Please read and save this Repair Parts Manual. Read this manual and the General Operating Instructions carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. The Safety Instructions are contained in the General Operating Instructions. Failure to comply with the safety instructions accompanying this product could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton® Vertical Multistage Centrifugal Pumps

Description

The Dayton in-line centrifugal pumps are designed for a wide range of applications involving the transfer of liquids, circulation and pressure boosting of hot or cold clean water and any thin, non-explosive liquids which do not contain any solid particles or fibers and those liquids that do not attack chemically, the pump material of construction.

The typical areas where the vertical inline pumps are widely used is as under, fire fighting systems, pressure boosting and municipal water supply, boiler feed and condensate systems, cooling water systems and irrigation.

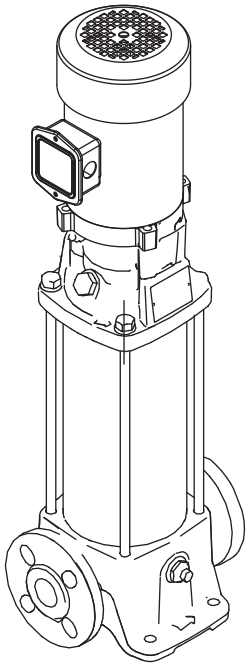

Figure 1

Specifications

Liquid Temperature.....248°F max
Liquid Viscocity.....100 SSU max
Max. Case Pressure.....362 psi
Impeller Type.....Closed
Seal Type.....Bellow Type (SIC/CARBON, Stainless steel, EPDM)
Flange Connection.....Class 250 as per ANSI B 16.1
Speed.....3450 RPM
Motor.....Totally Enclosed Fan Cooled Construction (56 C Frame) and are rated for continous operation
Ambient temperature.....104°F
Frequency.....60Hz
Single Phase.....Capacitor Start and includes overload protection
Three Phase.....Must be installed with magnetic starter which provides 3 leg protection.

Models						Service	Port Size		
Cast Iron	Stainless Steel	HP	Phase	Voltage	Amps	Factor	Suction	Discharge	Stages
5UWH5	5UWK1	0.5	1	115/208-230	8.6/4.0-4.3	1.15	1-¼"	1-¼"	2
5UWH6	5UWK2	0.5	3	208-230/460	1.7-1.6/0.8	1.15	1-¼"	1-¼"	2
5UWH7	5UWK3	0.75	1	115/208-230	10.7/5.2-5.3	1.15	1-¼"	1-¼"	2
5UWH8	5UWK4	0.75	3	208-230/460	2.5-2.4/1.2	1.15	1-¼"	1-¼"	2
5UWH9	5UWK5	0.75	1	115/208-230	10.7/5.2-5.3	1.15	1-¼"	1-¼"	3
5UWJ0	5UWK6	0.75	3	208-230/460	2.5-2.4/1.2	1.15	1-¼"	1-¼"	3
5UWJ1	5UWK7	1	1	115/208-230	12.2/6.3-6.1	1.15	1-¼"	1-¼"	5
5UWJ2	5UWK8	1.5	1	115/208-230	13.5/7.6-6.7	1.15	1-¼"	1-¼"	8
5UWJ3	5UWK9	2	1	115/208-230	16.6/9.4-8.3	1.20	1-¼"	1-¼"	11
5UWJ4	5UWL0	3	1	230	12.5	1.00	1-¼"	1-¼"	17
5UWJ5	5UWL1	2	1	115/208-230	16.6/9.4-8.3	1.20	1-¼"	1-¼"	5
5UWJ6	5UWL2	3	1	230	12.5	1.00	1-¼"	1-¼"	9
5UWJ7	5UWL3	1	3	208-230/460	3.3-3.2/1.6	1.15	1-¼"	1-¼"	5
5UWJ8	5UWL4	1.5	3	208-230/460	4.5-4.6/2.3	1.15	1-¼"	1-¼"	8
5UWJ9	5UWL5	2	3	208-230/460	6.0-5.8/2.9	1.20	1-¼"	1-¼"	11
5UWK0	5UWL6	3	3	208-230/460	8.3-7.6/3.8	1.15	1-¼"	1-¼"	17

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ENGLISH

ESPAÑOL

FRANÇAIS

Dayton® Vertical Multistage Centrifugal Pumps

Pump Material

Table 1

Models	Impeller	Shaft	Bowl	Base	Outer Sleeve	Mechanical Seal
Cast Iron						
5UWH5	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWH6	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWH7	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWH8	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWH9	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ0	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ1	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ2	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ3	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ4	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ5	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ6	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ7	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ8	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWJ9	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK0	S.S.304	S.S.316	S.S.304	Cast Iron	S.S.304	SIC/CARBON, Stainless steel, EPDM
Stainless Steel						
5UWK1	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK2	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK3	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK4	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK5	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK6	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK7	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK8	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWK9	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL0	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL1	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL2	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL3	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL4	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL5	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM
5UWL6	S.S.304	S.S.316	S.S.304	S.S.304	S.S.304	SIC/CARBON, Stainless steel, EPDM

Note : S.S. = Stainless Steel, SIC/SIC = Silicon Carbide/Silicon Carbide

Performance

Table 2

Models				Gallons per Minute At Pressure in PSI											Max. Pressure
Cast Iron	Stainless Steel	HP	Phase	10	20	40	60	80	100	120	140	160	180	200	(PSI)
5UWH5	5UWK1	0.5	1	21	12	-	-	-	-	-	-	-	-	-	27
5UWH6	5UWK2	0.5	3	21	12	-	-	-	-	-	-	-	-	-	27
5UWH7	5UWK3	0.75	1	40	20	-	-	-	-	-	-	-	-	-	27
5UWH8	5UWK4	0.75	3	40	20	-	-	-	-	-	-	-	-	-	27
5UWH9	5UWK5	0.75	1	*	19	-	-	-	-	-	-	-	-	-	40
5UWJ0	5UWK6	0.75	3	*	19	-	-	-	-	-	-	-	-	-	40
5UWJ1	5UWK7	1	1	*	*	17	6	-	-	-	-	-	-	-	66
5UWJ2	5UWK8	1.5	1	*	*	22	19	14	5	-	-	-	-	-	108
5UWJ3	5UWK9	2	1	*	*	*	22	19	16	12	4	-	-	-	148
5UWJ4	5UWL0	3	1	*	*	*	*	*	22	20	18	16	13	10	230
5UWJ5	5UWL1	2	1	*	*	35	14	-	-	-	-	-	-	-	70
5UWJ6	5UWL2	3	1	*	*	*	42	35	25	9	-	-	-	-	127
5UWJ7	5UWL3	1	3	*	*	17	6	-	-	-	-	-	-	-	66
5UWJ8	5UWL4	1.5	3	*	*	22	19	14	5	-	-	-	-	-	108
5UWJ9	5UWL5	2	3	*	*	*	22	19	16	12	4	-	-	-	148
5UWK0	5UWL6	3	0	*	*	*	*	*	22	20	18	16	13	10	230

(*) Operating pump at or below indicated levels is not recommended and can cause motor damage and/or over heat.

Cast Iron Models 5UWH5 thru 5UWH9, 5UWJ0 thru 5UWJ9 and 5UWK0 Stainless Steel Models 5UWK1 thru 5UWK9 and 5UWL0 thru 5UWL6

Dimensions (Inches)

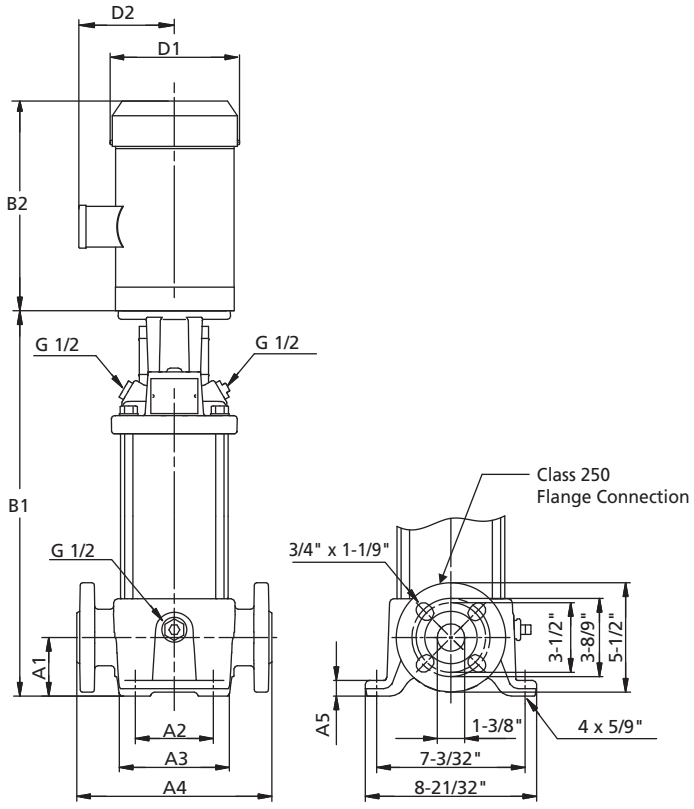


Figure 2

Table 3

Cast Iron Models	Stages	B1	B2	D1	D2	A1	A2	A3	A4	A5
5UWH5	2	11-3/32″	10- 51/ 64″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWH6	2	11-3/32″	9- 51/ 64″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWH7	2	11-51/64″	11- 13/ 32″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWH8	2	11-51/64″	10- 13/ 64″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWH9	3	11-51/64″	11- 13/ 32″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ0	3	11-51/64″	10- 13/ 64″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ1	5	11-13/64″	12- 13/ 64″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ2	8	15-13/32″	11″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ3	11	17-1/2″	11- 19/ 32″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ4	17	21-45/64″	12- 51/ 64″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ5	5	15″	11- 19/ 32″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ6	9	19-19/64″	12- 51/ 64″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ7	5	13-13/64″	11- 13/ 32″	6- 19/ 64″	4- 29/ 32″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ8	8	15-13/32″	10- 13/ 32″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWJ9	11	17-1/2″	11″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″
5UWK0	17	21-45/64″	11-51/64″	7- 19/ 64″	5- 19/ 64″	2- 61/ 64″	3- 15/ 16″	5- 35/ 64″	9- 27/ 32″	51/64″

Dayton® Vertical Multistage Centrifugal Pumps

Dimensions (Inches)

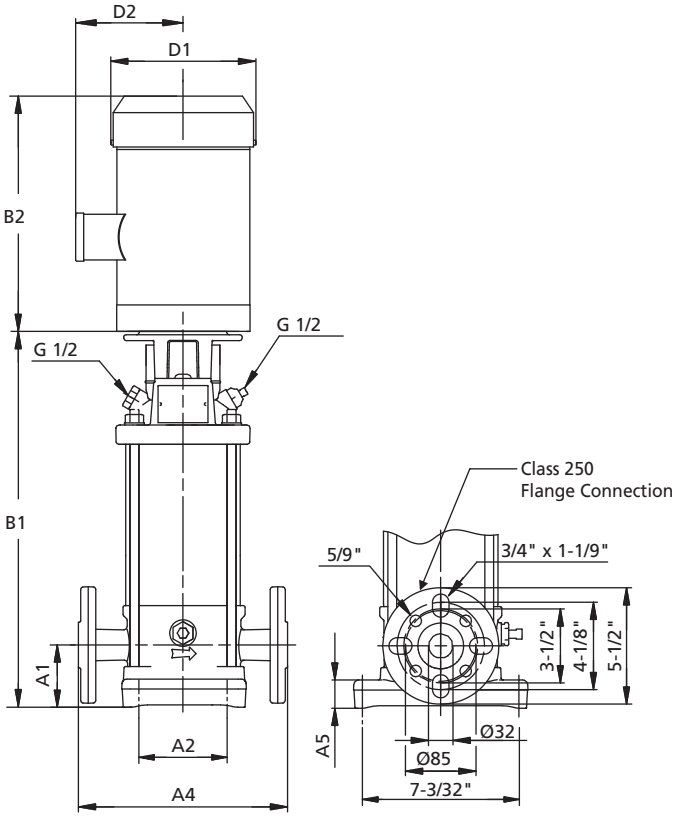


Figure 3

Stainless Steel Models	Stages	B1	B2	D1	D2	A1	A2	A4	A5
5UWK1	2	11-3/32″	10- 51/ 64″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK2	2	11-3/32″	9- 51/ 64″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK3	2	11-51/64″	11- 13/ 32″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK4	2	11-51/64″	10- 13/ 64″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK5	3	11-51/64″	11- 13/ 32″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK6	3	11-51/64″	10- 13/ 64″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK7	5	11-13/64″	12- 13/ 64″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK8	8	15-13/32″	11″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWK9	11	17-1/2″	11- 19/ 32″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL0	17	21-45/64″	12- 51/ 64″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL1	5	15″	11- 19/ 32″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL2	9	19-19/64″	12- 51/ 64″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL3	5	13-13/64″	11- 13/ 32″	6- 19/ 64″	4- 59/ 64″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL4	8	15-13/32″	10- 13/ 32″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL5	11	17-1/2″	11″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″
5UWL6	17	21-45/64″	11-51/64″	7- 19/ 64″	5- 5/ 16″	2- 61/ 64″	3- 15/ 16″	9- 27/ 32″	1- 11/ 32″

Cast Iron Models 5UWH5 thru 5UWH9, 5UWJ0 thru 5UWJ9 and 5UWK0 Stainless Steel Models 5UWK1 thru 5UWK9 and 5UWL0 thru 5UWL6

General Operating Instructions Safety Information

Please read this before installing or operating pump. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols:

Note : Indicates special instructions which are important but not related to hazards.

IMPORTANT: Indicates factors concerned with assembly, installation, operation, or maintenance which could result in damage to the machine or equipment if ignored.

⚠ CAUTION ***Warns about hazards that will or can cause minor personal injury or property damage if ignored.***

⚠ WARNING ***Warns about hazards that can cause severe personal injury, death, or major property damage if ignored.***

⚠ DANGER ***Warns about hazards that will cause serious personal injury, death, or major property damage if ignored.***

Installation

⚠ WARNING ***Hazardous voltage. Voltage can shock, burn, or cause death. Please ground the pump motor correctly as per applicable National Electrical Code (NEC) or applicable Canadian Electrical Code (CEC) or before connecting to power supply***

⚠ WARNING ***Please do not connect the power supply before proper and complete installation of the pump.***

Location

Locate the pump in a dry, well-ventilated area which is not subject to either extreme weather conditions or extreme variation in temperature. The pump should be mounted a minimum of 6" clear of any obstruction for motor maintenance and also away from hot surface for adequate air supply for smooth functioning of motor. The maximum ambient air temperature surrounding the motor should not be more than 104°F (40°C). For applications involving pumps to work with suction lift from open systems, it is recommended to Locate the pump as close to the water source for smooth operation of the unit.

Foundation

The pump foundation should be of concrete or a similarly rigid foundation to form a secure and stable mounting base for the unit. The pump should be secured to a solid foundation using bolts through the holes in the flange or the base plate. Kindly refer the dimensions table 3 of 4 for bolt hole center line dimensions of the pump base. Be sure that all four pads on the base are properly supported Shim the pump base to assure that the pump is in level. The pump should not operate on uneven surfaces.

While installing the pump please follow the procedure as shown below to avoid any damage to the pump.

Table 4

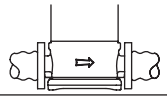
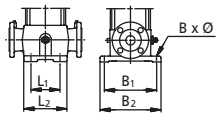
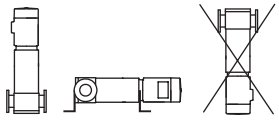
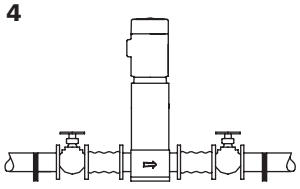
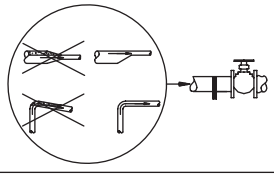
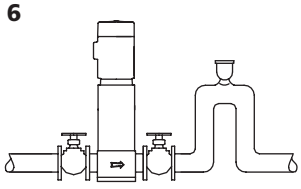
Step	Action
1 	Arrows on the pump base show the direction of flow of liquid through the pump.
2 	This information is stated on page 2. • port-to-port lengths • dimensions of the base • pipework connections • diameter and position of foundation bolts.
3 	The pump can be installed vertically or horizontally. Ensure that an adequate supply of cool air reaches the motor cooling fan. However, the motor must never fall below the horizontal plane.
4 	To minimize possible noise from the pump, it is advisable to fit expansion joints either side of the pump and anti-vibration mountings between foundation and pump. Isolating valve should be fitted either side of the pump to avoid draining the system if the pump needs to be cleaned, repaired or replaced. The pump must always be protected against back flow by means of a non-return valve (foot valve).
5 	Install the pipes so that air locks are avoided, especially on the suction side of the pump.
6 	In the case of installation in which: • The discharge pipe slopes downwards away from the pump, • There is a risk of siphon effect, • Protection against back flow of unclean liquids is necessary, A vacuum valve must to be fitted close to the pump.

Figure 4

ENGLISH

Dayton® Vertical Multistage Centrifugal Pumps

Piping

⚠ WARNING ***Please do not run the pump with a closed discharge valve, the fluid within may boil and there lies a risk of explosion.***

The suction pipe should be adequately sized and run as straight and short as possible. In case of flooded suction condition appropriate valves should be used to isolate the pump. Unnecessary fittings, valves and accessories which induces pressure loss should be avoided on suction as well as discharge piping. There should be no air locks within the suction piping system. All the piping should be thoroughly cleaned before installation.

Note: Pipes, valves and fittings must have a pressure rating that is equal to or greater than the maximum system pressure

The discharge piping should be pressure checked so that it meets the requirements of codes and local regulations. It is recommended to install a check valve in the discharge piping to prevent back flow of the fluid from the reservoir.

The piping should be independently supported to avoid the stresses, from getting transferred to the pump. Appropriate arrangement should be made to avoid the effects of piping system expansion and contraction due to temperature variations from getting transferred to pump. It is advised to install pressure gauges both on the suction as well as discharge side of the pump.

Electrical

⚠ WARNING ***Hazardous voltage. Can shock, burn or cause death. All wiring and electrical work should be performed by a qualified electrician in accordance with the National Electrical Code and/or all applicable local codes and regulations.***

Please make sure that the motor voltage, phase, and frequency match the incoming electrical supply. The proper operating voltage and other electrical information can be found on the motor nameplate.

Please ground the pump and motor before connecting it to the power supply and follow all the wiring instructions when connecting the motor to the power lines.

The electrical connection should be carried out as shown in the wiring diagram inside the terminal box cover. The motor must be connected to an external mains switch with a minimum contact gap of 3 mm in all poles.

Terminal Box

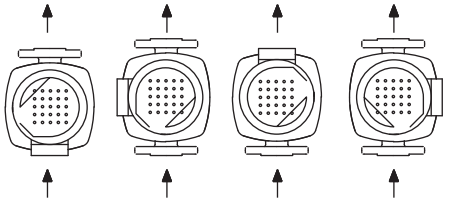


Figure 5 - Terminal box positions

Please disconnect the power supply to the motor before removing the terminal box cover or before making an attempt to dismantle the pump. The motor terminal box can be turned to any of four positions in steps of 90° as shown in figure 5. If necessary, remove the coupling guards but do not remove the coupling. Then remove the bolts securing the motor to the pump. Turn the motor to the required position. Replace and tighten the bolts. Replace the coupling guards.

Motor Protection

The three phase motors should be used with an appropriate size and type of motor starter for protection against potential damage that may arise due to low voltage, current imbalances, phase failures and overloads. The overload should be sized and adjusted to trip at the full-load current rating of the motor. If set at a value higher than the full load current rating of the motor it will void the warranty.

Operation

⚠ WARNING ***Ground the pump and motor correctly before connecting to power supply as per National Electrical Code (NEC) in the U.S., or the Canadian Electrical Code (CEC), as applicable. Voltage can shock, burn or cause death.***

Priming

⚠ WARNING ***Please do not run the pump with the discharge valve closed; the water in the pump may boil, causing risk of explosion and steam burns to anyone nearby.***

NOTICE ***Please do not run the pump until it is completely filled with liquid and vented. Please never operate the pump dry.***

If the water source is above the pump, close the pump isolation valve(s) and open the priming plug. Gradually open the isolation valve in the suction line until all the air from within the pump is moved out and a steady stream of water runs out of the priming port. Please close the plug and securely tighten it. The isolation valves can now be opened.

In case of open systems where the water level is below the pump inlet, the suction pipe and pump must be filled with liquid and vented of air before starting the pump. The discharge isolation valve can be closed and the priming plug be removed. Pour the water through the priming hole in the pump until the suction pipe and pump are completely filled with liquid. In case the suction pipe is not having a downward slope from the pump towards the water level, the air must be purged while being filled. Secure the priming plug tightly

Cast Iron Models 5UWH5 thru 5UWH9, 5UWJ0 thru 5UWJ9 and 5UWK0
Stainless Steel Models 5UWK1 thru 5UWK9 and 5UWL0 thru 5UWL6

Operation (Continued)

Startup

⚠ WARNING ***Please donot run the pump dry and donot start the pump until it has been filled with liquid and vented. The pump bearings and the shaft seal may be damaged.***

⚠ WARNING ***Please watch the direction of the priming plug and make sure that the liquid escaping from it does not cause injury to persons nearby or damage the motor or other components. In hot water installations, pay particular attention to the risk of injury from scalding hot water.***

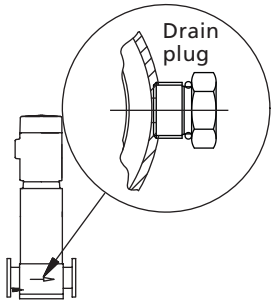
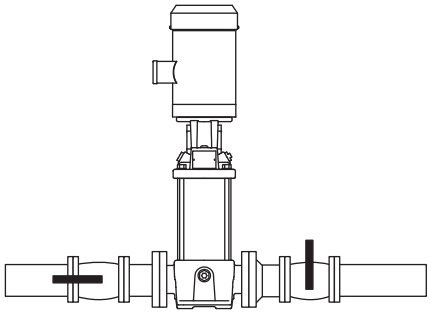


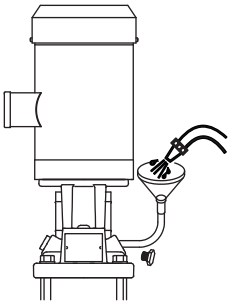
Figure 6 - Location of drain plug

ENGLISH

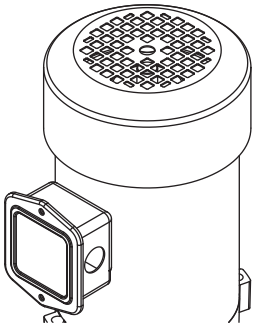
Start-up instructions (Figure 7)



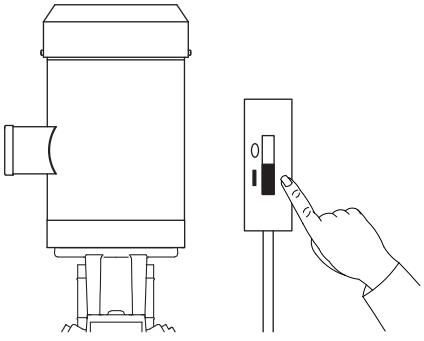
1. Close the isolating valve on the discharge side and open air-vent valve. Then open isolating valve on the suction side.



2. Remove the priming screw from the pump head and slowly fill the pump with liquid. Replace the priming plug and tighten securely.



3. See the correct direction of rotation of the pump on the motor fan cover.

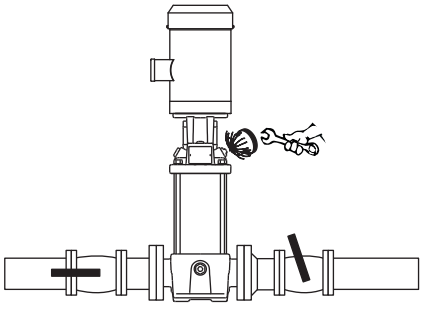


4. Start the pump and check the direction of rotation.

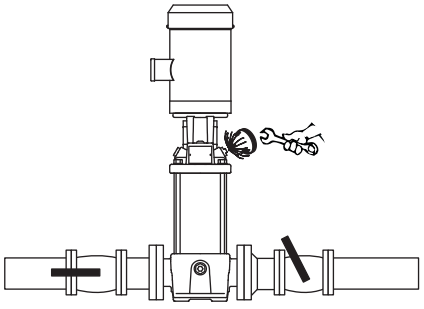
Dayton® Vertical Multistage Centrifugal Pumps

Operation (Figure 7 Continued)

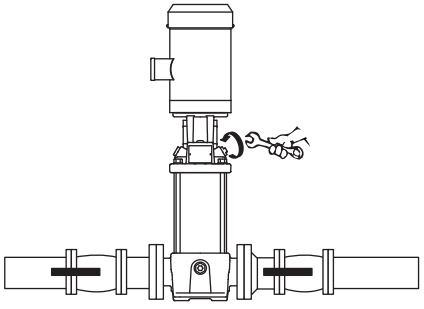
Start-up instructions



5. Vent the pump by means of the vent valve in the pump head. At the same time, open the discharge isolating valve a little.



6. Continue to vent the pump. At the same time, open the discharge isolating valve a little more.



7. Close the vent valve when a steady stream of liquid runs out of it. Completely open the discharge isolating valve

Direction of rotation.

Please ascertain the direction of rotation only after the pump has been filled with liquid. The pump should rotate clockwise when seen from the motor end of pump. Remove the coupling guard and rotate the pump shaft by hand to ascertain that it turns freely. If the fan is visible turn on and off to verify rotation.

If the rotation is not clockwise then follow the steps mentioned below.

1. Please switch OFF the power supply.
2. Verify that the electrical connections are in accordance with the wiring diagram on the motor.
3. To reverse the direction of rotation, interchange any two power leads at the load side of the starter in a three-phase motor and on a single-phase motor, please see the connection diagram on nameplate for verification.
4. Turn ON the power supply and recheck the direction of motor rotation
5. For initial starting please ensure that the suction isolation valve if installed is completely open and the discharge valve is almost closed.
6. The pump can now be started.
7. While the piping system has been filled with liquid, please open the discharge isolation valve slowly until it is completely open. If the valve is open too fast then it may result in water hammer in the discharge pipe. If the pump or the system starts then the pump may be cavitating. To overcome this and to avoid damage to the pump, please reduce the flow through the discharge isolation valve until the rattling stops. If this reduces the flow through the discharge, the system designer or installer should be contacted.

Maintenance

Motor bearings

Motors which are not fitted with grease nipples are maintenance free. In the case of seasonal operation (motor is idle for more than 6 months of the year), it is recommended to grease the motor when the pump is taken out of operation.

Regular Maintenance Checks

The following checks should be made at regular intervals depending on the conditions and time of operation,

1. The pump meets required performance and operates smoothly and quietly.
2. The motor is not overheating.
3. There are no leaks especially at the shaft seals.
4. Check motor power consumption when in operation.
5. Verify the motor overload protection device functioning.
6. Remove and clean all strainers and filters in the system.
7. Pump wear rings and shaft require no regular maintenance.
8. In case the pump is not operated for unusually long periods, the unit should be maintained in accordance with the instructions as mentioned and if the pump is not drained then the pump shaft should be manually rotated or run for short periods of time at monthly intervals.
9. In severe duty applications please perform following activities to extend the pump life,
   a. Drain the pump after each use and flush the pump, through system, with water or other fluid that is compatible with the pump materials and process liquid.
   b. Disassemble the pump liquid components and thoroughly rinse or wash them with water or other fluid that is compatible with the pump materials and process liquid. Please refer to the pump trouble shooting guide if there is a loss of performance.

Motor Inspection

⚠ WARNING ***Please ensure that power has been disconnected before touching any electrical connections. Please ensure that only qualified personnel should attempt installation, operation and maintenance of this equipment.***

1. The motor should be inspected every 500 hours of operation or every three months, whichever occurs first
2. Motor should be kept clean and the ventilation openings should be clear with no obstructions to the flow of air. The interior and exterior of the motor should be free of dirt and all the matter that may block the motor ventilation.

Cast Iron Models 5UWH5 thru 5UWH9, 5UWJ0 thru 5UWJ9 and 5UWK0 Stainless Steel Models 5UWK1 thru 5UWK9 and 5UWL0 thru 5UWL6

Maintenance (Continued)

3. The insulation resistance of the motor windings should be periodically measured and any significant drop should be immediately investigated.

Note: Reference figure 8 Repair Parts List on pages 11 - 16 during Motor replacement and Pump Replacement procedures

Motor Replacement

1. Power supply to the equipment should be disconnected
2. Please close the suction and discharge isolation valves
3. Remove the coupling guards.
4. Remove the screws and the coupling (ref # 9) halves from the shaft.
5. Remove the coupling pin (ref # 8).
6. Remove the screws and washers that hold the motor and the pump head (ref # 2) together.
7. Pull the old motor up from the pump head and notice the location of the terminal box.
8. Clean the surfaces of the mounting flange.
9. Install the new motor on the pump.
10. Reinstall the washers and screws that hold motor and the pump head together.
11. Tighten the screws evenly.
12. Reinstall the shaft pin in the shaft.
13. Clean the coupling surfaces thoroughly prior to assembly.
14. Reinstall the coupling halves on the pump and motor shaft and engage the shaft pin.
15. Close fit the screws until the coupling halves begin to bind.
16. Make sure the gap between the coupling halves is equal on both the sides. Please make sure that the shafts are axially alined.
17. Reinstall the coupling guards and make sure the guards are in place before the unit is turned on.
18. Kindly open the suction and discharge valves.
19. Turn the power back ON.

Pump Replacement

Please follow the steps 1 to 7 mentioned under motor replacement and then proceed further as mentioned below.

1. Remove the staybolts and washers.
2. Lift the motor stool from the pump head.
3. Remove pump head and note the position of the priming plug which would be needed to return to its original position during reassembly.
4. Remove and discard the upper O-ring/gasket.
5. Remove and replace the spring.
6. Pull the old stack out of the sleeve by pulling straight up, the pump shaft.
7. Remove the sleeve.
8. Remove and discard the bottom O-ring/gasket.
9. Clean the O-ring/gasket seat.
10. Remove the suction and discharge flange.
11. Remove and discard the O-ring from suction / discharge.
12. Install a new lower O- ring/gasket.
13. Install the new stack without stainless steel sleeve and make sure to maintain correct alignment of the components.
14. Use a rubber mallet and tap the stainless steel sleeve into its position.
15. Install a new mechanical shaft seal.
16. Install a new upper O- ring/gasket.
17. Install a new round spring ring or stack spring.
18. Reinstall the motor stool on the pump body. Align the priming plug to its original position.
19. Oil the threads on the staybolts.
20. Replace the washers and staybolt nuts and the staybolts.
21. Reinstall the motor on the motor stool and turn the motor to the desired terminal box position.
22. Follow steps starting from 10 under 'Motor Replacement' till the end.

Frost protection

Pumps which are not being used during periods of frost should be drained to avoid damage. Drain the pump by loosening the vent screw in the pump head and by removing the drain plug from the base Care must be taken to ensure that the escaping water does not cause injury to persons or damage to the motor or other components. In hot water installations, special attention should be paid to the risk of injury caused by scalding hot water. Do not tighten the vent screw and replace the drain plug until the pump is to be used again.

Service

If a pump has been used for a liquid which is injurious to health or toxic, the pump will be classified as contaminated. If Dayton is requested to service the pump, Dayton must be contacted with details about the pumped liquid, etc. before the pump is returned for service. Otherwise Dayton can refuse to accept the pump for service. Possible costs of returning the pump are paid by the customer. However, any application for service (no matter to whom it may be made) must include details about the pumped liquid if the pump has been used for liquids which are injurious to health or toxic.

Dayton® Vertical Multistage Centrifugal Pumps

Troubleshooting Chart

Before removing the terminal box cover and before any removal/dismantling of the pump, make sure that the electric supply has been switched off and that it cannot be accidentally switched on.

Symptom	Possible Causes (s)	Corrective Action
Motor does not run when started.	1. Supply failure. 2. Fuses are blown. 3. Motor starter overload has tripped out. 4. Thermal protection has tripped out. 5. Main contacts in motor starter are not making contact or the coil is faulty. 6. Control circuit is defective. 7. Motor is defective.	1. Connect the electricity supply. 2. Replace fuses. 3. Reactivate the motor protection 4. Reactivate the thermal protection. 5. Replace contacts or magnetic coil. 6. Repair the control circuit. 7. Replace the motor.
Motor starter overload trips out immediately when supply is switched on.	1. Fuse or automatic circuit breaker is blown. 2. Contacts in motor starter overload are faulty. 3. Cable connection is loose or faulty. 4. Motor winding is defective. 5. Pump mechanically blocked. 6. Overload setting is too low.	1. Replace fuse or automatic circuit breaker 2. Replace motor starter contacts. 3. Fasten or replace the cable connection. 4. Replace the motor. 5. Remove mechanical blocking of the pump. 6. Set the motor starter correctly.
Motor starter overload trips out occasionally.	1. Low voltage at peak times. 2. Overload setting is too low.	1. Check the electricity supply. 2. Set the motor starter correctly.
Motor starter has not tripped out but the pump does not run.	Check 1, 2, 3, 4, and 5 in possible causes (s) again motor dose not run when started mentioned above.	
Pump capacity not constant.	1. Pump inlet pressure is too low (cavitation). 2. Suction pipe/pump partly blocked by impurities. 3. Pump draws in air	1. Check the suction conditions. 2. Clean the pump or suction pipe. 3. Check the suction conditions.
Pumps run but gives no water.	1. Suction pipe/pump blocked by impurities. 2. Foot or non-return valve blocked in closed position. 3. Leakage in suction pipe. 4. Air in suction pipe or pump. 5. Motor rotates in the wrong direction.	1. Clean the pump or suction pipe. 2. Repair the foot or non-return valve. 3. Repair the suction pipe. 4. Check the suction conditions. 5. Change the direction of rotation of motor.
Pump runs backwards when switched off.	1. Leakage in suction pipe. 2. Foot or non-return valve is defective.	1. Repair the suction pipe. 2. Repair the foot or non-return valve.
Leakage in shaft seal.	Shaft seal is defective.	Replace the shaft seal.
Noise.	1. Cavitation occurs in the pump. 2. Pump does not rotate freely (frictional resistance) because of incorrect pump shaft position	1. Check the suction conditions. 2. Adjust the pump shaft.

For Repair Parts, call 1-800-323-0620

24 hours a day – 365 days a year

Please provide following information:
-Model number
-Serial number (if any)
-Part description and number as shown in parts list

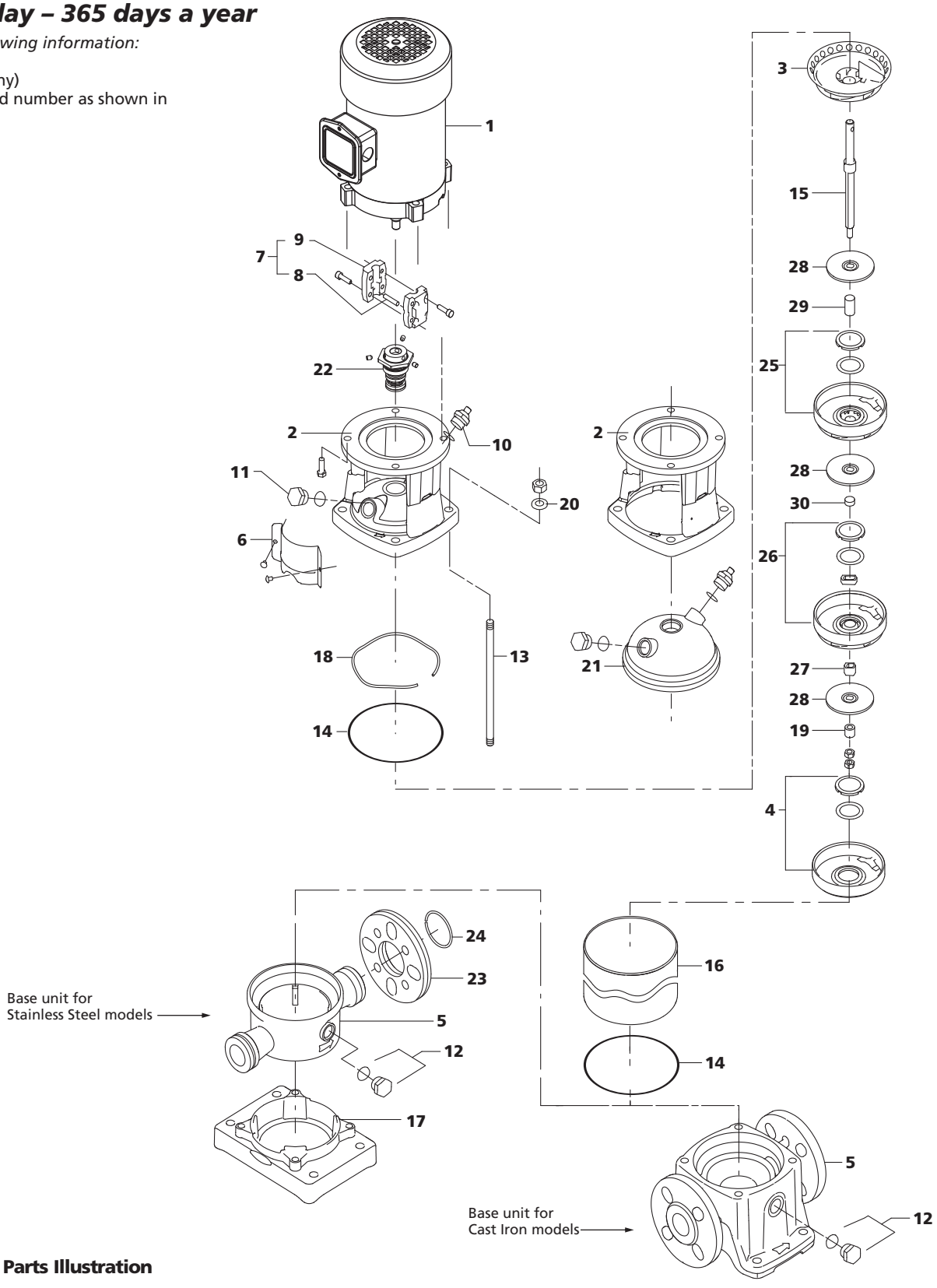


Figure 8 – Repair Parts Illustration

ENGLISH

Repair Parts List (Cast Iron Models)

Ref. No.	Description	Part Number For Models : 5UWH5/ 5UWH6	5UWH9/ 5UWJ0	5UWJ1/ 5UWJ7	5UWJ2/ 5UWJ8	5UWJ3/ 5UWJ9	5UWJ4/ 5UWK0	Qty.
1.	Motor	PPLTFB21TBG/ PPLTFB23TCG	PPLTFC21TBG/ PPLTFC23TCG	PPLTFD21TBG/ PPLTFD23TCG	PPLTFE21TBG/ PPLTFE23TCG	PPLTFF21TBG/ PPLTFF23TCG	PPLTFG21TEG/ PPLTFG23TCG	1
2.	Pump Head	PP6001G	PP6001G	PP6001G	PP6001G	PP6001G	PP6001G	1
3.	Bowl Top	PP6002G	PP6002G	PP6002G	PP6002G	PP6002G	PP6002G	1
4.	Bottom Bowl †	PP6003G	PP6003G	PP6003G	PP6003G	PP6003G	PP6003G	1
5.	Base	PP6004G	PP6004G	PP6004G	PP6004G	PP6004G	PP6004G	1
6.	Coupling Guard	PP6005G	PP6005G	PP6005G	PP6005G	PP6005G	PP6005G	2
7.	Coupling Complete	PP6008G	PP6008G	PP6008G	PP6008G	PP6008G	PP6008G	1
8.	Coupling Pin	PP6010G	PP6010G	PP6010G	PP6010G	PP6010G	PP6010G	1
9.	Coupling	PP6011G	PP6011G	PP6011G	PP6011G	PP6011G	PP6011G	2
10.	Air vent complete	PP6012G	PP6012G	PP6012G	PP6012G	PP6012G	PP6012G	1
11.	Water plug	PP6013G	PP6013G	PP6013G	PP6013G	PP6013G	PP6013G	1
12.	Drain Plug with O-ring	PP6014G	PP6014G	PP6014G	PP6014G	PP6014G	PP6014G	1
13.	Stay Bolt	PP6015G	PP6027G	PP6028G	PP6029G	PP6030G	PP6031G	4
14.	O – ring	PP6018G	PP6018G	PP6018G	PP6018G	PP6018G	PP6018G	2
15.	Pump Shaft	PP6019G	PP6032G	PP6033G	PP6034G	PP6035G	PP6036G	1
16.	Outer Sleeve	PP6020G	PP6037G	PP6038G	PP6039G	PP6040G	PP6041G	1
17.	Baseplate	-	-	-	-	-	-	-
18.	Spring	PP6021G	PP6021G	PP6021G	PP6021G	PP6021G	PP6021G	1
19.	Sleeve for lock nut	PP6022G	PP6022G	PP6022G	PP6022G	PP6022G	PP6022G	1
20.	Washer	PP6023G	PP6023G	PP6023G	PP6023G	PP6023G	PP6023G	4
21.	Pump Head Cover	-	-	-	-	-	-	-
22.	Mechanical Seal	PP6026G	PP6026G	PP6026G	PP6026G	PP6026G	PP6026G	1
23.	Flange	-	-	-	-	-	-	-
24.	Lock ring	-	-	-	-	-	-	-
25.	Stage Bowl †*	-	PP6053AG	-	-	-	-	1
	Stage Bowl †*	-	-	PP6053BG	-	-	-	3
	Stage Bowl †*	-	-	-	PP6053CG	-	-	6
	Stage Bowl †*	-	-	-	-	PP6053DG	-	8
	Stage Bowl †*	-	-	-	-	-	PP6053EG	14
26.	Bearing Bowl ‡*	PP6054AG	PP6054AG	PP6054AG	PP6054AG	-	-	1
	Bearing Bowl ‡*	-	-	-	-	PP6054BG	PP6054BG	2
27.	Bearing Ring Sleeve*	PP6057AG	PP6057AG	PP6057AG	PP6057AG	-	-	1
	Bearing Ring Sleeve*	-	-	-	-	PP6057BG	PP6057BG	2
28.	Impeller*	PP6058AG	-	-	-	-	-	2
	Impeller*	-	PP6058BG	-	-	-	-	3
	Impeller*	-	-	PP6058CG	-	-	-	5
	Impeller*	-	-	-	PP6058DG	-	-	8
	Impeller*	-	-	-	-	-	-	9
	Impeller*	-	-	-	-	PP6058EG	-	11
	Impeller*	-	-	-	-	-	PP6058FG	17
29.	Stage Spacing Pipe*	-	PP6059AG	-	-	-	-	1
	Stage Spacing Pipe*	-	-	PP6059BG	-	-	-	3
	Stage Spacing Pipe*	-	-	-	PP6059CG	-	-	6
	Stage Spacing Pipe*	-	-	-	-	PP6059DG	-	8
	Stage Spacing Pipe*	-	-	-	-	-	PP6059EG	14
30.	Bearing Spacing Pipe*	PP6060AG	PP6060AG	PP6060AG	PP6060AG	-	-	1
	Bearing Spacing Pipe*	-	-	-	-	PP6060BG	PP6060BG	2

NOTE : * Please refer above table for ordering parts and required quantities.
- Not applicable.
† with Neckring and Neckring Retainer.
‡ with Neckring, Neckring Retainer and Bearing

ENGLISH

Repair Parts List (Cast Iron Models)

Ref. No.	Description	Part Number For Models : 5UWH7/ 5UWH8	5UWJ5	5UWJ6	Qty.
1.	Motor	PPLTFC21TBG/ PPLTFC23TCG	PPLTFF21TBG	PPLTFG21TEG	1
2.	Pump Head	PP6001G	PP6001G	PP6001G	1
3.	Bowl Top	PP6042G	PP6042G	PP6042G	1
4.	Bottom Bowl †	PP6043G	PP6043G	PP6043G	1
5.	Base	PP6004G	PP6004G	PP6004G	1
6.	Coupling Guard	PP6005G	PP6005G	PP6005G	2
7.	Coupling Complete	PP6008G	PP6008G	PP6008G	1
8.	Coupling Pin	PP6010G	PP6010G	PP6010G	1
9.	Coupling	PP6011G	PP6011G	PP6011G	2
10.	Air vent complete	PP6012G	PP6012G	PP6012G	1
11.	Water plug	PP6013G	PP6013G	PP6013G	1
12.	Drain Plug with O-ring	PP6014G	PP6014G	PP6014G	1
13.	Stay Bolt	PP6044G	PP6047G	PP6050G	4
14.	O – ring	PP6018G	PP6018G	PP6018G	2
15.	Pump Shaft	PP6045G	PP6048G	PP6051G	1
16.	Outer Sleeve	PP6046G	PP6049G	PP6052G	1
17.	Baseplate	-	-	-	-
18.	Spring	PP6021G	PP6021G	PP6021G	1
19.	Sleeve for lock nut	PP6022G	PP6022G	PP6022G	1
20.	Washer	PP6023G	PP6023G	PP6023G	4
21.	Pump Head Cover	-	-	-	-
22.	Mechanical Seal	PP6026G	PP6026G	PP6026G	1
23.	Flange	-	-	-	-
24.	Lock ring	-	-	-	-
25.	Stage Bowl †*	-	-	-	1
	Stage Bowl †*	-	PP6077AG	-	3
	Stage Bowl †*	-	-	PP6077BG	6
	Stage Bowl †*	-	-	-	8
	Stage Bowl †*	-	-	-	14
26.	Bearing Bowl ‡*	PP6078AG	PP6078AG	-	1
	Bearing Bowl ‡*	-	-	PP6078BG	2
27.	Bearing Ring Sleeve*	PP6057AG	PP6057AG	-	1
	Bearing Ring Sleeve*	-	-	PP6057BG	2
28.	Impeller*	PP6080AG	-	-	2
	Impeller*	-	-	-	3
	Impeller*	-	PP6080BG	-	5
	Impeller*	-	-	-	8
	Impeller*	-	-	PP6080CG	9
	Impeller*	-	-	-	11
	Impeller*	-	-	-	17
29.	Stage Spacing Pipe*	-	-	-	1
	Stage Spacing Pipe*	-	PP6081AG	-	3
	Stage Spacing Pipe*	-	-	PP6081BG	6
	Stage Spacing Pipe*	-	-	-	8
	Stage Spacing Pipe*	-	-	-	14
30.	Bearing Spacing Pipe*	PP6082AG	PP6082AG	-	1
	Bearing Spacing Pipe*	-	-	PP6082BG	2

NOTE : * Please refer above table for ordering parts and required quantities.
- Not applicable.
† with Neckring and Neckring Retainer.
‡ with Neckring, Neckring Retainer and Bearing

ENGLISH

Repair Parts List (Stainless Steel Models)

Ref. No.	Description	Part Number For Models : 5UWK1/ 5UWK2	5UWK5/ 5UWK6	5UWK7/ 5UWL3	5UWK8/ 5UWL4	5UWK9/ 5UWL5	5UWL0/ 5UWL6	Qty.
1.	Motor	PPLTFB21TBG/ PPLTFB23TCG	PPLTFC21TBG/ PPLTFC23TCG	PPLTFD21TBG/ PPLTFD23TCG	PPLTFE21TBG/ PPLTFE23TCG	PPLTFF21TBG/ PPLTFF23TCG	PPLTFG21TEG/ PPLTFG23TCG	1
2.	Pump Head	PP6062G	PP6062G	PP6062G	PP6062G	PP6062G	PP6062G	1
3.	Bowl Top	PP6002G	PP6002G	PP6002G	PP6002G	PP6002G	PP6002G	1
4.	Bottom Bowl †	PP6003G	PP6003G	PP6003G	PP6003G	PP6003G	PP6003G	1
5.	Base	PP6063G	PP6063G	PP6063G	PP6063G	PP6063G	PP6063G	1
6.	Coupling Guard	PP6005G	PP6005G	PP6005G	PP6005G	PP6005G	PP6005G	2
7.	Coupling Complete	PP6008G	PP6008G	PP6008G	PP6008G	PP6008G	PP6008G	1
8.	Coupling Pin	PP6010G	PP6010G	PP6010G	PP6010G	PP6010G	PP6010G	1
9.	Coupling	PP6011G	PP6011G	PP6011G	PP6011G	PP6011G	PP6011G	2
10.	Air vent complete	PP6012G	PP6012G	PP6012G	PP6012G	PP6012G	PP6012G	1
11.	Water plug	PP6013G	PP6013G	PP6013G	PP6013G	PP6013G	PP6013G	1
12.	Drain Plug with O-ring	PP6014G	PP6014G	PP6014G	PP6014G	PP6014G	PP6014G	1
13.	Stay Bolt	PP6064G	PP6069G	PP6070G	PP6071G	PP6072G	PP6073G	4
14.	O – ring	PP6018G	PP6018G	PP6018G	PP6018G	PP6018G	PP6018G	2
15.	Pump Shaft	PP6019G	PP6032G	PP6033G	PP6034G	PP6035G	PP6036G	1
16.	Outer Sleeve	PP6020G	PP6037G	PP6038G	PP6039G	PP6040G	PP6041G	1
17.	Baseplate	PP6065G	PP6065G	PP6065G	PP6065G	PP6065G	PP6065G	1
18.	Spring	PP6021G	PP6021G	PP6021G	PP6021G	PP6021G	PP6021G	1
19.	Sleeve for lock nut	PP6022G	PP6022G	PP6022G	PP6022G	PP6022G	PP6022G	1
20.	Washer	PP6023G	PP6023G	PP6023G	PP6023G	PP6023G	PP6023G	4
21.	Pump Head Cover	PP6066G	PP6066G	PP6066G	PP6066G	PP6066G	PP6066G	1
22.	Mechanical Seal	PP6026G	PP6026G	PP6026G	PP6026G	PP6026G	PP6026G	1
23.	Flange	PP6067G	PP6067G	PP6067G	PP6067G	PP6067G	PP6067G	2
24.	Lock ring	PP6068G	PP6068G	PP6068G	PP6068G	PP6068G	PP6068G	2
25.	Stage Bowl †*	-	PP6053AG	-	-	-	-	1
	Stage Bowl †*	-	-	PP6053BG	-	-	-	3
	Stage Bowl †*	-	-	-	PP6053CG	-	-	6
	Stage Bowl †*	-	-	-	-	PP6053DG	-	8
	Stage Bowl †*	-	-	-	-	-	PP6053EG	14
26.	Bearing Bowl ‡*	PP6054AG	PP6054AG	PP6054AG	PP6054AG	-	-	1
	Bearing Bowl ‡*	-	-	-	-	PP6054BG	PP6054BG	2
27.	Bearing Ring Sleeve*	PP6057AG	PP6057AG	PP6057AG	PP6057AG	-	-	1
	Bearing Ring Sleeve*	-	-	-	-	PP6057BG	PP6057BG	2
28.	Impeller*	PP6058AG	-	-	-	-	-	2
	Impeller*	-	PP6058BG	-	-	-	-	3
	Impeller*	-	-	PP6058CG	-	-	-	5
	Impeller*	-	-	-	PP6058DG	-	-	8
	Impeller*	-	-	-	-	-	-	9
	Impeller*	-	-	-	-	PP6058EG	-	11
	Impeller*	-	-	-	-	-	PP6058FG	17
29.	Stage Spacing Pipe*	-	PP6059AG	-	-	-	-	1
	Stage Spacing Pipe*	-	-	PP6059BG	-	-	-	3
	Stage Spacing Pipe*	-	-	-	PP6059CG	-	-	6
	Stage Spacing Pipe*	-	-	-	-	PP6059DG	-	8
	Stage Spacing Pipe*	-	-	-	-	-	PP6059EG	14
30.	Bearing Spacing Pipe*	PP6060AG	PP6060AG	PP6060AG	PP6060AG	-	-	1
	Bearing Spacing Pipe*	-	-	-	-	PP6060BG	PP6060BG	2

NOTE : * Please refer above table for ordering parts and required quantities.
- Not applicable.
† with Neckring and Neckring Retainer.
‡ with Neckring, Neckring Retainer and Bearing

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Repair Parts List (Stainless Steel Models)

Ref. No.	Description	Part Number For Models : 5UWK3/ 5UWK4	5UWL1	5UWL2	Qty.
1.	Motor	PPLTFC21TBG/ PPLTFC23TCG	PPLTFF21TBG	PPLTFG21TEG	1
2.	Pump Head	PP6062G	PP6062G	PP6062G	1
3.	Bowl Top	PP6042G	PP6042G	PP6042G	1
4.	Bottom Bowl †	PP6043G	PP6043G	PP6043G	1
5.	Base	PP6063G	PP6063G	PP6063G	1
6.	Coupling Guard	PP6005G	PP6005G	PP6005G	2
7.	Coupling Complete	PP6008G	PP6008G	PP6008G	1
8.	Coupling Pin	PP6010G	PP6010G	PP6010G	1
9.	Coupling	PP6011G	PP6011G	PP6011G	2
10.	Air vent complete	PP6012G	PP6012G	PP6012G	1
11.	Water plug	PP6013G	PP6013G	PP6013G	1
12.	Drain Plug with O-ring	PP6014G	PP6014G	PP6014G	1
13.	Stay Bolt	PP6074G	PP6075G	PP6076G	4
14.	O – ring	PP6018G	PP6018G	PP6018G	2
15.	Pump Shaft	PP6045G	PP6048G	PP6051G	1
16.	Outer Sleeve	PP6046G	PP6049G	PP6052G	1
17.	Baseplate	PP6065G	PP6065G	PP6065G	1
18.	Spring	PP6021G	PP6021G	PP6021G	1
19.	Sleeve for lock nut	PP6022G	PP6022G	PP6022G	1
20.	Washer	PP6023G	PP6023G	PP6023G	4
21.	Pump Head Cover	PP6066G	PP6066G	PP6066G	1
22.	Mechanical Seal	PP6026G	PP6026G	PP6026G	1
23.	Flange	PP6067G	PP6067G	PP6067G	2
24.	Lock ring	PP6068G	PP6068G	PP6068G	2
25.	Stage Bowl †*	-	-	-	1
	Stage Bowl †*	-	PP6077AG	-	3
	Stage Bowl †*	-	-	PP6077BG	6
	Stage Bowl †*	-	-	-	8
	Stage Bowl †*	-	-	-	14
26.	Bearing Bowl ‡*	PP6078AG	PP6078AG	-	1
	Bearing Bowl ‡*	-	-	PP6078BG	2
27.	Bearing Ring Sleeve*	PP6057AG	PP6057AG	-	1
	Bearing Ring Sleeve*	-	-	PP6057BG	2
28.	Impeller*	PP6080AG	-	-	2
	Impeller*	-	-	-	3
	Impeller*	-	PP6080BG	-	5
	Impeller*	-	-	-	8
	Impeller*	-	-	PP6080CG	9
	Impeller*	-	-	-	11
	Impeller*	-	-	-	17
29.	Stage Spacing Pipe*	-	-	-	1
	Stage Spacing Pipe*	-	PP6081AG	-	3
	Stage Spacing Pipe*	-	-	PP6081BG	6
	Stage Spacing Pipe*	-	-	-	8
	Stage Spacing Pipe*	-	-	-	14
30.	Bearing Spacing Pipe*	PP6082AG	PP6082AG	-	1
	Bearing Spacing Pipe*	-	-	PP6082BG	2

NOTE : * Please refer above table for ordering parts and required quantities.
- Not applicable.
† with Neckring and Neckring Retainer.
‡ with Neckring, Neckring Retainer and Bearing

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Notes

Notes

Dayton® Vertical Multistage Centrifugal Pumps

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