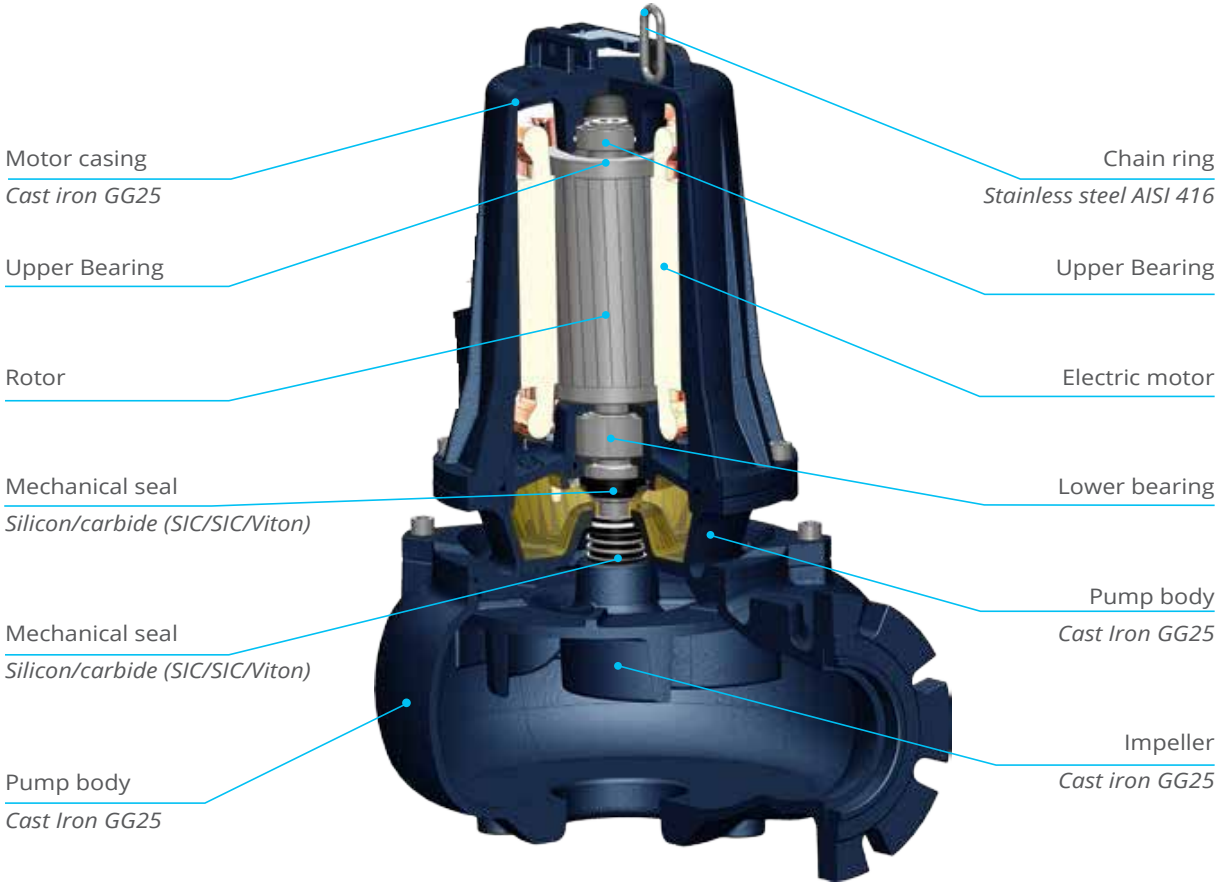


COMPONENTS & MATERIALS



TECHNOLOGY & FEATURES

V-SERIES

- Impeller**
Recessed vortex impeller granting ample solids handling thus avoiding clogging problems
- Seal Leak Detector**
The seal leak detector is certified according to the norm ATEX through safety barrier EN 60079-0, EN 60079-1 and fitted standard on all series.
- Cable Gland**
The cable gland is made of stainless steel AISI 316 and certified according to the norm ATEX EN 60079-0, EN 60079-1. Standard on all series.

ALPHA-SERIES

- Solids Handling**
Excellent free passage for up to 50mma solids
- Relay (Optional)**
For the correct operation of a float switch
- Seals**
Two mechanical seals. Motor side: carbon/ceramic (CA/CE/Viton)
Impeller side: Silicon carbide (SIC/SIC/Viton). Easily inspectionable oil chamber.

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YARDMASTER® PRODUCT RANGE

EFFLUENT PUMPS

FOR 'PROCESSED' IRRIGATION

Multi-stage Vertical
IDEAL FOR
• Floating Frames
• High efficiency /pressure
• Green water / small solids

Multi-stage Horizontal
IDEAL FOR
• Flood feed applications
• High efficiency /pressure
• Green water / small solids

Self-Priming Multi-stage
IDEAL FOR
• Shore Mounting
• High efficiency /pressure
• Green water / small solids

Progressive Cavity (PC)
IDEAL FOR
• Constant flow
• High efficiency
• Green water / small solids

NEW

Horizontal Pump
IDEAL FOR
• Flood feed applications
• High speed Irrigation or transfer pump
• Green water with solids

Vertical Pump
IDEAL FOR
• Floating Frames
• High speed Irrigation or transfer pump
• Green water with solids

Extender Pump
IDEAL FOR
• Deep Sumps
• High speed irrigation or transfer pump
• Green water with solids

Trough Pump
IDEAL FOR
• Emptying of troughs
• Water with solids

EFFLUENT PUMPS

FOR VOLUME TRANSFER

High Volume Pump
IDEAL FOR
• Volume transfer
• Green water with solids

Heavy Duty Pump
IDEAL FOR
• Volume transfer
• Liquid with solids
• Industrial applications

PTO Pump
IDEAL FOR
• Volume transfer
• Green water with solids

Submersible Pump
IDEAL FOR
• Feeding mechanical separators
• Transfer pump
• Green water with solids

STIRRERS

FOR TANKS, SUMPS & PONDS

Vertical Stirrer
IDEAL FOR
• Floating Frame mounting
• Smaller ponds or round tanks

Right Angle Stirrer
IDEAL FOR
• Floating Frame mounting
• Large ponds
• Strong agitation

Shore Mounted Stirrer
IDEAL FOR
• Shore Mounting
• Large ponds
• Safe access

Submersible Stirrer
IDEAL FOR
• Small sumps or tanks
• Easy access when fitted with a Yardmaster lifting frame

SEPARATORS

Inclined Screw Separator (YS)
IDEAL FOR
• Entry level separator
• Easiest installation in existing effluent systems
• Handles most duties
• May be used as primary separator

Rotary Drum Separator (RDS)
IDEAL FOR
• Low power requirements
• Moderate dry solids
• Low wear & maintenance

Static Screen Separator (SS)
IDEAL FOR
• No power
• No moving parts
• Can be used as primary separator

EFFLUENT MANAGEMENT

Yardmaster HALO SUPERSMART Monitoring & Control
IDEAL FOR
• Flow control for varying applications
• Control of irrigation rates
• Control by cell phone
• Flow protection

ACCESSORIES

INCLUDING
• Floating Frames, Lifting Frames & Platforms
• Trough Pump
• Inline Cutter & Blades
• Automatic Greaser
• Float Control Switch
• Headworks
• Wash Down System
• MORE

YARDMASTER® SUBMERSIBLE PUMPS



REID & HARRISON
Yardmaster®

REID & HARRISON
Pumps & Systems
Yardmaster®

BY REID & HARRISON (1980) Ltd
1 Waihou St, Matamata 3440, New Zealand. Ph: 07 888 8224
www.yardmaster.co.nz



V SERIES

POWER	DISCHARGE
1.7-3kW	DN80 - DN100

Application

The V-Series of submersible pumps are ideal for feeding a Yardmaster separator or used as a transfer pump where a high solids loading is present.

Features

All main components are manufactured from grey cast iron. Two individual mechanical seals. One on the motor side in the oil chamber. The other on the impeller side in contact with the liquid. This along with high quality components, ensures trouble free functioning and reliability of the pump.

Motor Features

- Squirrel cage motor 2 & 4 poles
- Thermal protection T1 and T2 embedded in the motor winding (to be wired to the three pole contactor in the control panel)
- Class F insulation (155°C)
- IP 68 protection
- The motor is kept cool by the liquid in which it is submerged

Limits of Use

- Max. permissible liquid temperature: 40°C with pump fully submerged
- Maximum depth of immersion: 20 m
- Permissible pH value: 6-11
- Suitable for liquids with density <1,100 kg/m3
- Allowed voltage: 230/400V±5%
- Allowed frequency: 50Hz ±2%



ALPHA SERIES

POWER	DISCHARGE
0.28 - 2.2kW	G1”1/4 - G2”

Application

The Alpha series of submersible pumps are ideal for feeding a Yardmaster separator where a moderate solids loading is present along with a lower flow requirement. These pumps are also suitable as an underpass pump.

Features

All main components are manufactured from grey cast iron. Two individual mechanical seals. One on the motor side in the oil chamber. The other on the impeller side in contact with the liquid. This along with high quality components, ensures trouble free functioning and reliability of the pump.

Motor Features

- Squirrel cage motor 2 pole
- Thermal protection in the motor winding (only with RHAAlphaEVO60T and RHAAlphaPRO55T)
- Class F insulation (155°C)
- IP 68 protection
- The motor is kept cool by the liquid in which it is submerged

Limits of Use

- Max. permissible liquid temperature: 40°C with pump fully submerged
- Maximum depth of immersion: 20m
- Permissible pH value: 6-11
- Suitable for liquids with density <1,100 kg/m3
- Allowed voltage: 230/400V±5%
- Allowed frequency: 50Hz ±2%

SUBMERSIBLE SPECIFICATIONS

No	Pump	Delivery	Free Passage	kW		HP	RPM 1/min	A		Float Switch Opitonal	Type	Cables		Foot	Weight (kg)	Impleller Ø (mm)
				P1	P2			3 Phase - 400V	1 Phase - 230V			Cross Section	Length (m)			
1	RHV080152344	DN80 PN16	80mm	2.8	2.2	3	1450	5.2			H07RN8F	4x1.5+3x0.5 Ø15		RHP5	68	190
2	RHV080152345			3.8	3	4		7.2							69	207
4	RHV100152348			2.1	1.7	2.3		3.9							70	155
5	RHV100152349	DN100 PN16	100mm	2.8	2.2	3		5.2						RHP5	71	190
6	RHV100152350			3.8	3	4		7.2							74	207
7	RHAlphaC1M			0.33	0.28	0.4			1.9	✓					11	90
8	RHAlphaEVO2M	G 2”	35mm	0.77	0.56	0.75	2850		4	✓		3x1Ø9	10	N/A	15.5	96
9	RHAlphaEVO32M		40mm	0.95	0.75	1			5.2	✓					16.5	104
10	RHAlphaEVO60T		50mm	2.6	2.2	3		5.2				4x1.5+2x0.5 Ø12			26	125
11	RHAlphaEVO55MG		45mm	2.1	1.5	2			9.9	✓		3x1 Ø9			21	120
12	RHAlphaEVO55T			2.1	1.5	2		3.6				4x1 Ø10				120
13	RHAlphaPRO55T			1.8	1.5	2		3.7				4x1.5+2x0.5 Ø12			26	110
			50mm													

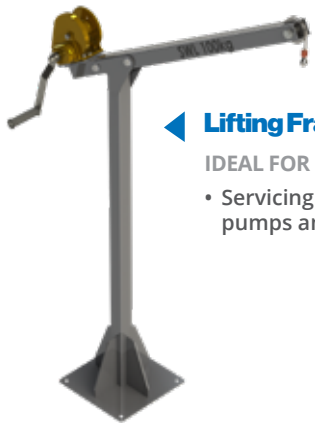
No	Pump	I/s l/m m3/h	1 60 3.6	2 120 7.2	4 240 14.4	6 360 21.6	8 480 28.8	12 720 43.2	16 960 57.6	20 1200 72	24 1440 86.4	28 1680 100.8	32 1920 115.2
1	RHV080152344	Head (m)	10	9.5	9.2	8.5	8	6.8	5.5	4.5	3.2	2	
2	RHV080152345		12.5	12	11.5	10.5	10	8.8	7.5	6.2	4.8	3.5	2
4	RHV100152348		5.5	5.4	5	4.6	4.2	3.5	3	2.2			
5	RHV100152349		7.7	7.5	7	6.5	6	5	4.5	3.5	2.5		
6	RHV100152350		10	9.3	9	8.8	8.5	7	6	5	4	3	2
7	RHAlphaC1M		4.6	2.2	10								
8	RHAlphaEVO2M		8	6	2								
9	RHAlphaEVO32M		9.5	8.5	6.5	4.5	2						
10	RHAlphaEVO60T		16.5	15.5	13.5	11	8						
11	RHAlphaEVO55MG		13.5	12.5	10	7.5	4.2						
12	RHAlphaEVO55T		13.5	12.5	10	7.5	4.2						
13	RHAlphaPRO55T		13.5	12.5	10.5	8	5.5						

Optional Accessories

Pump	Flanged Hose Connection
RHV080152	RHN2
RHV100152	RHN3
RHA100152	RHN3



The Foot Stand and Flanged Hose Connection (illustrated) are optional extras



Lifting Frames

IDEAL FOR
• Servicing Submersible pumps and stirrers

Due to continuous product development, Reid & Harrison reserve the right to change specification without notice. Performance figures are based on average test results from production pumps. Specific performance test curves can be supplied against order

PERFORMANCE CURVES

