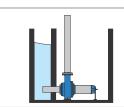


4 H

Fixed installation with HK system

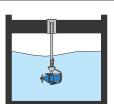


5 C Dry pit vertical installation for pumps with cooling jacket

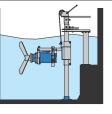


60

Dry pit horizontal installation for pumps with cooling jacket



11 Fixed installation for mixers with adjustable lifting device

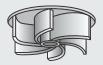


12 P

Adjustable fixed installation with pole and winch

Product Identification Code

& imp • GB • GT • MD Prop • GA	s Name Deller Type - Curved Blade Vort - Grinder Vortex / TP - Mixed With Deller - Straight Blade Vort - Agitator Voltex		XX-	3.0 • 50 I	Hz - 05 = 0.5, , 300 = 30, AC	10 = 1.0, 30 = 0 = 100 in HP ,15 = 1.5, 37 = 0 = 100 in kw	Outlet Size in mm •A = 25 •B = 32 •C = 40 •D = 50 •E = 65 •F = 80 •G = 100 •H = 125 •J = 150 •J = 200 •K = 250 •H = 350 •M = 350	Phase / Connection / Starting Method • Go hz = 3 = 1Ph, 3S-1 Ph with control panel with manual start, 4 = 3Ph / D.O.K, 6 = 3 Ph / S.D • 50 Hz = M - 1Ph, Ms - 1 Ph with control panel with manual start, T - 3 Ph / D.O.L, D - 3 Ph / S.D	- App Than Desig • 60 S = e = • 50 I 6 =	of Pole / Speed blicable Other a 2 Pole	Special Character • R - Reduced imp, RR - Further reduced, 3R - low head • A - Autometic with float switch, HF - High Flow.
	Pump Casing / agitator	Impeller	Motor housing				•N = 400 •P = 450				
С	C.I	C.I	CI				Impeller	· Type			
U	SS (304)	SS (304)	CI		V - Vortex			C - Closed single chan	nel		
s	SS (304)	SS (304)	SS (304)		multi oborre	1				
R	C.I	SS (316)	CI	' '	I - Ciosed	multi channe	I	P- Mixer propeller			
М	SS (316)	SS (316)	CI								
N	SS (316)	SS (316)	SS (316								



GB/GT series

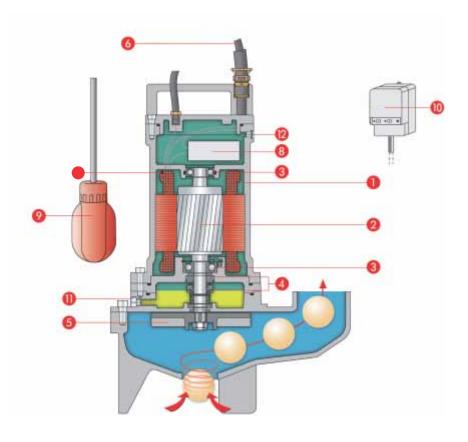


SUBMERSIBIE PUMPS

/ortex Impeller

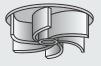
GB Series 8 - 50 HP Discharge size 1¹/_{2"} - 4" Max. solid passage in inches : 4" GT Series 4 - 7.5 HP Discharge size 1¹/_{2"} Max. solid passage in inches : ¼"

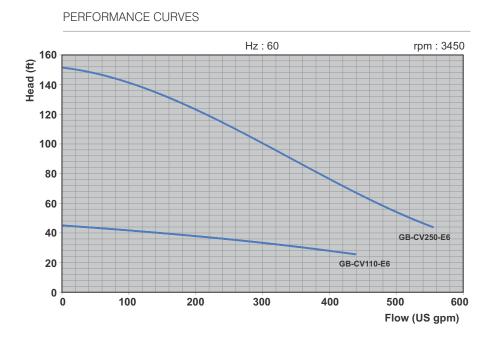
Technical Features



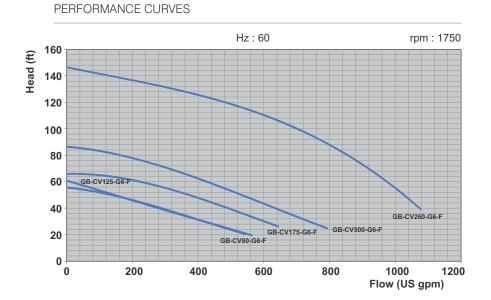
- Fully submersible pressure tight electric motor Insulation class H. Protection degree IP 68 Speed: 3450 rpm. Voltage: single-phase 1x230V-60 Hz Three-phase 230/460V, 60 Hz.
- 2. Shaft in stainless steel AISI 420
- Double mechanical seal in oil chamber + radial lipseal Water side: silicon carbide/silicon carbide Motor side: graphite/alumina
- 4. Cast iron Vortex Impeller / Stainless Steel Cutter
- 5. Cable H07RNF
- 6. Thermal overload protector on request
- 7. Float switch regulator on request
- 8. Oil inspection plug
- 9. Air plug hole for the motor watertightness control





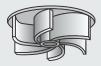


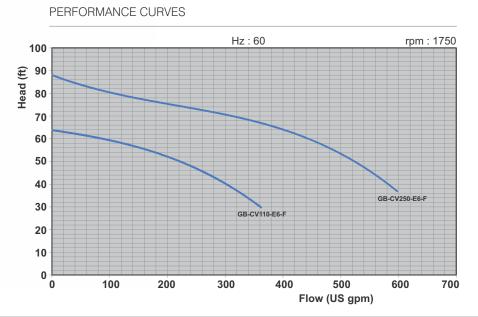
GENE	RAL FEATURES																					
SN	Туре	Rating	Frequency	Voltage	Current	Speed	DN	Ø	Weight	USGPM	0	50	100	150	200	250	300	350	400	450	500	550
SIN	Type	HP	Hz	V	amps	rpm	in.	in.	kg	m³/hr	0.0	11.4	22.7	34.1	45.5	56.8	68.2	79.5	90.9	102.3	113.6	125.0
1	GB - CV110 - E6	11	60	230	28	3450	21⁄2"	21⁄2"	118	Head	42.6	40.8	38.5	37.0	37.0	33.1	31.0	28.4	23.3	-	-	-
2	GB - CV250 - E6	25	60	460	42	3450	21/2"	21/2"	176	in feet	47.5	143.7	137.6	128.0	128.0	109.0	97.1	86.0	74.0	61.7	50.0	38.0



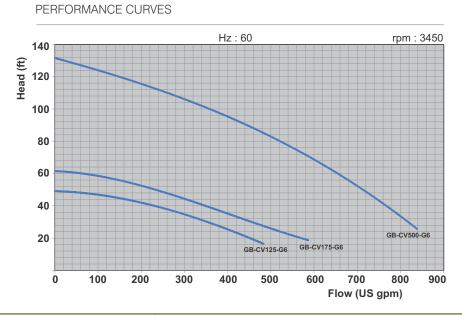
GEN	ERAL FEATURES									PERFORM	ANCES											
SN	Turne	Rating	Frequency	Voltage	Current	Speed	DN	Ø	Weight	USGPM	0	100	200	300	400	500	600	700	800	900	1000	1100
SIN	Туре	HP	Hz	V	amps	rpm	in	in	kg	m³/hr	0.0	22.7	45.5	68.2	90.9	113.6	136.4	159.1	181.8	204.5	227.3	250.0
1.	GB - CV80 - G6 - F	8	60	230	22	1750	4"	4"	118		56.1	52.2	45.9	39.0	32.2	24.6	-	-	-	-	-	-
2.	GB - CV125 - G6 - F	12.5	60	230	33	1750	4"	4"	126	lleed	61.0	54.1	46.6	39.4	32.2	24.6	20.0	-	-	-	-	-
3.	GB - CV175 - G6 - F	17.5	60	460	22	1750	4"	4"	186	Head	65.9	65.0	61.0	45.1	47.9	40.0	29.9	-	-	-	-	-
4.	GB - CV260 - G6 - F	26	60	460	26	1750	4"	4"	251	in feet	86.0	83.7	78.1	68.9	62.0	53.2	44.0	34.1	24.0	-	-	-
5.	GB - CV500 - G6 - F	50	60	460	62	1750	4"	4"	340		146.7	142.1	136.2	131.6	126.0	118.1	109.9	100.1	87.9	73.2	55.1	40.0







GEN	ERAL FEATURES					PERFORM	ANCES																
SN	Tumo	Rating	Frequency	Voltage	Current	Speed	DN	Ø	Weight	USGPM	0	50	100	150	200	250	300	350	400	450	500	550	600
SIN	Туре	HP	Hz	V	amps	rpm	in	in	kg	m³/hr	0.0	11.4	22.7	34.1	45.5	56.8	68.2	79.5	90.9	102.3	113.6	125.0	136.4
1.	GB - CV110 - E6 - F	11	60	230	24	1750	21⁄2"	21⁄2"	118	Head	64.0	62.0	59.4	56.1	51.8	46.9	40.4	30.0	-	-	-	-	-
2.	GB - CV250 - E6 - F	25	60	460	28	1750	21⁄2"	21/2"	176	in feet	88.0	84.0	80.4	78.1	75.5	72.8	70.5	67.6	64.0	59.1	53.2	45.9	37.1

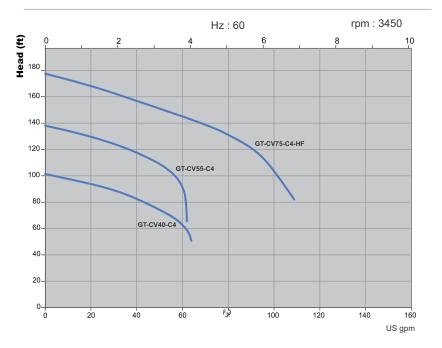


GE	NERAL FEATURE									PERFORM	IANCE																	
SN	Turne	Rating	Frequency	Voltage	Current	Speed	DN	Ø	Weight	USGPM	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
51	Туре	HP	Hz	V	amps	rpm	in	in	Kg	m³/hr	0.0	11.4	22.7	34.1	45.5	56.8	68.2	79.5	90.9	102.3	113.6	125.0	136.4	147.7	159.1	170.5	181.8	193.2
1	GB-CV125-G6	12.5	60	230	38	3450	4"	4"	240	Н	49.0	48.0	47.0	45.0	42.0	38.5	34.5	30.0	25.0	20.0	-	-	-	-	-	-	-	-
2	GB-CV175-G6	17.5	60	460	25	3450	4"	4"	330	ft	61.5	60.5	58.5	56.0	52.5	49.0	44.5	40.0	35.5	31.0	26.0	22.0	-	-	-	-	-	-
3	GB-CV500-G6	50	60	460	65	3450	4"	4"	368		132.0	128.0	124.0	120.0	116.0	110.5	106.0	101.5	95.5	89.5	83.0	76.0	69.0	60.0	52.0	43.0	34.0	25.0



PERFORMANCE CURVES

GT Series



GE	NERAL FEATURE									PERFORM	ANCES										
SN	Tuno	Rating	Frequency	Voltage	Current	Speed	DN	Ø	Weight	USGPM	0	10	20	30	40	50	60	70	80	90	100
SIN	Туре	HP	Hz	V	amps	rpm	in	in	Kg	m³/hr	0	2.2	4.5	6.8	9	11.3	13.6	15.8	18.1	20.4	22.7
1.	GT-CV40-C4	4	60	230	4.6	3450	1½	1⁄4"	48	Llaad	100.04	97.74	93.48	87.9	82	74.46	61.66	-	-	-	-
2.	GT-CV55-C4	5.5	60	230	6.5	3450	1½	1⁄4"	52.6	Head in feet	137.1	133.82	129.56	123.98	117.42	108.9	91.84	-	-	-	-
3.	GT-CV75-C4-HF	7.5	60	230	11.5	3450	1½	1⁄4"	63		176.46	173.18	167.28	163.02	156.13	150.88	144.32	139.4	131.2	119.72	103.32

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Overseas subsidiaries : India, Brazil, Bangladesh, China, Italy, Indonesia, Philippines, South Africa, Spain, Turkey, UAE, Australia, Thailand