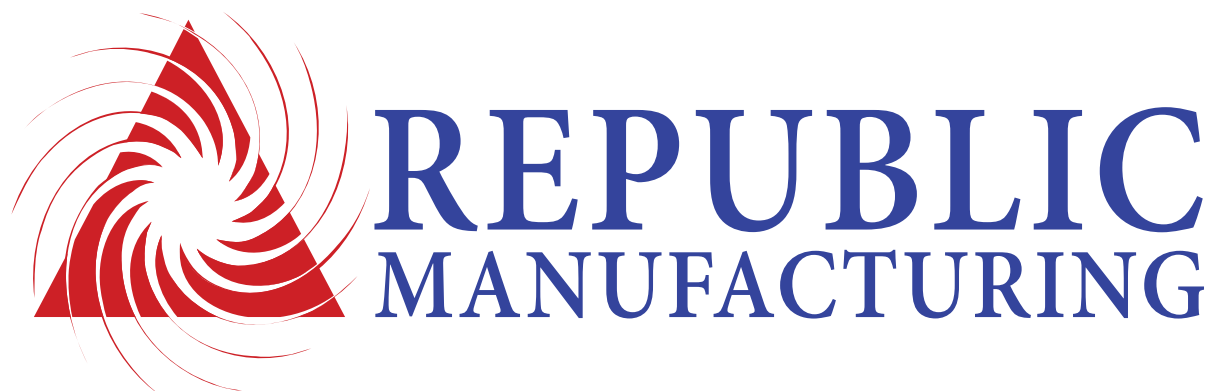


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Dry-Running Rotary Vane Vacuum Pumps and Compressors

Installation and Operation Manual

DRT 410-440K

DVT 416-440K

VRT 410-440

Republic Manufacturing®

www.republicsales.com

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Republic Manufacturing®

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Warning

Service procedures should only be performed by trained service personnel.

Important

Read the following safety instructions carefully. Disconnect blower from electrical source before attempting service.

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Safety Instructions



1. Always make sure power is switched off. Before beginning maintenance, remove plug from socket to avoid unintentional restarting.



2. Check if any part of the vacuum pump has been damaged during the transportation.



3. Do not dispose of solid or material into suction inlet directly or use filter before inlet, otherwise damage to vacuum pump may occur.



4. Do not dispose of acid, alkali or inflammable gas, otherwise explosion and damage may occur.



5. Do not dispose of liquid and air with high temperature.



6. Do not touch the vacuum pump to avoid burn damage; temperature may rise due to long time continuous operation and surfaces of the pump can reach 176 F.



7. DRT, DVT, and VRT rotary vane vacuum pumps work absolutely oil free. Do not lubricate with grease or oil under any circumstances.



8. Do not operate vacuum or pressure at levels higher than full loading vacuum/pressure. Do not operate beyond over-loading mark on rating plate or rating label. To prevent motor damage due to electric current overload relay, install adjustable pressure relief or vacuum limitation valve.
9. Model VRT is for vacuum applications down to an ultimate vacuum of 25 in.Hg.
10. Model DVT is for maximum pressure duties up to 9 psig and ultimate vacuum of 18 in.Hg.
11. Model DRT is for maximum overpressure duties up to 14.5 psig
12. The following ambient operating environment must be observed:
 - Ambient temperature: 41F-113F
 - Altitude of above sea level: 2624 ft max.
13. Relative humidity: 80% max
14. Storage conditions:
 - Dry
 - Dust-Free
 - Low vibration (<2.8mm/s)
 - Ambient temperature <104F

Operation Accessories

- Air Filter - to clean the air of debris before entering the pump.
- Vacuum Relief Valve - to control inlet pressure when pump is used on vacuum duties (VRT, DVT versions)
- Pressure Relief Valve - to control outlet pressure when pump is used on pressure duties (DRT, DVT versions)
- Non-Return Valve (Not Included with Pump) - to protect pump from running backwards during shut off. With pipelines exceeding 15 feet in length, the installation of non-return valves is highly recommended. When the vacuum pump is switched off while under vacuum, gas may flow back into inlet pipe. Install non-return valve or shut-off valve to avoid this.

Installation

- Upon installation, please check for and remove any obstruction around blower suction inlet and install under shelter to avoid motor damage or electric shock due to getting wet.
- An undisturbed fresh airflow to the pump is necessary to avoid overheating of vacuum pump.
- A distance of at least 4 inches must be maintained between pump motor fan and wall to avoid overheating.
- Heat may be produced during operation due to friction between air, carbon vane, and piping. Heat-resistant piping material is recommended within 4 ft of the pump.
- Section area of pipes must be at least the same diameter of pump's inlet flange.
- The mounted pipes should cause no tension on the pump's flange. Be careful of overhung load from piping on pump's manifold. If necessary, install a pipe support to reduce stress on pump's manifold.
- Avoid unusual or sudden diameter shrinkage, enlargement of curvature of piping to ensure best pump air efficiency.
- The vacuum pump can be placed on a horizontal surface without fixing or locking with screws.
- After wiring, jog pump to make sure rotation is in compliance with arrow direction. (View from the motor fan cover. The rotation should be clockwise.) If the rotation is incorrect with three-phase motor, exchange any two lines of the three wires. If the rotation is incorrect with a single-phase motor, please contact your supplier or manufacturer.

Connection and Operation



- Make sure the voltage and frequency of power supply fits the requested electrical condition marked on pump rating plate or label, otherwise injury or motor damage may occur due to incorrect voltage.



- Allowable voltage variance shall be within 5% of rating voltage, and frequency variance should be within 2%.



- Wire according to the wiring instruction inside the cover of terminal box, and connect ground lines to prevent an electrical leakage accident.



- Install overload protection according to the voltage marked on rating plate or label and choose the appropriate overload device.



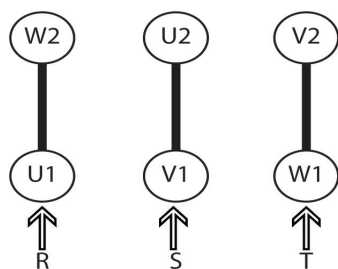
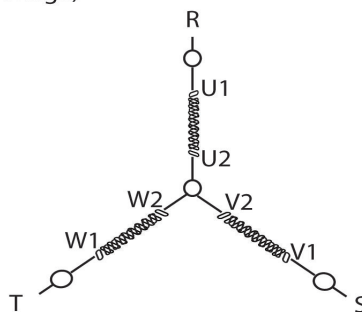
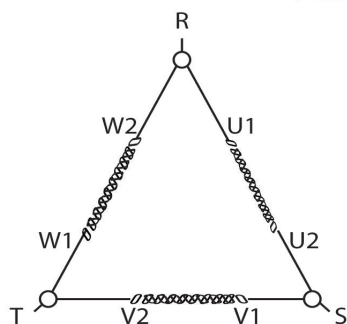
- Avoid turning pump switch on and off more than 10 times per hour, otherwise motor may overheat.



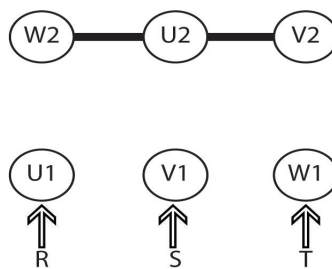
- For the tightening wire terminal connections (except terminal strips) and other conditions, see charts in “Torques” section of manual.

Connection Diagram

Phase (Double Voltage)

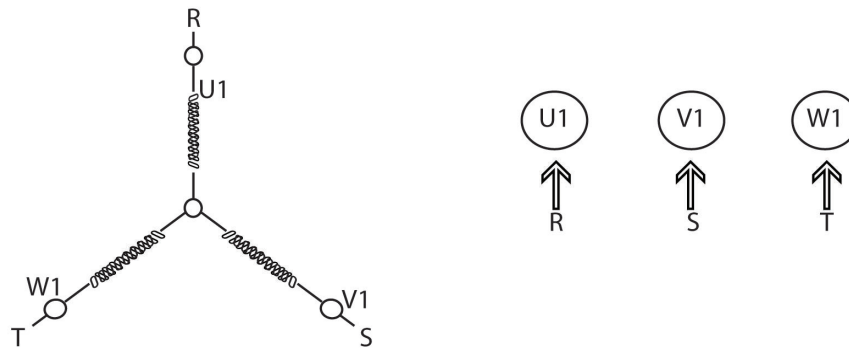


Low Voltage (Δ)

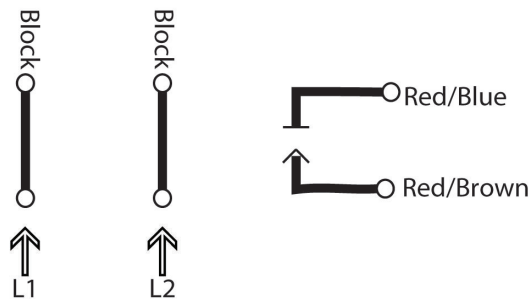


High Voltage (Y)

3 Phase (Single Voltage)



1 Phase

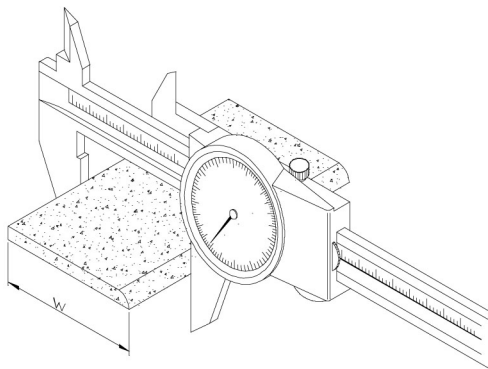


Maintenance

- Conveying air with high moisture may shorten the pump's service life. Air with a high moisture content should be avoided. If unavoidable, inspect pump's parts periodically to prevent pump damage or injury occurred due to corrosion.
- Bearings, carbon vanes and filters are consumable parts with limited life. Please inspect and replace periodically, especially in operations beyond normal ambient operating conditions.
- The inlet filter and the outlet filter must be cleaned at regular intervals, depending on the amount of dust in the air being pumped. Blow out the filter cartridges with compressed air gun from the inside outwards.
- If the filter cartridge is too dirty to be cleaned, it must be replaced. The cartridges can be taken out after the removal of the filter cover (part 30).
- DRT, DVT and VRT rotary vane vacuum pumps work absolutely oil free. Do not lubricate with grease or oil under any circumstances.
- Radial fan, hood, and motor should be inspected regularly for dirt. Soiling prevents cool air intake and may lead to overheating of the vacuum pump.
- Bearings are pre-lubricated and require no maintenance.

- Change Carbon Vanes as follows:

Model Number	Minimum Width of Carbon Vane (W)
VRT/DRT/DVT 410	1.063 in
VRT/DRT/DVT 416	1.063 in
VRT 425 DRT/DVT 425K	1.299 in
VRT 440 DRT/DVT 440K	1.299 in



Maintenance Schedule

Item	Check	Clean	Interval
Filter Cartridge	As needed	As needed	Monthly
Cooler	As needed	As needed	Monthly
Vanes	As needed	As needed	After 3000 hours and at least once per year
Radial Fan	As needed	As needed	Monthly
Hood	As needed	As needed	Monthly
Motor Surface	As needed	As needed	Monthly

Model Specifications

Type		Max. Capacity (CFM)		Ultimate Vacuum (in.Hg)		Max. Pressure (psig)		Noise Level dB(A)		lb
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	
VRT	410	5.9	7.1	25.0	25.0	n/a	n/a	60	62	47
	416	9.4	11.2	25.0	25.0	n/a	n/a	61	64	53
	425	14.7	17.7	25.0	25.0	n/a	n/a	62	67	71
	440	23.5	28.2	25.0	25.0	n/a	n/a	67	72	84
DRT	410	5.9	7.1	n/a	n/a	14.5	14.5	60	62	47
	416	9.4	11.2	n/a	n/a	14.5	14.5	62	64	53
	425K	14.7	17.7	n/a	n/a	14.5	14.5	62	67	71
	440K	23.5	28.2	n/a	n/a	14.5	14.5	65	68	95
DVT	410	5.9	7.0	15.0	15.0	7.0	7.0	56	59	67
	416	9.4	11.8	18.0	18.0	15.0	15.0	62	63	69
	425K	14.7	17.7	18.0	18.0	9.0	9.0	70	70	102
	440K	20.6	25.3	18.0	18.0	9.0	9.0	70	70	115

Type		Motor Capacity (HP)				Motor Speed (RPM)			
		3 Phase		1 Phase		3 Phase		1 Phase	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
VRT	410	0.5	1.0	0.5	1.0	1420	1700	1380	1630
	416	1.0	1.0	1.0	1.0	1420	1700	1360	1600
	425	1.0	1.5	1.0	1.5	1430	1720	1350	1600
	440	2.0	2.0	1.5	1.5	1420	1680	1350	1620
DRT	410	0.5	1.0	0.5	1.0	1420	1700	1380	1630
	416	1.0	1.0	1.0	1.0	1420	1700	1360	1600
	425K	1.5	2.0	1.5	n/a	1420	1690	1350	n/a
	440K	2.5	3.0	2.5	n/a	1420	1660	1380	n/a
DVT	410	0.5	1.0	0.5	1.0	1420	1700	1380	1630
	416	1.0	1.0	1.0	1.0	1420	1700	1360	1600
	425K	1.5	2.0	1.5	n/a	1420	1690	1350	n/a
	440K	2.5	3.0	n/a	n/a	1420	1660	n/a	n/a

Torques



Tightening Torques for Non-Electrical Connections

Thread	Kg-m	N-m	lbs-ft
M4	0.28-0.34	2.7-3.3	1.99-2.43
M5	0.37-0.45	3.6-4.4	2.65-3.25
M6	0.74-0.90	7.2-8.8	4.41-6.41
M8	2.20-2.70	21.6-26.4	15.93-19.47
M10	3.86-4.72	37.8-46.2	27.90-34.10
M12	6.43-7.85	63.0-77.0	46.44-56.76



Tightening Torques for Electrical Connections

Thread	Kg-m	N-m	lbs-ft
M4	0.31	0.8-1.2	0.59-0.89
M5	0.41	1.8-2.5	1.33-1.84



Tightening Torques for Metal Threaded Glands/Unions

Thread	Kg-m		N-m		lbs-ft	
	Min	Max	Min	Max	Min	Max
M12*1.5	0.41	0.61	4.0	6.0	2.95	4.43
M16*1.5	0.51	0.77	5.0	7.5	3.69	5.53
M20*1.5	0.61	0.92	6.0	9.0	4.43	6.64
M32*1.5	0.82	1.23	8.0	12.0	5.90	8.85
M40*1.5						



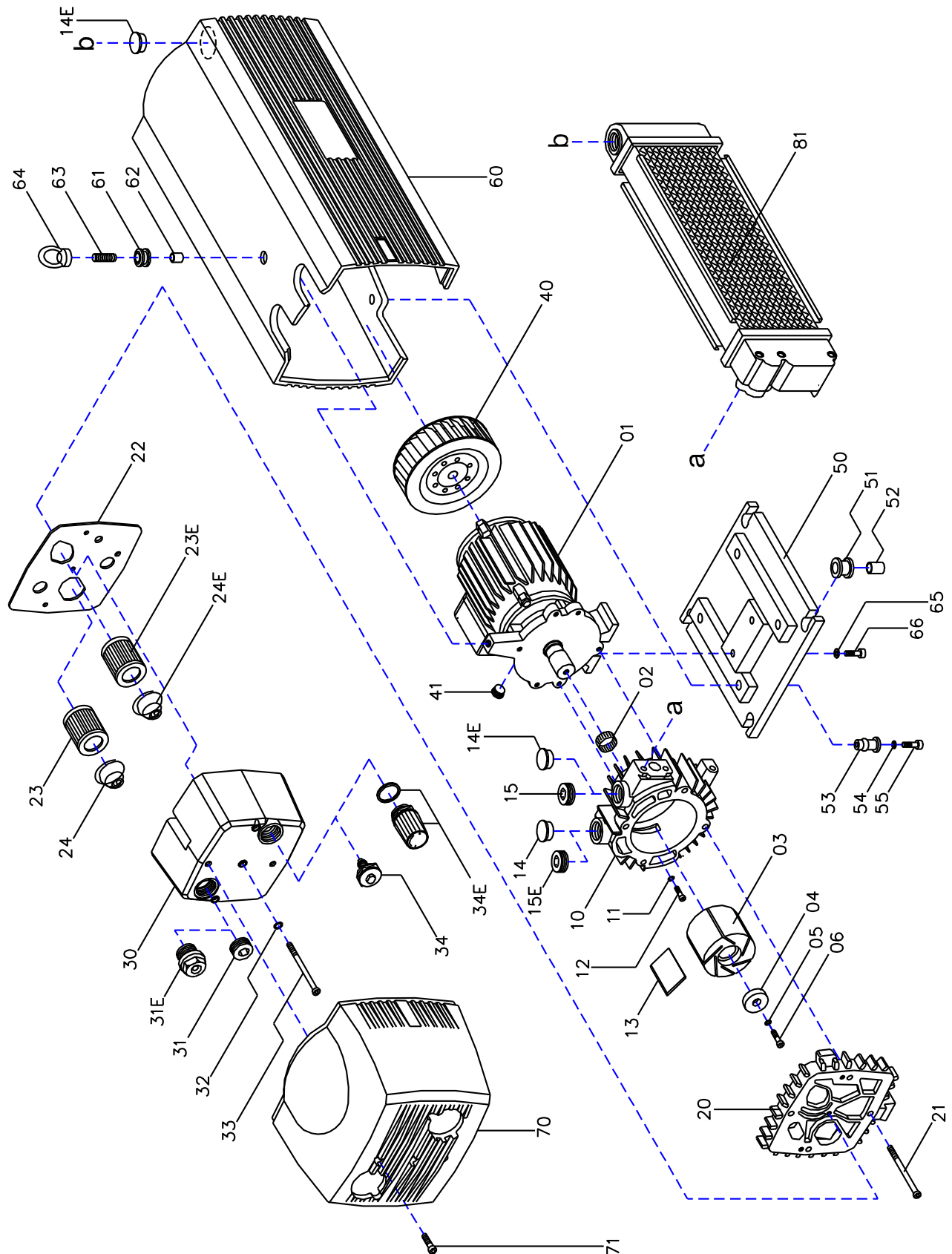
Tightening Torques for Plastic Threaded Glands/Unions

Thread	Kg-m		N-m		lbs-ft	
	Min	Max	Min	Max	Min	Max
M12*1.5	0.21	0.36	2.0	3.5	1.48	2.58
M16*1.5	0.31	0.41	3.0	4.0	2.21	2.95
M20*1.5	0.41	0.51	4.0	5.0	2.95	3.69
M32*1.5	0.51	0.72	5.0	7.0	3.69	5.16
M40*1.5						

VRT 410-440

DRT 410-440K

DVT 410-440K



VRT 410

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000001
3	Rotor	5000004
4	Clamping Disc	5000009
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000013
11	Lock Washer	5000017
12	Cylinder Body Screw	5000018
13	Carbon Vanes	5310000
14	Inlet Plug	5000022
15	Screw Plug	5000026
20	Cylinder Cover	5000031
21	Cylinder Cover Screw	5000034
22	Gasket	5000037
23	Filter Cartridge	C 44
24	Spring	5000040
30	Filter Cover	5000046
31	Screw Plug	5000049
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000051
34	Silencer Valve	5000054
40	Radial Fan	5000058
41	Plug	5000060
50	Base	5000061
51	Vibration Absorber	5000063
52	Sleeve	5000065
53	Rubber Element	5000067
54	Washer	5000069
55	Base Screw	5000070
60	Hood	5000072
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000081
70	Front Hood	5000083
71	Hexagon Socket Hood Screw	5000085

VRT 416

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000002
3	Rotor	5000006
4	Clamping Disc	5000009
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000014
11	Lock Washer	5000017
12	Cylinder Body Screw	5000019
13	Carbon Vanes	5310001
14	Inlet Plug	5000023
15	Screw Plug	5000026
20	Cylinder Cover	5000031
21	Cylinder Cover Screw	5000035
22	Gasket	5000037
23	Filter Cartridge	C 64/3
24	Spring	5000040
30	Filter Cover	5000046
31	Screw Plug	5000049
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000052
34	Silencer Valve	5000054
40	Radial Fan	5000058
41	Plug	5000060
50	Base	5000061
51	Vibration Absorber	5000063
52	Sleeve	5000065
53	Rubber Element	5000067
54	Washer	5000069
55	Base Screw	5000070
60	Hood	5000073
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000081
70	Front Hood	5000083
71	Hexagon Socket Hood Screw	5000085

VRT 425

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000003
3	Rotor	5000007
4	Clamping Disc	5000010
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000015
11	Lock Washer	5000017
12	Cylinder Body Screw	5000020
13	Carbon Vanes	5310002
14	Inlet Plug	5000024
15	Screw Plug	5000028
20	Cylinder Cover	5000033
21	Cylinder Cover Screw	5000036
22	Gasket	5000039
23	Filter Cartridge	C 75/2
24	Spring	5000042
30	Filter Cover	5000048
31	Screw Plug	5000049
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000053
34	Silencer Valve	5000054
40	Radial Fan	5000059
41	Plug	5000060
50	Base	5000062
51	Vibration Absorber	5000064
52	Sleeve	5000066
53	Rubber Element	5000068
54	Washer	5000069
55	Base Screw	5000071
60	Hood	5000074
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000082
70	Front Hood	5000084
71	Hexagon Socket Hood Screw	5000086

VRT 440

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000003
3	Rotor	5000008
4	Clamping Disc	5000010
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000016
11	Lock Washer	5000017
12	Cylinder Body Screw	5000021
13	Carbon Vanes	5310003
14	Inlet Plug	5000024
15	Screw Plug	5000028
20	Cylinder Cover	5000033
21	Cylinder Cover Screw	5000037
22	Gasket	5000039
23	Filter Cartridge	C 75/2
24	Spring	5000042
30	Filter Cover	5000048
31	Screw Plug	5000049
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000053
34	Silencer Valve	5000054
40	Radial Fan	5000059
41	Plug	5000060
50	Base	5000062
51	Vibration Absorber	5000064
52	Sleeve	5000066
53	Rubber Element	5000068
54	Washer	5000069
55	Base Screw	5000071
60	Hood	5000075
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000082
70	Front Hood	5000084
71	Hexagon Socket Hood Screw	5000086

DRT 410

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000001
3	Rotor	5000004
4	Clamping Disc	5000009
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000013
11	Lock Washer	5000017
12	Cylinder Body Screw	5000018
13	Carbon Vanes	5310000
14	Inlet Plug	5000022
14E	Outlet Plug	5000025
15	Screw Plug	5000027
20	Cylinder Cover	5000031
21	Cylinder Cover Screw	5000034
22	Gasket	5000037
23	Filter Cartridge	C 44
23E	Filter Cartridge	C 44
24	Spring	5000040
24E	Pressure Spring	5000040
30	Filter Cover	5000046
31	Screw Plug	5000049

Position No.	Description	Part No.
32	Sealing Ring	5000050
33	Filter Cover Screw	5000051
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000058
41	Plug	5000060
50	Base	5000061
51	Vibration Absorber	5000063
52	Sleeve	5000065
53	Rubber Element	5000067
54	Washer	5000069
55	Base Screw	5000070
60	Hood	5000072
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000081
70	Front Hood	5000083
71	Hexagon Socket Hood Screw	5000085

DRT 416

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000002
3	Rotor	5000006
4	Clamping Disc	5000009
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000014
11	Lock Washer	5000017
12	Cylinder Body Screw	5000019
13	Carbon Vanes	5310001
14	Inlet Plug	5000023
14E	Outlet Plug	5000025
15	Screw Plug	5000026
20	Cylinder Cover	5000031
21	Cylinder Cover Screw	5000035
22	Gasket	5000037
23	Filter Cartridge	C 64/3
23E	Filter Cartridge	C 63
24	Spring	5000040
24E	Pressure Spring	5000040
30	Filter Cover	5000046
31	Screw Plug	5000049

Position No.	Description	Part No.
32	Sealing Ring	5000050
33	Filter Cover Screw	5000052
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000058
41	Plug	5000060
50	Base	5000061
51	Vibration Absorber	5000063
52	Sleeve	5000065
53	Rubber Element	5000067
54	Washer	5000069
55	Base Screw	5000070
60	Hood	5000073
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000081
70	Front Hood	5000083
71	Hexagon Socket Hood Screw	5000085

DRT 425K

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000003
3	Rotor	5000007
4	Clamping Disc	5000010
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000015
11	Lock Washer	5000017
12	Cylinder Body Screw	5000020
13	Carbon Vanes	5310002
14	Inlet Plug	5000024
14E	Outlet Plug	5000026
15	Screw Plug	5000030
20	Cylinder Cover	5000033
21	Cylinder Cover Screw	5000036
22	Gasket	5000039
23	Filter Cartridge	C 75/2
23E	Filter Cartridge	C 78/6
24	Spring	5000042
24E	Pressure Spring	5000042
30	Filter Cover	5000048
31	Screw Plug	5000049

Position No.	Description	Part No.
32	Sealing Ring	5000050
33	Filter Cover Screw	5000053
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000059
41	Plug	5000060
50	Base	5000062
51	Vibration Absorber	5000063
52	Sleeve	5000066
53	Rubber Element	5000068
54	Washer	5000069
55	Base Screw	5000071
60	Hood	5000074
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000082
70	Front Hood	5000084
71	Hexagon Socket Hood Screw	5000086
80	Cooler	5000087

DRT 440K

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000003
3	Rotor	5000008
4	Clamping Disc	5000010
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000016
11	Lock Washer	5000017
12	Cylinder Body Screw	5000021
13	Carbon Vanes	5310003
14	Inlet Plug	5000024
14E	Outlet Plug	5000026
15	Screw Plug	5000030
20	Cylinder Cover	5000033
21	Cylinder Cover Screw	5000037
22	Gasket	5000039
23	Filter Cartridge	C 75/2
23E	Filter Cartridge	C 78/6
24	Spring	5000042
24E	Pressure Spring	5000042
30	Filter Cover	5000048
31	Screw Plug	5000049

Position No.	Description	Part No.
32	Sealing Ring	5000050
33	Filter Cover Screw	5000053
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000059
41	Plug	5000060
50	Base	5000062
51	Vibration Absorber	5000063
52	Sleeve	5000066
53	Rubber Element	5000068
54	Washer	5000069
55	Base Screw	5000071
60	Hood	5000075
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000082
70	Front Hood	5000084
71	Hexagon Socket Hood Screw	5000086
80	Cooler	5000088

DVT 416

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000002
3	Rotor	5000006
4	Clamping Disc	5000009
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000014
11	Lock Washer	5000017
12	Cylinder Body Screw	5000019
13	Carbon Vanes	5310001
14	Inlet Plug	5000023
20	Cylinder Cover	5000032
21	Cylinder Cover Screw	5000035
22	Gasket	5000038
23	Filter Cartridge	C 64/3
23E	Filter Cartridge	C 63
24	Spring	5000041
24E	Pressure Spring	5000044
30	Filter Cover	5000047
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000052
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000058
41	Plug	5000060
50	Base	5000061
51	Vibration Absorber	5000063
52	Sleeve	5000065
53	Rubber Element	5000067
54	Washer	5000069
55	Base Screw	5000070
60	Hood	5000073
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000081
70	Front Hood	5000083
71	Hexagon Socket Hood Screw	5000085

DVT 425K

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000003
3	Rotor	5000007
4	Clamping Disc	5000010
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000015
11	Lock Washer	5000017
12	Cylinder Body Screw	5000020
13	Carbon Vanes	5310002
14	Inlet Plug	5000024
20	Cylinder Cover	5000033
21	Cylinder Cover Screw	5000036
22	Gasket	5000039
23	Filter Cartridge	C 75/2
23E	Filter Cartridge	C 78/6
24	Spring	5000042
24E	Pressure Spring	5000045
30	Filter Cover	5000048
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000053
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000059
41	Plug	5000060
50	Base	5000062
51	Vibration Absorber	5000064
52	Sleeve	5000066
53	Rubber Element	5000068
54	Washer	5000069
55	Base Screw	5000071
60	Hood	5000074
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000082
70	Front Hood	5000084
71	Hexagon Socket Hood Screw	5000086
80	Cooler	5000087

DVT 440K

Position No.	Description	Part No.
2	Star - Tolerance Ring	5000003
3	Rotor	5000008
4	Clamping Disc	5000010
5	Spring Washer	5000011
6	Hexagon Socket Head Screw	5000012
10	Cylinder Body	5000016
11	Lock Washer	5000017
12	Cylinder Body Screw	5000021
13	Carbon Vanes	5310003
14	Inlet Plug	5000024
20	Cylinder Cover	5000033
21	Cylinder Cover Screw	5000037
22	Gasket	5000039
23	Filter Cartridge	C 75/2
23E	Filter Cartridge	C 75/2
24	Spring	5000042
24E	Pressure Spring	5000045
30	Filter Cover	5000048
32	Sealing Ring	5000050

Position No.	Description	Part No.
33	Filter Cover Screw	5000053
34E	Pressure Relief Valve	5000057
40	Radial Fan	5000059
41	Plug	5000060
50	Base	5000062
51	Vibration Absorber	5000064
52	Sleeve	5000066
53	Rubber Element	5000068
54	Washer	5000069
55	Base Screw	5000071
60	Hood	5000075
61	Rubber Bushing	5000076
62	Space Tube	5000077
63	Hexagon Socket Set Screw	5000078
64	Ring Nut	5000079
65	Washer	5000080
66	Hexagon Socket Base Screw	5000082
70	Front Hood	5000084
71	Hexagon Socket Hood Screw	5000086
80	Cooler	5000088



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