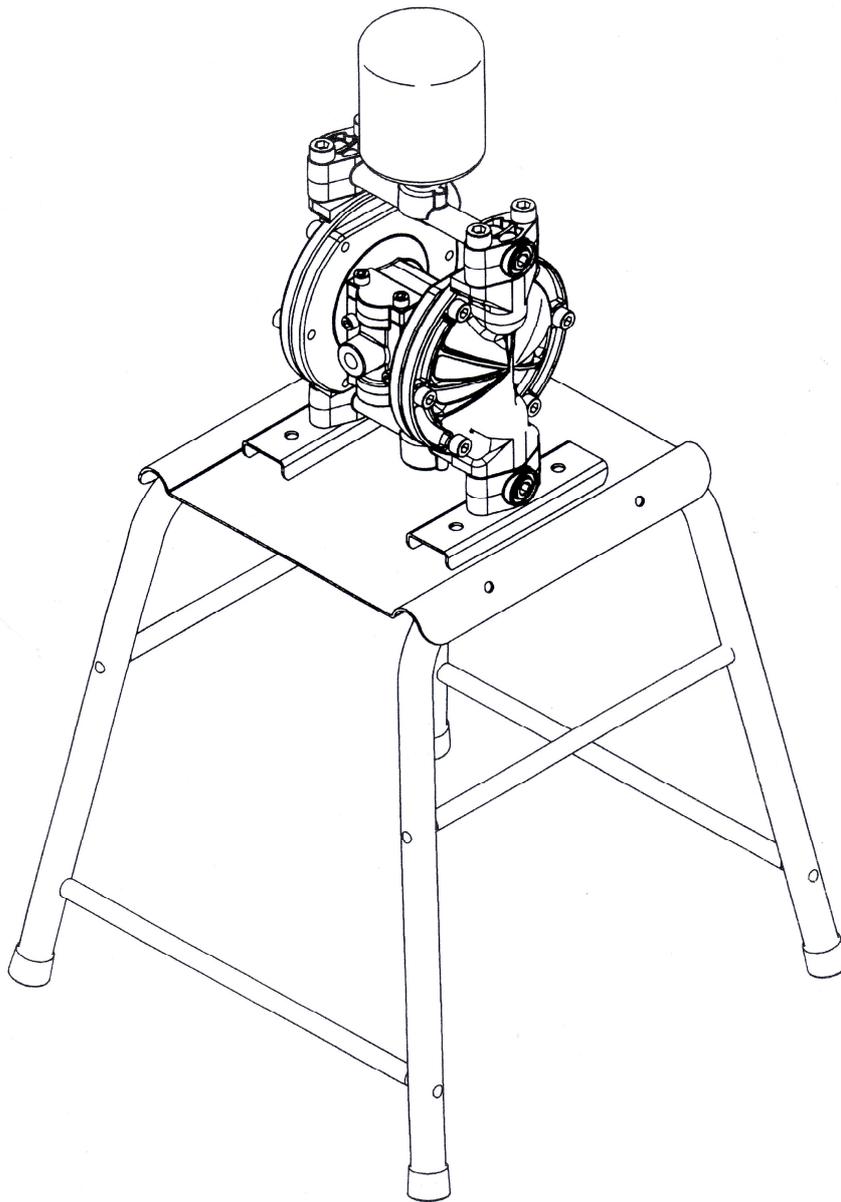


KDP3

Diaphragm Pump

Instruction Manual



This instruction manual contains important information about safety precautions, warnings, cautions and instructions for safe operation. Before operation, be sure to read this instruction manual thoroughly so that you can use our product safely and effectively for a long time. Keep this booklet in an appropriate place for immediate reference.

INSTALLATION

Place the pump on a firm, level and stable support to prevent movement during operation.

The distance between the pump and the fluid (height of suction) must be as short as possible.

Connect the fluid suction tube and the fluid bypass tube.

Connect the 3/8" hose adapter to one of the fluid outlets.

Connect the fluid outlet tube and the air outlet tube to both the pump and the spray gun.

Connect the air supply to the air inlet on the pump – do not turn the air supply on. It is best for the air supply to pass through a filter regulator to remove dirt, scale and entrained water and oil.

OPERATION

Ensure the air inlet to the pump is closed and the air supply to the spray guns is closed.

Turn on the air supply.

Slowly open the air valve / regulator on the pump and check fittings for leaks. If there are no leaks are present, close the regulator. Air inlet pressure should not exceed 5kg / cm².

Follow the manufacturers directions for the mixing and preparation of the material to be pumped. Strain the material using a fine mesh screen to prevent the entry of foreign matter and clogging of fluid passageways.

Place the suction tube into the container with the material to be pumped.

Ensure the fluid outlets to the spray guns are closed and the bypass outlet is open.

Slowly increase the air supply pressure. The material to be pumped should now begin to circulate.

Close the bypass valve and with the spray gun directed into the material container open the fluid outlet on the pump. Slowly and carefully pull the gun trigger so that the material flows through the gun.

Adjust pressure as required to attain the correct spraying characteristics.

If the pump is to be stopped for a period of time, turn the regulator knob counter clockwise to reduce pressure in the system and open the fluid bypass valve.

Discharge the residual air and fluid by directing the spray gun onto the inside wall of the material container and slowly pulling trigger until material ceases to flow.

CLEANING

At the end of the working day place open the fluid by pass valve and direct the spray gun onto the inside wall of the material container and slowly pull trigger until material ceases to flow.

Remove the suction tube from the material and place in a container of clean suitable solvent.

Flush the fluid lines by closing the by pass valve and direct the spray gun onto the inside wall of the material container and slowly pulling trigger. After flushing close fluid outlet to the gun and pull trigger to empty lines. Open the by pass valve and flush pump body with solvent.



WARNING

DO NOT USE:

ANY HALOGENATED HYDROCARBON SOLVENTS, SUCH AS TRICHLOROETHANE, METHYLENE CHLORIDE OR SOMETHING LIKE THAT;

ANY INFLAMMABLE OR VERY TOXIC-PRODUCTS SUCH AS PETROL, KEROSENE, INFLAMMABLE SOLVENTS OR COMBUSTIBLE GASES;

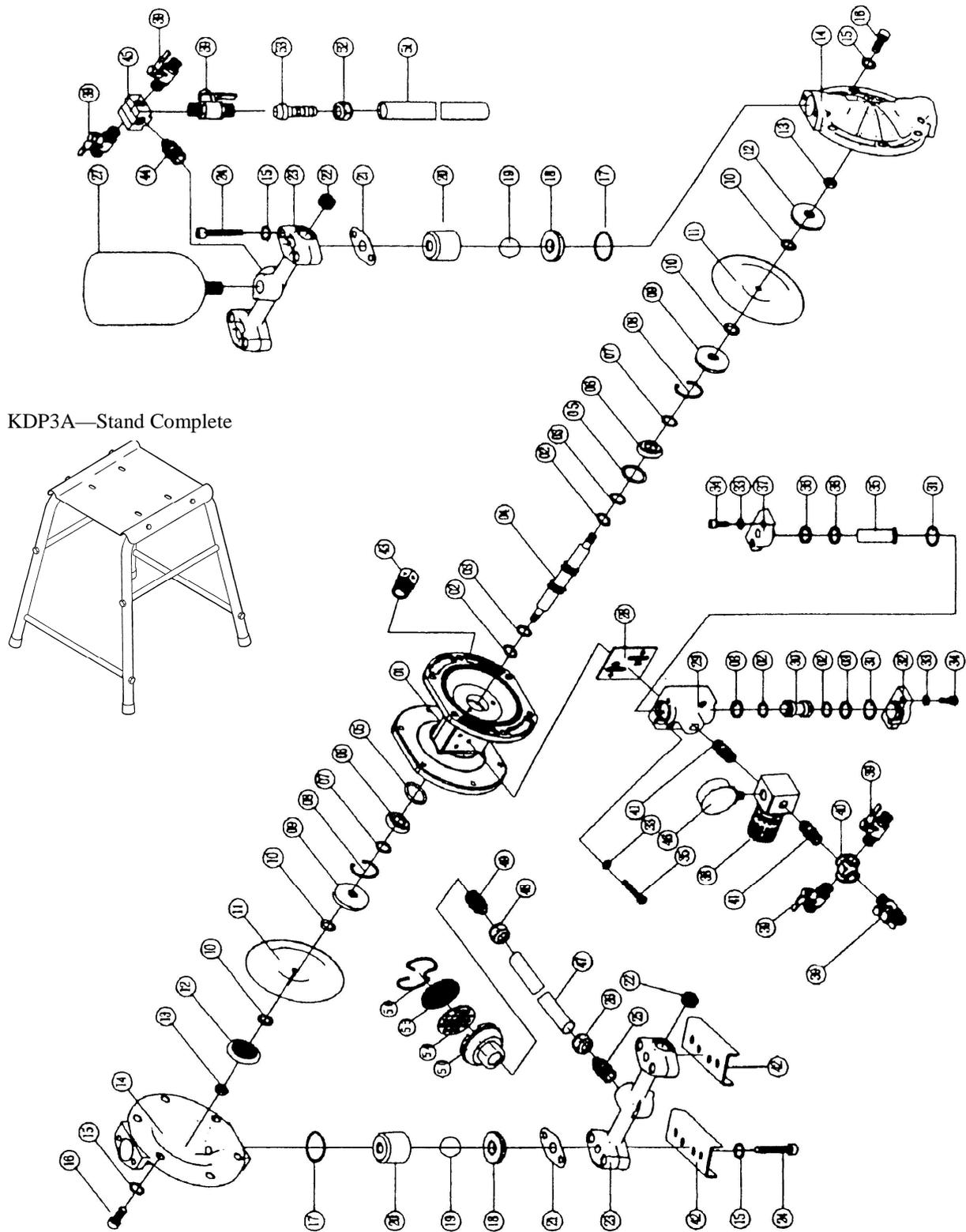
ANY HERBICIDE OR PESTICIDE

ANY RADIOACTIVE FLUID

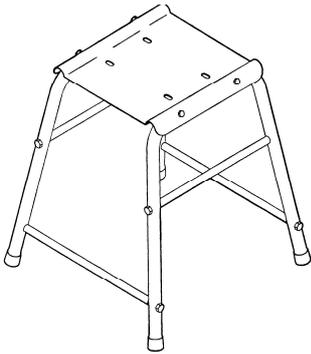
WARNING

Before attempting any repair or replacement of worn parts ensure that the air pressure within the pump system has been released and the air supply to the pump is disconnected.

KDP3 Parts Drawing



KDP3A—Stand Complete



KDP3 Parts Listing

Item	Part Number	Description	Qty	Item	Part Number	Description	Qty
01	KDP3.01	Pump Body	1	29	KDP3.29	Valve Body	1
02	KDP3.02	O Ring 12 x 3	4	30	KDP3.30	Piston	1
03	KDP3.03	Anti Friction Seal	4	31	KDP3.31	O Ring 20 x 2	2
04	KDP3.04	Connection Shaft	1	32	KDP3.32	Cover Body Valve	1
05	KDP3.05	O Ring 24 x 3	2	33	KDP3.33	Spring Washer	6
06	KDP3.06	Busch Neck	2	34	KDP3.34	Screw M6 x 20L	4
07	KDP3.07	O Ring 14 x 2	2	35	KDP3.35	Pin	1
08	KDP3.08	Retaining Ring	2	36	KDP3.36	O Ring 10 x 2	2
09	KDP3.09	Aluminium Washer	2	37	KDP3.37	Cover Body Valve	1
10	KDP3.10	Stainless Steel Nut	4	38	KDP3.38	Valve Throttle	1
11	KDP3.11	Diaphragm	2	39	KDP3.39	Ball Cock	6
12	KDP3.12	Aluminium Washer	2	40	KDP3.40	Adapter	1
13	KDP3.13	Stainless Steel Nut	2	41	KDP3.41	Nipple 1/4 x 1/4	2
14	KDP3.14	Diaphragm Chamber	2	42	KDP3.42	Base Frame	2
15	KDP3.15	Spring Washer	16	43	KDP3.43	Muffler	1
16	KDP3.16	Screw M8 x 20L	20	44	KDP3.44	Nipple 3/8 x 1/4	1
17	KDP3.17	O Ring 20.8 x 2.6	4	45	KDP3.45	Adapter	1
18	KDP3.18	Valve Seat	4	46	KDP3.46	Pressure Gauge	1
19	KDP3.19	Ball Valve 5/8	4	47	KDP3.47	Suction Hose	1
20	KDP3.20	Box - Ball valve	4	48	KDP3.48	Adapter Nut	1
21	KDP3.21	Gasket	4	49	KDP3.49	Adapter	1
22	KDP3.22	Screw 3/8 PT	5	50	KDP3.50	Strainer Assembly	1
23	KDP3.23	Discharge Metal	2	51	KDP3.51	Discharge Hose	1
24	KDP3.24	Screw M8 x 45L	8	52	KDP3.52	Nut, Fitting	1
25	KDP3.25	Adapter	1	53	KDP3.53	Fitting	1
26	KDP3.26	Adapter Nut	1	54	KDP3.54	Plastic Filter	1
27	KDP3.27	Air Chamber	1	55	KDP3.55	Stainless Steel Filter	1
28	KDP3.28	Gasket	1	56	KDP3.56	Stainless Steel Spring	1

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