

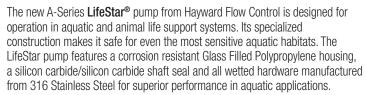
A-Series LifeStar® Aquatic Pump Guide



A-Series LifeStar® Aquatic Pump

1/2, 3/4, 1, 1-1/2, 2, 3, 5 HP





The Hayward LifeStar pump is a self-priming, energy efficient and fully rated single speed premium pump that provides high flow rates and reduced energy consumption. The integral, no-rib basket traps debris and prevents solids from damaging pump or downstream components. The clear trap cover incorporates 1/4 turn sealing for fast and efficient maintenance in tight quarters.



KEY FEATURES AND BENEFITS

- Ideal for Sensitive Aquatic Environments or Salt Water Systems
- All Wetted Hardware Manufactured from 316 Stainless Steel
- Silicon Carbide/Silicon Carbide Shaft Seal Suitable for Fresh and Salt Water Use
- Corrosion Resistant Housing
- Self-Priming Pump
- Suitable For High Volume Pumping
- Clear High Capacity Basket Strainer Lid for Visual Inspection
- Elevated Base Ensures Better Ventilation and Protection from Flooding
- Perforated HDPE Basket

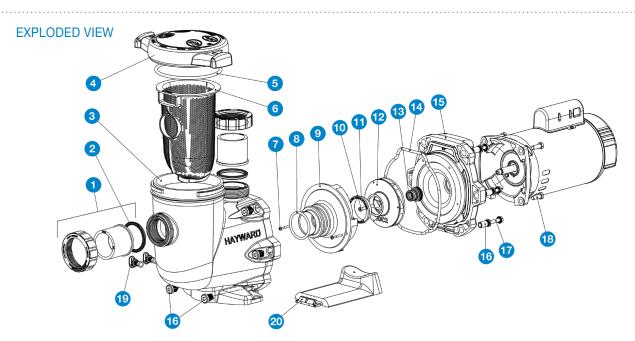


TYPICAL APPLICATIONS

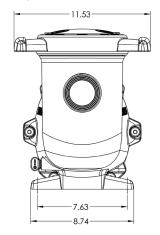
- Aquatic and Animal Life Support
- Aquaculture
- Research and Science
- Salt Water Systems

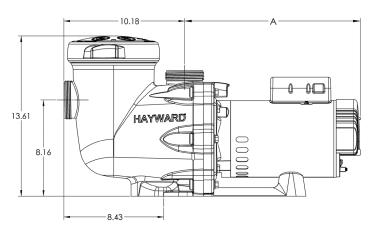






A SERIES DIAGRAM





A SERIES DIMENSIONS

	RATED HP	DIM A						
		1 PHASE - ODP in / mm	3 PHASE - ODP in / mm	3 PHASE - TEFC in / mm				
	1/2	13-5/8 / 346		13-13/16 / 351				
	3/4	13-7/8 / 352		14-3/16 / 360				
	1	14-3/8 / 365		14-11/16 / 373				
	1-1/2	14-7/8 / 378		15-5/16 / 389				
	2	14-7/8 / 378		15-5/8 / 397				
	3	17-1/8 / 435		16-1/16 / 408				
	5	17-1/8 / 435	17-1/8 / 435					

Dimensions are subject to change without notice - consult factory for installation information.

AVAILABLE SPARE PARTS

- True Union Connections
- Seals
- Hardware
- Strainer Cover and Basket
- Shaft Seal
- Seal Plate
- Impellers
- Base Risers

PARTS LIST

- 1. True Union Connection and Nut with O-Ring
- 2. Union Gasket
- 3. Pump Strainer Housing
- 4. Strainer Cover
- 5. Strainer Cover O-Ring
- 6. Strainer Basket
- 7. Diffuser Screw
- 8. Diffuser O-Ring

- 9. Diffuser
- 10. Impeller Screw
- 11. Impeller Ring
- 12. Impellers with Impeller Screws
- 13. Shaft Seal Assembly
- 14. Housing O-Ring
- 15. Seal Plate

- 16. Housing Insert/Seal Plate Spacer
- 17. Housing Bolt
- 18. Motor Bolt
- 19. Drain Plug with O-Ring
- 20. Bracket, Motor Support





SPECIFICATIONS

HOUSING: Glass Filled Polypropylene

CONNECTIONS: 2" True Union Socket

MOTOR SHAFT: 303 SS (Non-Wetted)

SHAFT FACE SEAL: Silicon Carbide/Silicon Carbide

SHAFT SECONDARY SEAL: EPDM

ALL WETTED HARDWARE: 316 SS (Impeller Insert, Impeller Screw and 2 Diffuser Screws)

MAIN HOUSING GASKET: EPDM

MOTOR BOLTS: 316 SS

HOUSING BOLTS: 316 SS

MOTORS: Single Phase/Three Phase - Open Drip Proof (ODP)

Three Phase - Totally Enclosed Fan Cooled (TEFC)

STRAINER BASKET: HDPE

TECHNICAL SPECS AND PERFORMANCE DATA

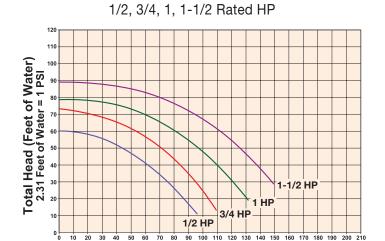
DESCRIPTION	RATED HP	TRUE UNION SOCKET CONNECTORS	SERVICE FACTOR	VOLTAGE SUPPLY	PHASE	MOTOR FRAME
1/2 HP	1/2	2"	1.99	115/208-230	1	ODP
Aquatic Pump				208-230/460	3	TEFC
3/4 HP	3/4	2"	1.85	115/208-230	1	ODP
Aquatic Pump				208-230/460	3	TEFC
1 HP	1	2"	1.85	115/208-230	1	ODP
Aquatic Pump				208-230/460	3	TEFC
1-1/2 HP	1-1/2	2"	1.60	115/208-230	1	ODP
Aquatic Pump				230/460	3	TEFC
2 HP	2	2"	1.35	208-230	1	ODP
Aquatic Pump				230/460	3	TEFC
3 HP	3	2"	1.20	208-230	1	ODP
Aquatic Pump				230/460	3	TEFC
5 HP	5	2"	1.00	208-230	1	ODP
Aquatic Pump				230/460	3	ODP

SAMPLE SPECIFICATION

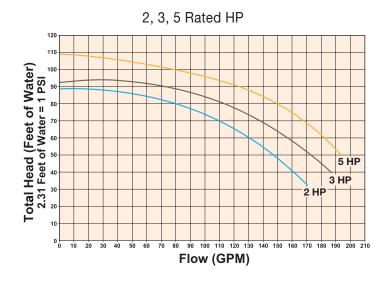
All centrifugal, life-support pumps (1/2 hp - 5 hp) shall have glass filled polypropylene bodies conforming to ASTM D4101, Cell Classification 85580. All seals and 0-rings shall be EPDM. The primary pump mechanical-seal must be silicon carbide/silicon carbide. The pump must contain an integral basket strainer and a clear lid for visual inspection of the basket during operation. All wetted hardware must be 316 stainless steel only. Inlet and outlet port connections shall be true-union to allow quick installation and/or pump removal. Pump shall be self-priming to avoid cavitation. Motors to be Single and Three Phase ODP or Three Phase TEFC.

Pumps shall be LifeStar-series manufactured by Hayward Flow Control products. Pumps shall carry a 2-year warranty.

PUMP PERFORMANCE CURVES



Flow (GPM)



Additional Hayward Aquatic Products

LS SERIES AQUATIC SAND FILTER

KEY FEATURES

- Ideal for Sensitive Aquatic Environents or Salt Water Systems
- Integral Molded Drain Plug
- Integral Top Diffuser
- Efficient, Multilateral Underdrain Assembly
- Durable Flanged Inspection Cover
- Corrosion Resistant Thermoplastic Housing and Base
- All Wetted Hardware Manufactured from 316 Stainless Steel

FLV SERIES BAG AND CARTRIDGE FILTERS

KEY FEATURES

- Platinum Glass Filled Polypropylene Material
- One-Piece Injection Molded Construction with True Union Connections
- Hand Removable Ergonomic Cover with Liquid Displacing Dome
- Vent Valve on Cover Included
- In-Line or Loop Configuration
- Integral Mounting Base
- Available for Bags or Cartridges



WCV SERIES FULL PATTERN WAFER CHECK VALVES

KEY FEATURES

- Robust Wide Pattern Body -No Need for Spacers or Specialty Flanges
- PVC or CPVC Body
- One-Piece Disc and Shaft Design
- FPM or EPDM Gasket and Face Seal
- Designed for ANSI150 and PN10 Flanges
- High Cv Rating Equal to Metal Check Valves

R SERIES MAGNETIC DRIVE PUMPS

KEY FEATURES

- HP Rating from 1/3 to 5
- GFPP and Carbon Reinforced ETFE Materials
- Low Friction Operation
- Easy Maintenance, No Special Tools
- · Seal-Less Design



SB SERIES BASKET STRAINERS

KEY FEATURES

- PVC, CPVC, GFPP and Eastar® Materials
- True Union End Connections
- Ergonomic Hand Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- PVC, CPVC and PP Baskets Standard
- NSF/ANSI 61 Listed (PVC and CPVC)



BYV SERIES BUTTERFLY VALVES

KEY FEATURES

- One Piece Injection Molded PVC, CPVC or GFPP Body
- Size Range 2" 12"
- PVC, CPVC or GFPP Hydro-dynamic Disc
- Viton®, EPDM and Nitrile Seat Materials
- Available with 316SS Overmolded Lugs
- Hand Lever with 19 Lockable Stop positions
- All Sizes Meet ANSI B16.10 / ISO 5752 Narrow Face-to-Face Dimensions



ASP0914