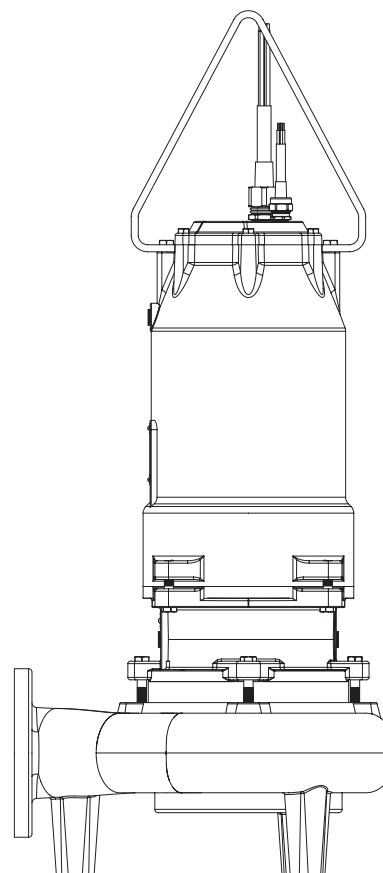




FAIRBANKS NIJHUIS®



MODELS 3D1431MV, 4D1432MV,
4D1433MV, 4D1434MV, 4D1435MV,
AND 4D1436MV

(Class I, Division 1, Groups C & D): FM

SUBMERSIBLE SOLIDS HANDLING PUMP

INSTALLATION AND SERVICE MANUAL

For use with product built with Premium Efficient motor.

(Hazardous Location
Motor End)



Make sure this manual is provided to the owner of the equipment or to the responsible party who maintains the system.

General Information

Attention:

This manual contains important information for the safe use of this product. Read completely and do not throw away. Reasonable care and safe methods should be practiced. Check local codes and requirements before installation.

Unpacking Pump:

When unpacking unit, check for damage. Claims for damage must be made at the receiving end through the delivery carrier. Damage cannot be processed from the factory.

WARNING: Before handling these pumps and controls, always disconnect the power first. Do not smoke or use sparkable electrical devices or flames in a septic (gaseous) or possible septic sump.

CALIFORNIA PROPOSITION 65 WARNING:

⚠ WARNING This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Pumps in Storage or Not Operating:

Pumps with silicon/carbide seals must have impellers manually rotated (6 revolutions) after setting non-operational for 3 months or longer and prior to electrical start-up.

Pumps with tungsten carbide seals must have impellers manually rotated (6 revolutions) after setting non-operational for 3 weeks or longer and prior to electrical start-up.

Seal Failure Probes:

All hazardous location submersible pumps have two factory installed moisture detectors (seal failure probes). They are in a normally open series circuit in the seal chamber. Under normal operating conditions, the circuit remains open. If the lower seal leaks and moisture enters this chamber, the moisture would settle to the bottom of the chamber and will complete the circuit between the moisture detectors.

This circuit must be connected to a sensing unit and signaling device.

Heat Sensors:

All motors in this family have heat sensors on or embedded in the motor winding to detect excessive heat. This prevents damage to the motor. If sensor trips due to excessive winding temperature, the starter in the panel breaks power to the pump. Once the sensor resets, the starter is automatically reset for FM for continued operation of the pump.

The sensors are set to trip at 130°C.

NOTE: Failure to install such circuitry would negate FM approvals and all warranties by Fairbanks Nijhuis®.

Power Cords:

The power cord and heat sensor seal failure cord are potted into the cord cap. The cords must not be spliced.

NOTE: Each cable has a green lead. This is the ground wire and must be grounded properly per NEC and/or local codes. Cords should be inspected for abnormal wear and replaced accordingly.

Overload Heaters:

Starters with 3 leg overload relay must be supplied on 3 phase pumps. Each leg is to have an identical heater sized in accordance with the nameplate amps on the motor housing. The amp draw on these submersible motors is slightly higher than a corresponding horsepower surface motor, so heaters must be sized by the nameplate rating.

Capacitor start single phase pumps have a run and start winding that draws different currents. To adequately protect these windings with the appropriate heaters, consult the factory.

NOTE: The red lead is always the start winding of a pump using single phase.

Pump Installation

Installing Sump Level Controls Float Controls:

In either simplex, duplex or triplex systems the lower or turn-off control is to be set to maintain a minimum level in the sump. This level shall be no more than 3-1/4" from the top of the motor housing down to the surface of the sewage.

The second or turn-on control is set above the lower turn-off control. The exact distance between the two floats must be a compromise between a frequent pumping cycle (10 starts per hour max.) to control septicity, solids and a slower cycle for energy economy. This distance should be determined by the engineer or consulting engineer, depending on the conditions of the application.

Installing Pump in Sump:

Before installing the pump in the sump, lay it on its side and rotate impeller. Impeller may be slightly stuck due to factory test water. The impeller should turn freely. Do not connect the power until after this test.

Clean all debris from sump and connect pump to piping. A check valve must be installed on each pump. A gate or plug valve in each pump discharge is highly recommended. This valve should be installed on the discharge side of the check valve so if necessary to service the check valve, the line pressure can be cut off. Single pump systems are sometimes installed without a check valve where it is desirable to self-drain the discharge line to prevent freezing. This can be done only with short discharge lines; otherwise water will return to the sump and cause short cycling of the pump.

Making Electrical Connections:

All electrical wiring must be in accordance with local code, and only qualified electricians should make the installations. All wires should be checked for shorts to ground with an ohmmeter or Megger® after the connections are made. This is important, as one grounded wire can cause considerable trouble.

IMPORTANT: If equipment is not properly wired and protected as recommended, warranty is void.

Heat Sensor and Seal Failure Connections:

If a control panel is supplied by others, it must allow heat sensor and seal failure terminations.

Pump Operations

Starting System:

1. Double check all wire connections.
2. Turn pumps to Off position on H-O-A switches.
3. Turn on breakers.
4. When using single phase pumps, make sure red pump lead is connected to capacitor circuit. Connect amprobe to pump power cord and turn pump on. The pump will show high amp draw momentarily, then as pump comes off start wirings, amps will drop to normal nameplate amps.

When using three phase pumps (230/460/575), turn the H-O-A switch to Hand position on one pump and notice operation. If pump is noisy and vibrates, rotation is wrong. To change rotation, interchange any two line leads to pump. Do not interchange main incoming lines. Check rotation of all pumps in this same manner.

5. Now set both H-O-A switches to Auto position and allow water to rise in sump until one pump starts. Allow pump to operate until the level drops to turn-off point.
6. Allow sump level to rise to start other pump(s). Notice run lights in panel. Pumps should alternate on each successive cycle of operation.
7. Turn both H-O-A switches to Off position and allow sump to fill to the override control level(s).
8. Turn switches to Auto position, and pumps should start and operate together until level drops to turn-off point.
9. Repeat this operation and cycle several times before leaving the job.
10. Check voltage when pumps are operating and check the amp draw of each pump. Check amps on each wire as sometimes a high leg will exist. For excessive voltage on one leg, the electric utility company should be consulted.

Pump Maintenance

As the motors are oil filled, no lubrication or other maintenance is required.

If the heat sensor and seal failure are hooked up properly, no attention is necessary as long as the seal failure indicator light does not come on. Ensure continuity of the seal sensor.

Pump should be checked every quarter for corrosion and wear.

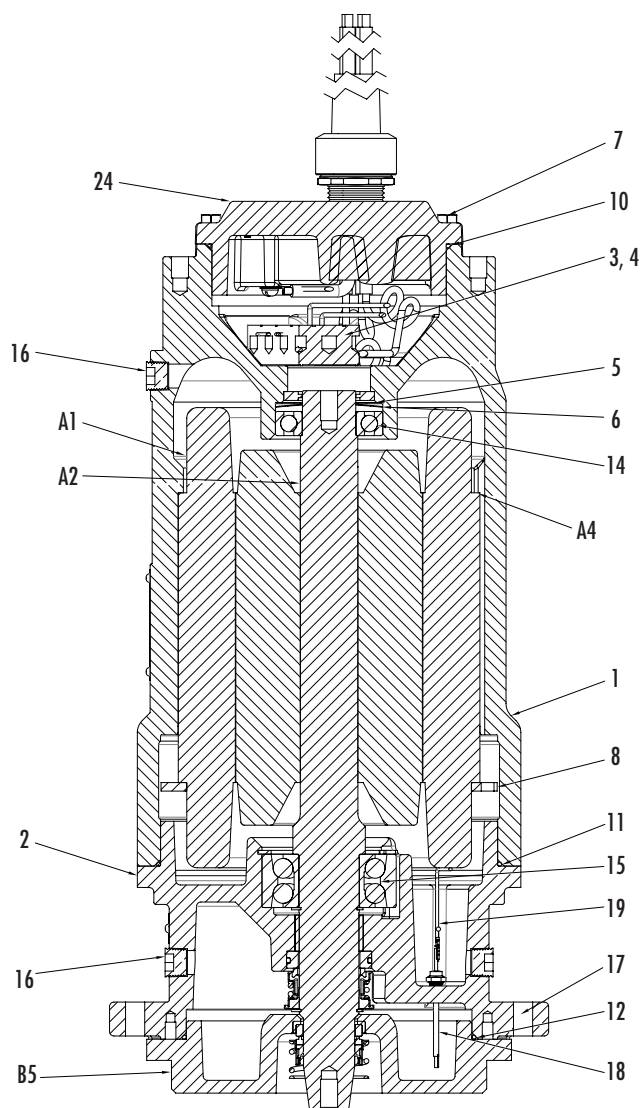
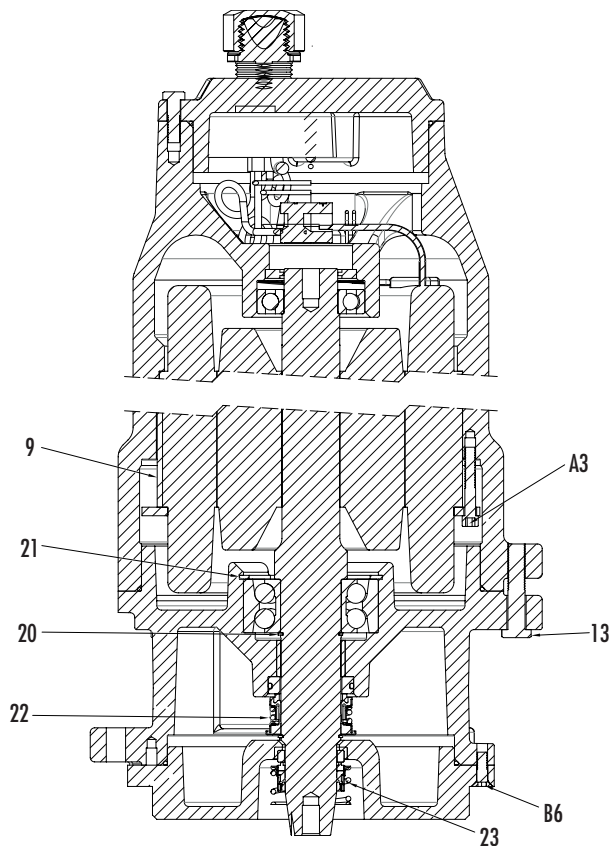
Field Service on Fairbanks Nijhuis Hazardous Location Pumps:

If the pump is used in a hazardous location, it must be returned to the factory for electrical and motor service. This will ensure the integrity of the hazardous location rating of the pump and comply with our warranty requirements.

The upper and lower seals, volute and impeller components may be repaired or replaced by an authorized service facility without compromising the hazardous location rating to the pump.

Any time the seal is disturbed, it must be replaced.

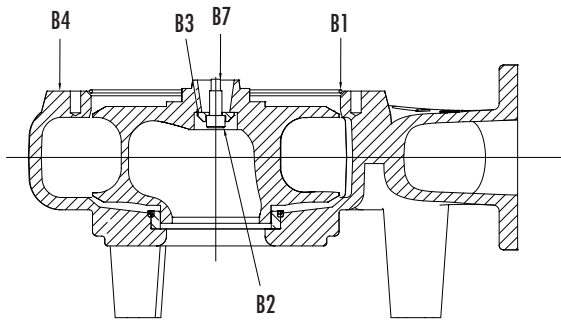
Check the pump for proper rotation before returning to service.



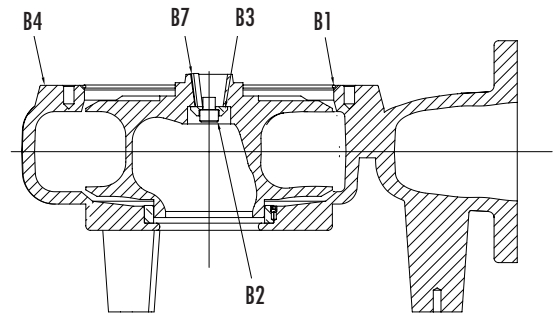
Ref. No.	Part No.	Part Description	Qty.
1	28010D000	MOTOR HOUSING	1
2	27818D010	BEARING HOUSING	1
3	27882A009	TERMINAL BLOCK	1
4	06106A069	SCREW (TERMINAL BLOCK)	2
5	110650033	SCREEN	1
6	19331A007	WASHER SPRING (THRUST)	1
7	19101A017	CAP SCREW (CORD CAP)	6
8	026032103	STATOR RING	1
9	05818A090	KEY SQ. 5/32	1
10	001500191	O-RING (CORD CAP)	1
11	001500401	O-RING (MOTOR HOUSING)	1
12	05876A121	O-RING (SEAL PLATE)	1
13	19103A048	SCREW CAP 1/2-13 x 2.5 LG	4
14	000650111	BALL BEARING UPPER	1

Ref. No.	Part No.	Part Description	Qty.
15	071670181	DOUBLE ROW BALL BEARING LOWER	1
16	009240101	PIPE PLUG 1/2 SOCKET HEAD BRASS	3
17	19103A048	CAPSCREW – 4D1434MV, 4D1435MV, 4D1436MV	4
	19103A060	CAPSCREW – 3D1431MV, 4D1432MV, 4D1433MV	4
18	109010011	SEAL FAILURE PROBE	2
19	109000025	SENSOR WIRES	1
20	12558A017	RETAINING RING EXTERNAL	1
21	009740031	RETAINING RING INTERNAL	1
22	110491001	UPPER SEAL	1
23	009201001	LOWER SEAL	1
24	152880315	CORD CAP ASSEMBLY – 10-4 SOOW	1
	152880325	CORD CAP ASSEMBLY – 8-4 W	1
	152880335	CORD CAP ASSEMBLY – 6-4 W	1

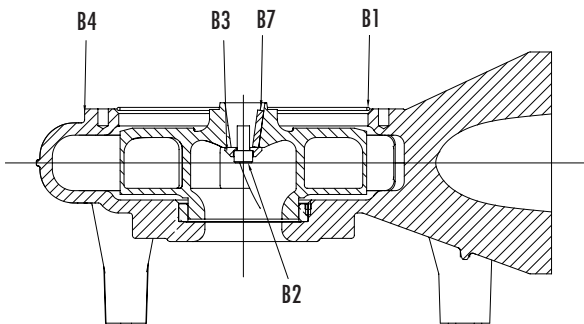
Hydraulic End Parts List



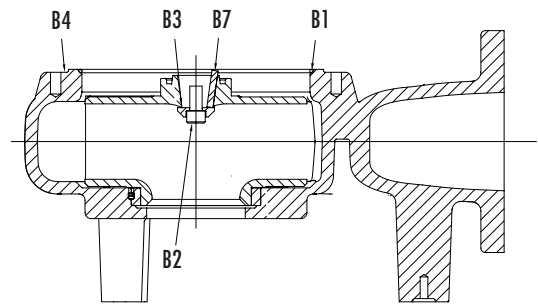
3D1431MV



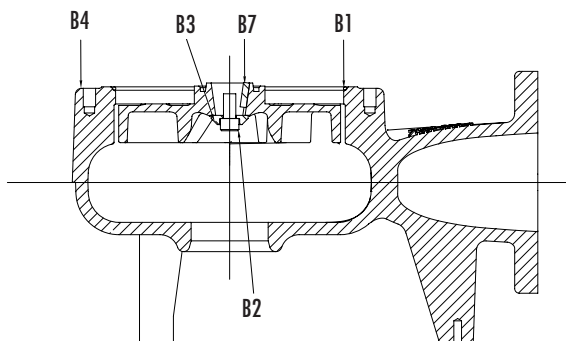
4D1432MV



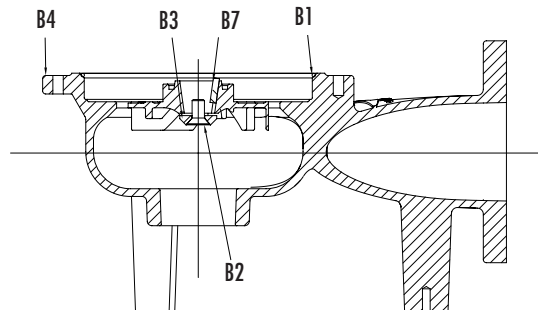
4D1433MV



4D1434MV



4D1435MVV



4D1436MVV

Item No.	Description	3D1431MV	4D1432MV	4D1433MV	4D1434MV	4D1435MVV	4D1436MVV
B1	O-RING	05876A136	05876A136	05876A136	001500581	001500581	001500581
B2	IMPELLER BOLT	005680021	005680021	005680021	005680021	005680021	029210041
B3	WASHER – IMPELLER	080230001	080230001	080230001	080230001	080230001	080230011
B4	VOLUTE	151540015	151470015	137210015	070680015	070800002	082120002
B5	PLATE – SEAL	27819D103	27819D103	27819D103	27819D003	27819D003	27819D003
B6	SCREW – FLAT HEAD (4)	047560061	047560061	047560061	07597A017	07597A017	07597A017
B7	KEY	083460033	083460033	083460033	083460033	083460011	083460011

Motor Parts Group

Item	2-Pole 3450 RPM	10 – 15 hp 208-230/3/60	10 – 15 hp 460/3/60	10 – 15 hp 575/3/60	7.5 hp 208-230/3/60	7.5 hp 460/3/60	7.5 hp 575/3/60
A1	STATOR	27889D003	27889D003	27889D603	27887D003	27887D003	27887D603
A2	ROTOR/SHAFT ASSEMBLY	27887D011	27887D011	27887D011	27887D011	27887D011	27887D011
A3	BOLT – STATOR (4)	001780051	001780051	001780051	001780051	001780051	001780051
A4	SPACER	007362141	007362141	007362141	007362141	007362141	007362141
	CONNECTOR	–	12672A001	–	–	12672A001	–

Item	4-Pole 1750 RPM	10 – 15 hp 208-230/3/60	10 – 15 hp 460/3/60	10 – 15 hp 575/3/60	5 – 7.5 hp 208-230/1/60	5 – 7.5 hp 208-230/3/60	5 – 7.5 hp 460/3/60	5 – 7.5 hp 575/3/60
A1	STATOR	27886D003	27886D003	27886D603	27885D001	27884D003	27884D003	27884D603
A2	ROTOR/SHAFT ASSEMBLY	27886D011	27886D011	27886D011	27885D011	27884D011	27884D011	27884D011
A3	BOLT – STATOR (4)	06106A070	06106A070	06106A070	001780051	001780041	001780041	001780041
A4	SPACER	–	–	–	007362141	007362141	007362141	007362141
	CONNECTOR	–	12672A001	–	–	–	12672A001	–

Item	6-Pole 1150 RPM	3 – 5 hp 208-230/3/60	3 – 5 hp 460/3/60	3 – 5 hp 575/3/60
A1	STATOR	27883D003	27883D003	27883D603
A2	ROTOR/SHAFT ASSEMBLY	27883D011	27883D011	27883D011
A3	BOLT – STATOR (4)	001780051	001780051	001780051
A4	SPACER	007362141	007362141	007362141
	CONNECTOR	–	12672A001	–

Impeller Parts List

3D1431MV

Description	Part No.	hp	Voltage/ph	Cord	Trim	Impeller
3" SOLIDS, 3" DISCHARGE, 1750 RPM						
3D1431MV750CC	528049067	7.5	230/1	8 – 4	8.25	151465002
3D1431MV750DC	528049077	7.5	208/3	8 – 4	8.25	151465002
3D1431MV750EC	528049087	7.5	230/3	8 – 4	8.25	151465002
3D1431MV750FC	528049097	7.5	460/3	10 – 4	8.25	151465002
3D1431MV750GC	528049107	7.5	575/3	10 – 4	8.25	151465002
3D1431MV1000DC	528049117	10	208/3	8 – 4	9.25	151465002
3D1431MV1000EC	528049127	10	230/3	8 – 4	9.25	151465002
3D1431MV1000FC	528049137	10	460/3	10 – 4	9.25	151465002
3D1431MV1000GC	528049147	10	575/3	10 – 4	9.25	151465002
3D1431MV1500DC	528049157	15	208/3	8 – 4	10.00	151465002
3D1431MV1500EC	528049167	15	230/3	8 – 4	10.00	151465002
3D1431MV1500FC	528049177	15	460/3	8 – 4	10.00	151465002
3D1431MV1500GC	528049187	15	575/3	10 – 4	10.00	151465002

4D1432MV

Description	Part No.	hp	Voltage/ph	Cord	Trim	Impeller
3" SOLIDS, 4" DISCHARGE, 1750 RPM						
4D1432MV750CC	528059067	7.5	230/1	8 – 4	8.25	151465002
4D1432MV750DC	528059077	7.5	208/3	8 – 4	8.25	151465002
4D1432MV750EC	528059087	7.5	230/3	8 – 4	8.25	151465002
4D1432MV750FC	528059097	7.5	460/3	10 – 4	8.25	151465002
4D1432MV750GC	528059107	7.5	575/3	10 – 4	8.25	151465002
4D1432MV1000DC	528059117	10	208/3	8 – 4	9.25	151465002
4D1432MV1000EC	528059127	10	230/3	8 – 4	9.25	151465002
4D1432MV1000FC	528059137	10	460/3	10 – 4	9.25	151465002
4D1432MV1000GC	528059147	10	575/3	10 – 4	9.25	151465002
4D1432MV1500DC	528059157	15	208/3	8 – 4	10.00	151465002
4D1432MV1500EC	528059167	15	230/3	8 – 4	10.00	151465002
4D1432MV1500FC	528059177	15	460/3	8 – 4	10.00	151465002
4D1432MV1500GC	528059187	15	575/3	10 – 4	10.00	151465002

Impeller Parts List

4D1433MV

Description	Part No.	hp	Voltage/ph	Cord	Trim	Impeller
2" SOLIDS, 4" DISCHARGE, 1750 RPM						
4D1433MV500BC	528039007	5	208/1	8 – 4	7.50	137220012
4D1433MV500CC	528039017	5	230/1	8 – 4	7.50	137220012
4D1433MV500DC	528039027	5	208/3	10 – 4	7.50	137220012
4D1433MV500EC	528039037	5	230/3	10 – 4	7.50	137220012
4D1433MV500FC	528039047	5	460/3	10 – 4	7.50	137220012
4D1433MV500GC	528039057	5	575/3	10 – 4	7.50	137220012
4D1433MV750CC	528039067	7.5	230/1	8 – 4	8.25	137220012
4D1433MV750DC	528039077	7.5	208/3	8 – 4	8.25	137220012
4D1433MV750EC	528039087	7.5	230/3	8 – 4	8.25	137220012
4D1433MV750FC	528039097	7.5	460/3	10 – 4	8.25	137220012
4D1433MV750GC	528039107	7.5	575/3	10 – 4	8.25	137220012
4D1433MV1000DC	528039117	10	208/3	8 – 4	9.25	137220012
4D1433MV1000EC	528039127	10	230/3	8 – 4	9.25	137220012
4D1433MV1000FC	528039137	10	460/3	10 – 4	9.25	137220012
4D1433MV1000GC	528039147	10	575/3	10 – 4	9.25	137220012
4D1433MV1500DC	528039157	15	208/3	8 – 4	10.00	137220012
4D1433MV1500EC	528039167	15	230/3	8 – 4	10.00	137220012
4D1433MV1500FC	528039177	15	460/3	8 – 4	10.00	137220012
4D1433MV1500GC	528039187	15	575/3	10 – 4	10.00	137220012

4D1434MV

Description	Part No.	hp	Voltage/ph	Cord	Trim	Impeller
3" SOLIDS, 4" DISCHARGE, 1750 RPM						
4D1434MV500CC	528019187	5	230/1	8 – 4	6.88	070710012
4D1434MV500DC	528019127	5	208/3	10 – 4	6.88	070710012
4D1434MV500EC	528019137	5	230/3	10 – 4	6.88	070710012
4D1434MV500FC	528019147	5	460/3	10 – 4	6.88	070710012
4D1434MV500GC	528019157	5	575/3	10 – 4	6.88	070710012
4D1434MV750CC	528019167	7.5	230/1	8 – 4	7.50	070710072
4D1434MV750DC	528019087	7.5	208/3	8 – 4	7.50	070710072
4D1434MV750EC	528019097	7.5	230/3	8 – 4	7.50	070710072
4D1434MV750FC	528019107	7.5	460/3	10 – 4	7.50	070710072
4D1434MV750GC	528019117	7.5	575/3	10 – 4	7.50	070710072
4D1434MV1000DC	528019047	10	208/3	8 – 4	8.00	070710012
4D1434MV1000EC	528019057	10	230/3	8 – 4	8.00	070710012
4D1434MV1000FC	528019067	10	460/3	10 – 4	8.00	070710012
4D1434MV1000GC	528019077	10	575/3	10 – 4	8.00	070710012
4D1434MV1500DC	528019007	15	208/3	8 – 4	9.00	070710012
4D1434MV1500EC	528019017	15	230/3	8 – 4	9.00	070710012
4D1434MV1500FC	528019027	15	460/3	8 – 4	9.00	070710012
4D1434MV1500GC	528019037	15	575/3	10 – 4	9.00	070710012
3" SOLIDS, 4" DISCHARGE, 1150 RPM						
4D1434MV300DB	528019237	3	208/3	10 – 4	8.00	070710012
4D1434MV300EB	528019247	3	230/3	10 – 4	8.00	070710012
4D1434MV300FB	528019257	3	460/3	10 – 4	8.00	070710012
4D1434MV300GB	528019267	3	575/3	10 – 4	8.00	070710012
4D1434MV500DB	528019197	5	208/3	10 – 4	9.00	070710012
4D1434MV500EB	528019207	5	230/3	10 – 4	9.00	070710012
4D1434MV500FB	528019217	5	460/3	10 – 4	9.00	070710012
4D1434MV500GB	528019227	5	575/3	10 – 4	9.00	070710012

4D1435MVV

Description	Part No.	hp	Voltage/ph	Cord	Trim	Impeller
3" SOLIDS, 4" DISCHARGE, 1750 RPM						
4D1435MVV500CC	528029017	5	230/1	8 – 4	6.75	070810002
4D1435MVV500DC	528029027	5	208/3	10 – 4	6.75	070810002
4D1435MVV500EC	528029037	5	230/3	10 – 4	6.75	070810002
4D1435MVV500FC	528029047	5	460/3	10 – 4	6.75	070810002
4D1435MVV500GC	528029057	5	575/3	10 – 4	6.75	070810002
4D1435MVV750CC	528029067	7.5	230/1	8 – 4	8.00	070810002
4D1435MVV750DC	528029077	7.5	208/3	8 – 4	8.00	070810002
4D1435MVV750EC	528029087	7.5	230/3	8 – 4	8.00	070810002
4D1435MVV750FC	528029097	7.5	460/3	10 – 4	8.00	070810002
4D1435MVV750GC	528029107	7.5	575/3	10 – 4	8.00	070810002
4D1435MVV1000DC	528029117	10	208/3	8 – 4	8.75	070810092
4D1435MVV1000EC	528029127	10	230/3	8 – 4	8.75	070810092
4D1435MVV1000FC	528029137	10	460/3	10 – 4	8.75	070810092
4D1435MVV1000GC	528029147	10	575/3	10 – 4	8.75	070810092
4D1435MVV1500DC	528029157	15	208/3	8 – 4	9.00	070810002
4D1435MVV1500EC	528029167	15	230/3	8 – 4	9.00	070810002
4D1435MVV1500FC	528029177	15	460/3	8 – 4	9.00	070810002
4D1435MVV1500GC	528029187	15	575/3	10 – 4	9.00	070810002
1150 RPM						
4D1435MVV300DB	528029197	3	208/3	10 – 4	8.50	070810002
4D1435MVV300EB	528029207	3	230/3	10 – 4	8.50	070810002
4D1435MVV300FB	528029217	3	460/3	10 – 4	8.50	070810002
4D1435MVV300GB	528029227	3	575/3	10 – 4	8.50	070810002
4D1435MVV500DB	528029237	5	208/3	10 – 4	9.00	070810002
4D1435MVV500EB	528029247	5	230/3	10 – 4	9.00	070810002
4D1435MVV500FB	528029257	5	460/3	10 – 4	9.00	070810002
4D1435MVV500GB	528029267	5	575/3	10 – 4	9.00	070810002

4D1436MVV

Description	Part No.	hp	Voltage/ph	Cord	Trim	Impeller
3" SOLIDS, 4" DISCHARGE, 3450 RPM						
4D1436MVV750DD	528009087	7.5	208/3	8 – 4	4.63	082130172
4D1436MVV750ED	528009097	7.5	230/3	8 – 4	4.63	082130172
4D1436MVV750FD	528009107	7.5	460/3	10 – 4	4.63	082130172
4D1436MVV750GD	528009117	7.5	575/3	10 – 4	4.63	082130172
4D1436MVV1000DD	528009047	10	208/3	8 – 4	5	082130052
4D1436MVV1000ED	528009057	10	230/3	8 – 4	5	082130052
4D1436MVV1000FD	528009067	10	460/3	10 – 4	5	082130052
4D1436MVV1000GD	528009077	10	575/3	10 – 4	5	082130052
4D1436MVV1500DD	528009007	15	208/3	8 – 4	5.63	082130182
4D1436MVV1500ED	528009017	15	230/3	8 – 4	5.63	082130182
4D1436MVV1500FD	528009027	15	460/3	10 – 4	5.63	082130182
4D1436MVV1500GD	528009037	15	575/3	10 – 4	5.63	082130182

STANDARD LIMITED WARRANTY

Pentair Fairbanks Nijhuis® warrants its products against defects in material and workmanship for a period of 12 months from the date of shipment from Pentair Fairbanks Nijhuis or 18 months from the manufacturing date, whichever occurs first – provided that such products are used in compliance with the requirements of the Pentair Fairbanks Nijhuis catalog and technical manuals for use in pumping raw sewage, municipal wastewater or similar, abrasive-free, noncorrosive liquids.

During the warranty period and subject to the conditions set forth, Pentair Fairbanks Nijhuis, at its discretion, will repair or replace to the original user, the parts that prove defective in materials and workmanship. Pentair Fairbanks Nijhuis reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for prior sold and/or shipped units.

Start-up reports and electrical schematics may be required to support warranty claims. Warranty is effective only if Pentair Fairbanks Nijhuis authorized control panels are used. All seal fail and heat sensing devices must be hooked up, functional and monitored or this warranty will be void. Pentair Fairbanks Nijhuis will cover only the lower seal and labor thereof for all dual seal pumps. Under no circumstance will Pentair Fairbanks Nijhuis be responsible for the cost of field labor, travel expenses, rented equipment, removal/reinstallation costs or freight expenses to and from the factory or an authorized Pentair Fairbanks Nijhuis service facility.

This limited warranty will not apply: (a) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with the printed instructions provided; (b) to failures resulting from abuse, accident or negligence; (c) to normal maintenance services and parts used in connection with such service; (d) to units that are not installed in accordance with applicable local codes, ordinances and good trade practices; (e) if the unit is moved from its original installation location; (f) if unit is used for purposes other than for what it is designed and manufactured; (g) to any unit that has been repaired or altered by anyone other than Pentair Fairbanks Nijhuis or an authorized Pentair Fairbanks Nijhuis service provider; (h) to any unit that has been repaired using non factory specified/OEM parts.

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FAIRBANKS NIJHUIS®

USA
3601 FAIRBANKS AVENUE
KANSAS CITY, KANSAS 66106
630-859-7000, FAX 630-859-7060

THE NETHERLANDS
PARALLELWEG 4
7102 DE WINTERSWIJK
T +31 101543 547474

www.FairbanksNijhuis.com