TECHNICAL BROCHURE

B2GVPLUS R2



FEATURES

Impeller: Cast iron multi-vane vortex style, with rip vane on the back edge of the impeller for removing stringy solids.

V model designation for vortex impeller

Casing: Cast iron 2" NPT volute with volute self-cleaning design for non-clogging.

Efficient air-filled motor

Dual Mechanical Seals: For standard and Explosion Proof models, Tungsten Carbide vs. Ceramic seal faces standard on outer seals.

Carbon vs. Ceramic seal faces standard on inner seals.

Seal Sensor / High Temperature Probe: Located in motor housing. If pumpage should begin to leak past lower seal it indicates to pump control panel a fault has occurred. Requires MiniCAS device in the control panel.

Capable of running dry without damage to components.

Designed for continuous operation, when fully submerged.

Explosion-proof FM available as option. FM approved.

Shaft: Corrosion resistant, 400 series stainless steel. Taper lock and impeller bolt on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel

Grease for life bearings



2GV Plus

SUBMERSIBLE 2" SEWAGE PUMP - DUAL SEAL WITH SEAL SENSOR PROBE



APPLICATIONS

Specifically designed for the following uses:

- Sewage systems
- Dewatering/Effluent
- Water transfer
- Light industrial
- Commercial applications

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

SPECIFICATIONS

Pump:

• Maximum soft solid size: 2"

• Capacities: up to 275 GPM

• Total heads: up to 82' TDH

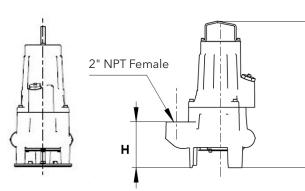
• Discharge size: 2" NPT

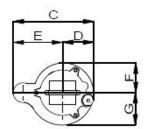
Motor:

- Maximum ambient temperature: 104° F (40° C) continuous duty
- Rated for continuous duty when fully submerged
- Insulation: Class H; XP = F Class
- 60 Hertz
- Single row ball bearings
- 400 Series stainless steel keyed shaft
- Requires overload protection in panel (not included)
- Includes high temperature sensor for winding protection

AIR-FILLED MOTOR

- Efficient heat dissipation
- Run dry capability
- Class H insulation; XP = F Class
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits and can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction for precision positioning of parts and to carry thrust loads.
- High temperature winding protection
- Cord: Severe duty rated, oil and water resistant. 30 foot standard.
- O-ring: Assures positive sealing against contaminants and oil leakage.





В

DIMENSIONS

Model Number	Phase	В	С	D	E	F	G	Н
2GV	3Ø	19.80" [503]	12.17" [309]	4.69" [119]	7.48" [190]	4.53" [115]	4.92" [125]	6.18" [157]
2GVX	3Ø	19.80" [503]	12.17" [309]	4.69" [119]	7.48" [190]	4.53" [115]	4.92" [125]	6.18" [157]

MODEL AND MOTOR INFORMATION

Model No.	Ŧ	Volts	Phase/Hz	Rated Current (Amps)	RPM	Imp. Dia. In (mm)	Insulation Class	Run Cap. (mfd/volt)	Start Cap. (mfd/ volt)	Resistance (Ohms)	Aux.Resis-tance (Ohms)	Start Current (LR Amps)	Rated Motor kVA [Code]	Rated Motor Eff. (%)	Rated Power Factor (cos phi)	Starting Torque (NM)	Max. Torque (NM)	Pump Weight (lbs.)	Cable Size with water detector and thermostats	
2GV3812AD		200		12.0		"A" 4.65" (118 mm)				0.57		61	5.6 [G]	78.6	0.89	20.0	21.0			
2GV3813AD	3.8	230		10.0						1.38		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV3814AD	(2.8 Kw)	460		5.0				N/A		5.52		32	6.8 [H]	82.7	0.84	22.0	25.0			
2GV3815AD		575		3.8	1					4.69		23	6.1 [G]	82.3	0.89	20.0	22.0			
2GV3012BD		200		10.3						0.57		61	5.6 [G]	78.6	0.89	20.0	21.0	85		
2GV3013BD	3.0 (2.2	230		8.6		"B" 4.37"			N/A	1.38		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV3014BD	(2.2 Kw)	460		4.3		(111 mm)				5.52	N/A	32	6.8 [H]	82.7	0.84	22.0	25.0		14AWG/7	
2GV3015BD		575	2/40	3.3			H C" 09"			4.69		23	6.1 [G]	82.3	0.89	20.0	22.0			
2GV2312CD		200	3/60	8.2						0.57		61	5.6 [G]	78.6	0.89	20.0	21.0			
2GV2313CD	2.3	230		6.8		"C" 4.09"				1.38		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV2314CD	(1.7 Kw)	460		3.4		(104 mm)				5.52		32	6.8 [H]	82.7	0.84	22.0	25.0			
2GV2315CD		575		7.7	,				4.69		23	6.1 [G]	82.3	0.89	20.0	22.0				
2GV1812DD		200							0.57		61	5.6 [G]	78.6	0.89	20.0	21.0				
2GV1813DD	1.8	230		6.4	6.4 3.2	"D" 3.86"				1.38		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV1814DD	(1.3 Kw)	460		3.2		(98 mm)				5.52		32	6.8 [H]	82.7	0.84	22.0	25.0			
2GV1815DD		575		2.4	3450					4.69		23	6.1 [G]	82.3	0.89	20.0	22.0			
2GV3812ADX		200		12.0	3430					0.57		61	5.6 [G]	78.6	0.89	20.0	21.0			
2GV3813ADX	3.8	230	10.0 5.0 3.8	10.0		"A" 4.65" (118 mm)				0.69		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV3814ADX	3.0	460		5.0						3.06	5	32	6.8 [G]	82.7	0.84	22.0	25.0			
2GV3815ADX		575							4.69		23	6.1 [G]	82.3	0.89	20.0	22.0				
2GV3012BDX		200		10.3		"B" 4.37"					0.57		61	5.6 [G]	78.6	0.89	20.0	21.0		
2GV3013BDX	3	230		8.6						0.69		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV3014BDX		460	4.3		(111 mm)				3.06	6	32	6.8 [G]	82.7	0.84	22.0	25.0				
2GV3015BDX		575	3/60	3.3			F	NI/A	NI/A	4.69	.69 N/A	23	6.1 [G]	82.3	0.89	20.0	22.0	84	14AWG/7	
2GV2312CDX		200	3/60	8.2			'	N/A	N/A	0.57	IN/A	61	5.6 [G]	78.6	0.89	20.0	21.0	04		
2GV2313CDX	2.3	230		6.8		"C" 4.09"	04			0.69		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV2314CDX		460		3.4		(104 mm)				3.06		32	6.8 [G]	82.7	0.84	22.0	25.0			
2GV2315CDX		575		2.6						4.69		23	6.1 [G]	82.3	0.89	20.0	22.0			
2GV1812DDX	20	200		7.7						0.57		61	5.6 [G]	78.6	0.89	20.0	21.0			
2GV1813DDX	1.8	230		6.4	1	"D" 3.86"				0.69		65	6.9 [H]	82.7	0.84	22.0	25.0			
2GV1814DDX	1.0	460		3.2		(98 mm)				3.06		32	6.8 [G]	82.7	0.84	22.0	25.0			
2GV1815DDX	575	2.4						4.69		23	6.1 [G]	82.3	0.89	20.0	22.0					

APPLICATION DATA

Maniana Madria a Bassana	75 PSI (5 bar) - Standard					
Maximum Working Pressure	150 PSI (10 bar) - Explosion Proof					
Maximum Submergence	66 feet (20 m)					
Minimum Submergence	Fully submerged for continuous operation					
Maximum Environmental Temperature	40°C (104°F) continuous operation					

CONSTRUCTION DETAILS

Power / Sensor Cable	14/7, type SOW: three phase				
Motor Cover	Gray Cast Iron - ASTM A48 Class 30				
Seal / Bearing Housing	Gray Cast Iron - ASTM A48 Class 30				
Casing	Gray Cast Iron - ASTM A48 Class 30				
Impeller	Vortex Cast Iron				
Motor Shaft	AISI 400 Series Stainless Steel				
Motor Design	Air filled Class H; XP = Class F				
Motor Overload Protection	Three Phase: require ambient compensated Class 10, quick trip overloads in the control panel.				
Motor Seal Fail / High Temp. Detection	Seal fail sensor and high temp. in motor chamber. Class 10, quick trip overloads in the control panel.				
External Hardware	300 Series Stainless steel				
Impeller Type	Vortex with pump out vanes on back shroud				
Oil Capacity - Seal Chamber	20.3 ounces				

MATERIALS OF CONSTRUCTION

Item	D N			Material						
No.	Part Na	ame		Standard						
1	Impelle	er		Cast Iron or Stainless Steel						
2	Motor	Cover		Cast Iron						
3	Shaft			400 Series SS						
4	Fasten	ers		300 Series SS						
5	Ball Be	arings		Steel						
6	Cord			SOW, 30 feet						
7	O-Ring			BUNA-N						
8	Mech. Seal	Service	Rotar	y Stationary		Elasto- mers	Metal Parts			
ď	STD	Mild	Carbon	/ Cei	amic - Upper	Nitrile or	300			
	310	abrasives	Tung. Car	b./C	eramic - Lower	Viton*	Series SS			

^{*} Depeinding on size and style.

NOMENCLATURE DESCRIPTION

1st Character - Discharge Size

2 = 2" discharge

2nd and 3rd Characters - Series/Solids Size

GV = Vortex

4th Character - HP

18 = 1.8 HP

23 = 2.3 HP

30 = 3.0 HP

38 = 3.8 HP

5th Character - Speed/RPM

1 = 60 Hz/3500 RPM

6th Character - Phase/Voltage

2 = three phase, 200 V

3 = three phase, 230 V

4 =three phase, 460 V

5 =three phase, 575 V

7th Character - Impeller Diameter

Vortex

A = 4.65"

B = 4.37"

C = 4.09"

D = 3.86"

8th Character - Cord Length

D = 30' (standard)

J = 100' (optional)

9th Character

X = Explosion Proof



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