



Airless Paint Sprayer

DP6382 AIRLESS PAINT SPRAYER

Operation Manual for

1.5HP electric diaphragm type airless paint kit



There are important warnings and information in the manual, please read it carefully.



Safety rules:

1. Read carefully and understand entirely the following instructions before using the product.
2. The product should be placed on a smooth surface. The user should wear necessary safety clothing.
3. The working Area is well-ventilated. The cable and hoses can't be pressed by anything. To avoid any damage, hold the hose when the product is moved.
4. The power and frequency used should be compatible with that on the label, the power should be grounded properly. Don't operate it with low voltage.
5. Make sure the all the fittings are tight, and hoses are connected properly before you use the machine.
6. To get a good performances, make sure the painting used is clean,, pure, use a filter bigger than 80.
7. The pressure adjustment can't be more than 22.5MPa, if you need to replace the hose, it should be from the manufacturer.
8. Never point the spray gun at yourself or anyone else.
9. Don't use it to spray acid products, corrosion solvents or toxic chemicals. Never use with methylene chloride.
10. Never eat anything or smoke during operation.
11. After use it, discharge the paint, release the pressure, then turn off the machine. Clear the parts with cleanser.
12. Shut off the power during transportation, keep the motor and plug from water or paint. Keep the machine clean and dry.
13. Use proper tools when to tight, adjust or maintain the machine with proper procedures, avoid damage machine and injury of the user.
14. Never change the structure of the machine, always use the parts from the manufacturer.



Technical data

Item	Description
Model	DP6382 airless sprayer
Power of motor	1.1KW
Voltage/Frequency	220-240V/50Hz
Max. working pressure	22.5MPa
Max. flow	4L/min
Max. tip	0.025"
Length of wire	3M
G.W./N.W.:	50/48KGS
Overall size	67×53×54.5CM

Setting-up

1. Install the machine as the diagram

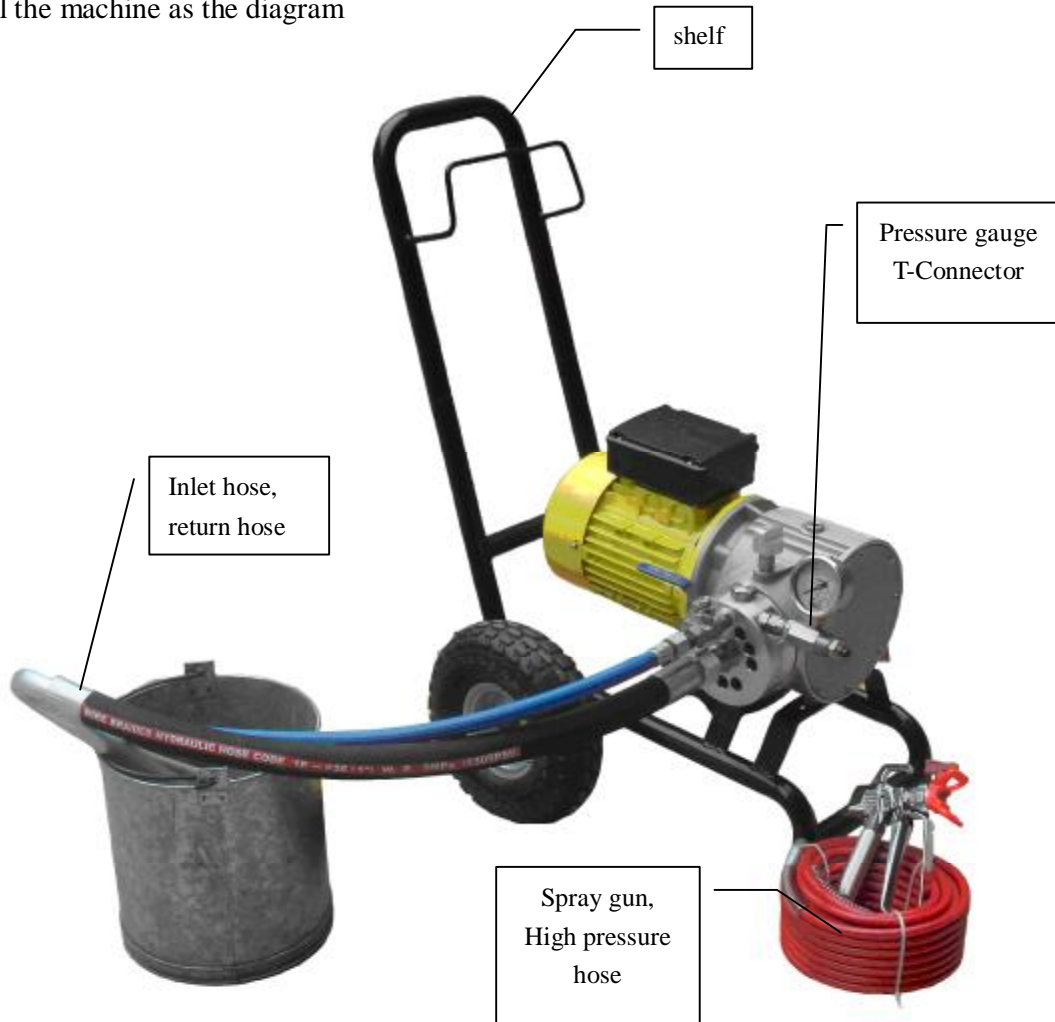


Figure 1

Caution: Open the inlet valve stem before the inlet valve is installed (Figure 2)

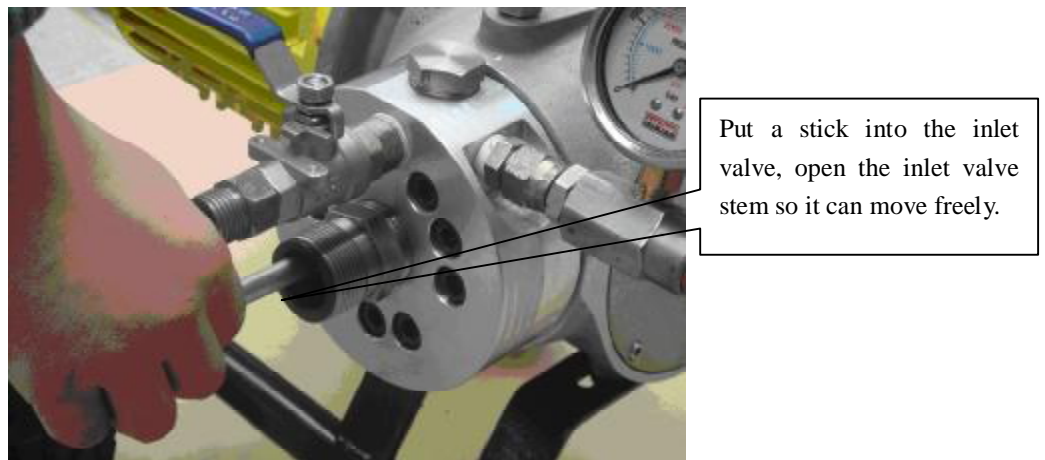


Figure 2

Preparation of the operation

Dip the inlet hose into water, turn on the motor, tighten the pressure valve(Figure 3, left) Clockwise, Close the outlet valve clockwise when some water is sucked and comes out for outlet valve (Figure3,right).When the pressure reaches up to about 20MPa, check if there is any leakage on the outlet hose and other connections, if no, turn on the spray gun and try to spray (if there is no water in inlet hose, hold the inlet hose, fill some water in it then turn on and off the motor for several times until water comes out for the return hose)

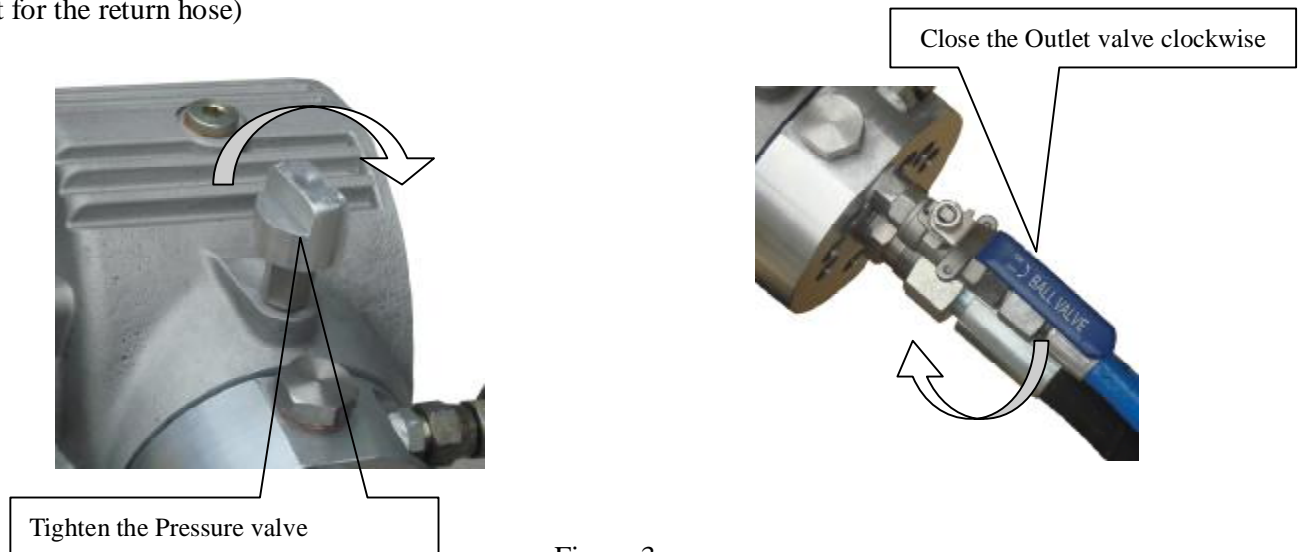


Figure 3

Painting Operation

1. Keep about 350-400mm between the gun and the surface to be painted and also keep the gun perpendicular to the surface.(Figure 4)
2. Move the spray gun before the trigger of gun is activated. Move the spray gun regularly during operation. Release the trigger in the end of painting, then stop moving. The moving speed will be varied with different painting, spraying pressure, and the distance between the spray gun and the surface to be painted.
3. To keep the painting smooth, Paint the surface horizontally and vertically. The time difference between two paintings depends on the paint used. Paint for second time after the first painting is almost dry.

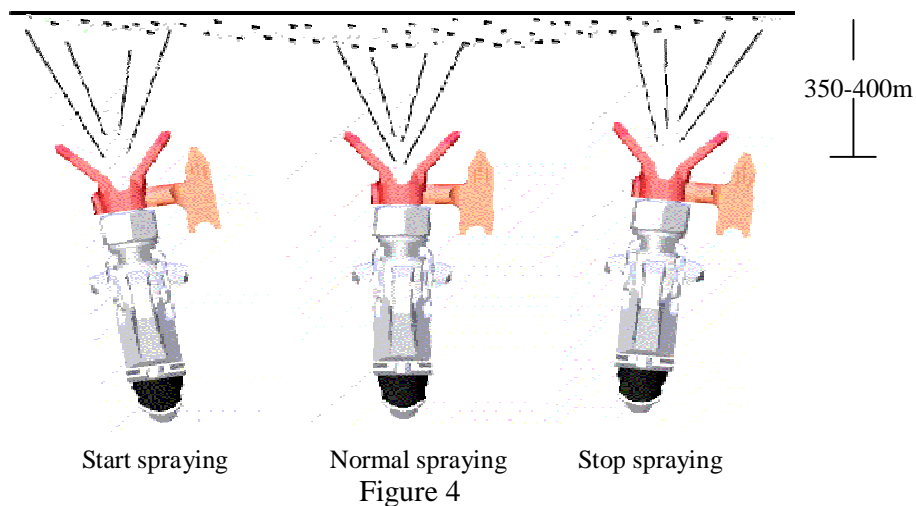


Figure 4

Caution: If the tip is blocked during operation, turn the tip 180° , anticlockwise for several times, it will spray properly when it is turned back to the spraying Position.

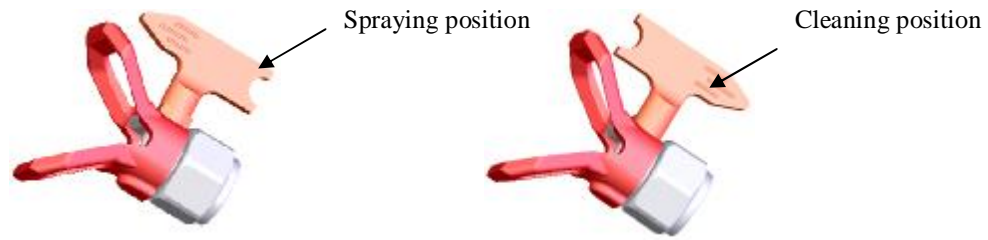


Figure 5

Stop of operation

When the operation is finished, loosen the pressure valve (Figure 6. left), open the outlet valve anticlockwise (Figure 6.right), release the pressure to zero, turn off the motor, the motor will be burned if it is turned off without the pressure release completely!(Figure 6)

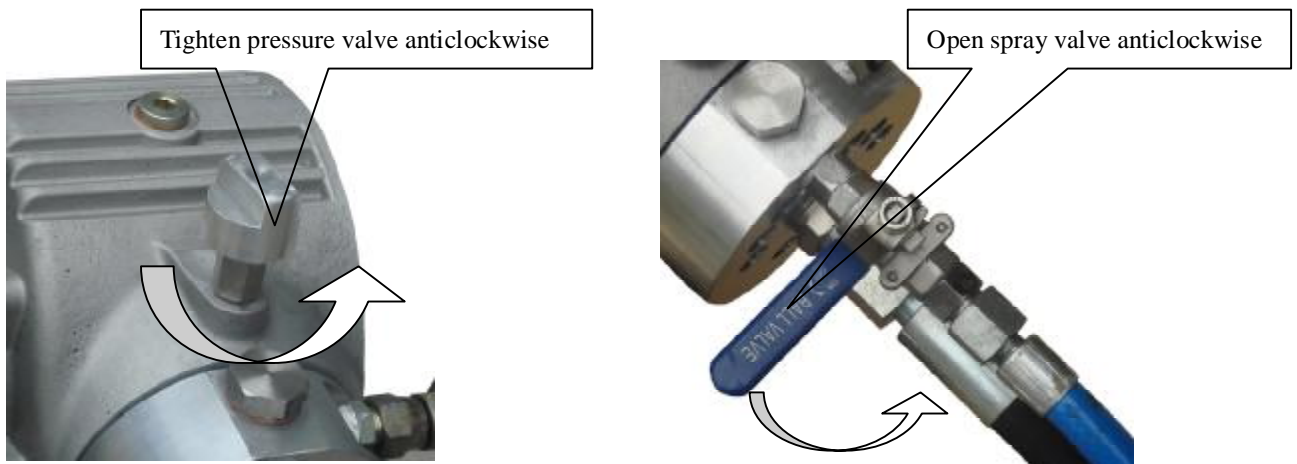


Figure 6

Cleaning and Storage

1. Clean the sprayer as soon as the painting is finished, remove the paint left on the parts so it won't get hard and block anything, Use suitable cleanser instead of paint to clean the sprayer, spray it till all the paint comes out from pump , hose and spray gun.
2. Clean the filter regularly. Remove the handle: take out the filter stem inside the handle and wash it,

then install and tighten it, replace it if there is any damage.

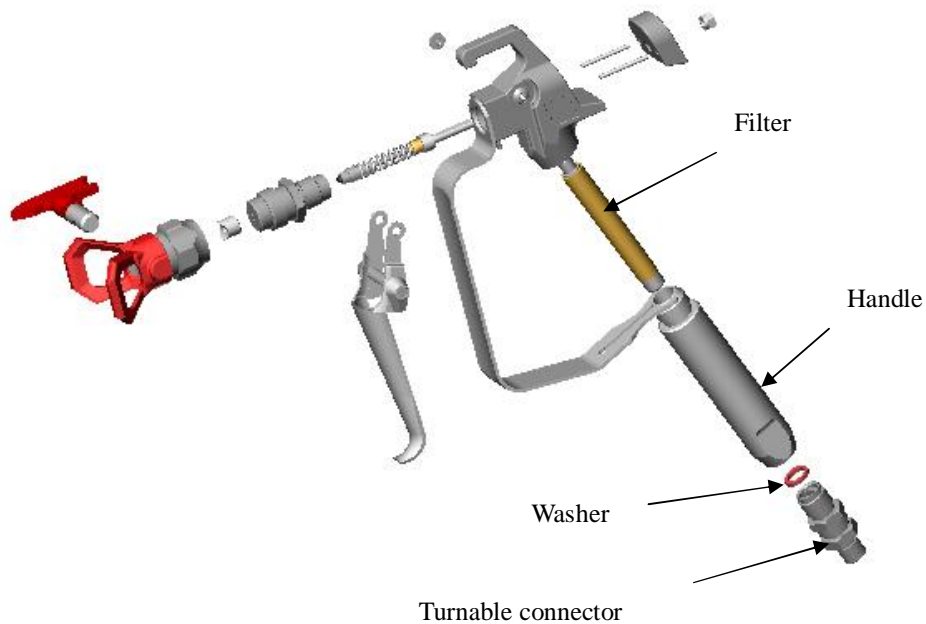


Figure 7.

3. If the painting is not smooth, check and clean the inlet filter, clean it after every use.
4. Check the fittings regularly to make sure there is no any leakage.
5. Check the oil inlet filter, prevent any other thing from the piston.(Figure 8)

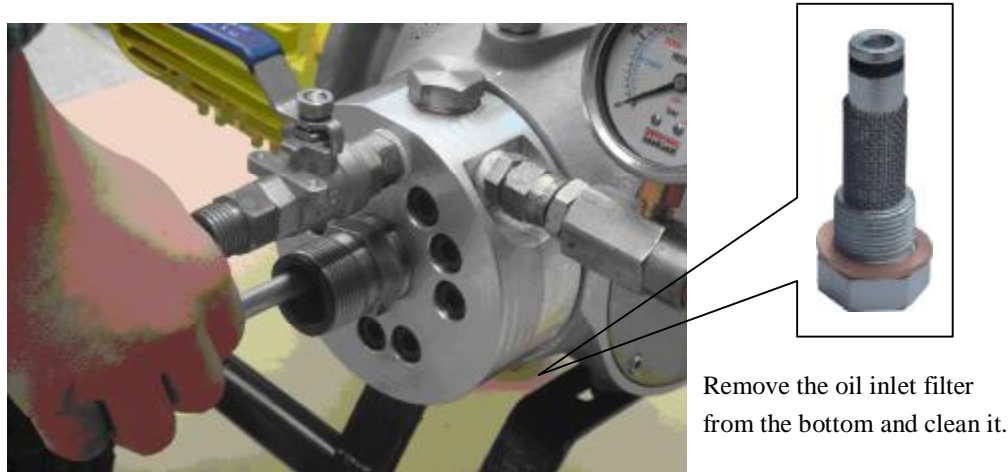


Figure 8

6. After 3100 hours use of the machine, check if there is enough hydraulic oil and if it's clean. (Check it from the hole. Figure 9).If there is no enough oil but clean, add some; if the oil is not clean, replace it immediately. Clean the oil tank with kerosene, then fill hydraulic oil till it is about 85% of the capacity (No 46 hydraulic oil is recommended)



Check oil value through it.

Figure 9.

Problems and solutions

Problem	Cause	Solution
The machine doesn't start	<ol style="list-style-type: none"> 1. The voltage is too low or power supply used is not compatible with the machine. 2. The Switch is disconnected 3. Pressure valve is not released or some pressure inside it 4. Paint is solidified inside the pump 	<ol style="list-style-type: none"> 1. Check the correct connection to the power supply 2. Check if the switch is on 3. Loosen the pressure valve and open the outlet valve, release pressure 4. Clean the pump.
The product doesn't suck paint	<ol style="list-style-type: none"> 1. The suction filter is clogged 2. Inlet hose is air leaky. 3. The inlet valve is sticky. 4. The diaphragm is damaged 	<ol style="list-style-type: none"> 1. Clean or replace the filter 2. Check if the seal of inlet valve is attached, the connection of inlet hose. 3. Refer to Figure 2, open the inlet valve stem 4. Replace the diaphragm.
The machine sucks but doesn't reach the pressure desired	<ol style="list-style-type: none"> 1. The spray valve is not closed tightly, some returned flow. 2. Inlet valve or outlet valve is dirty. 3. The diaphragm is damaged. 	<ol style="list-style-type: none"> 1. Close the spray valve, no returned flow 2. Remove the inlet valve or outlet valve and clean it. 3. Replace the diaphragm.
The pressure drops considerably when the trigger is pressed	<ol style="list-style-type: none"> 1. Tip is too big or damaged 2. The paint is too dense 3. Leakage in inlet hose 	<ol style="list-style-type: none"> 1. Replace the tip 2. Dilute the paint, if possible 3. Check the inlet hose
Normal pressure, but paint is not atomized, or atomization is not enough	<ol style="list-style-type: none"> 1. The tip is clogged 2. The paint is too dense 3. The filter of spray gun is too fine or clogged 4. The tip is not installed properly 	<ol style="list-style-type: none"> 1. Refer to Figure 5 and clean it 2. Dilute the paint, if possible 3. Clean or replace the filter of spray gun 4. Refer to Figure 5, turn the tip to the position of spraying,
The atomization is imperfect	Tip is broken	Replace the tip

Before any check or replacement of parts, always turn off the machine and release the pressure completely.

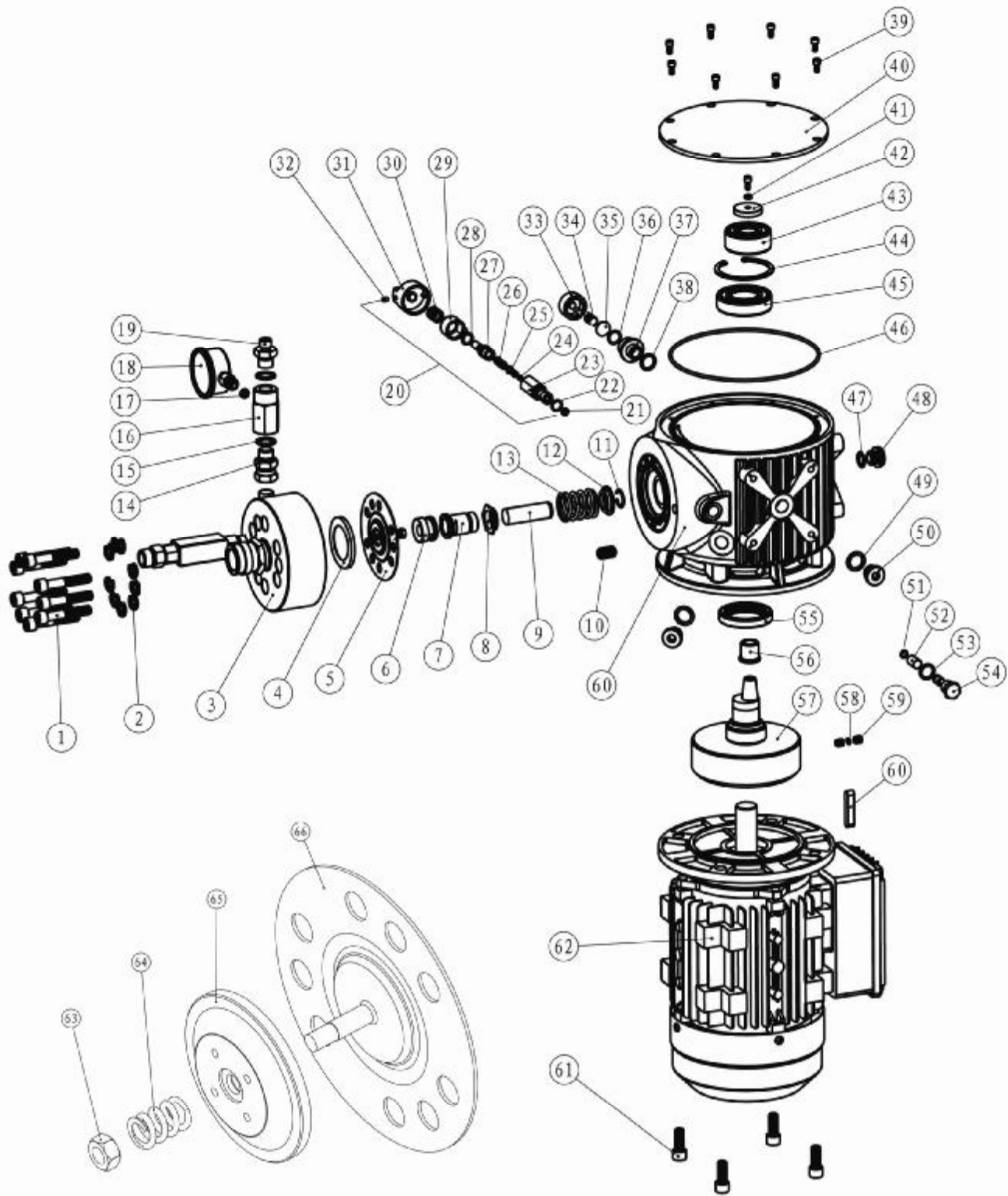


Figure 10: THE EXPLODED PARTS VIEW

NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	M8×45 BOLT	9	34	SPRING	1
2	RESILIENT PAD	9	35	VENT COVER	1
3	THE VALVE BLOCK ASSEMBLY	1	36	“O” RING	1
4	PLASTIC PACKER	1	37	VENT BODY	1
5	DIAPHRAGM ASSEMBLY	1	38	“O” RING	1
6	PISTON INSERT	1	39	M5×10 SCREW	9
7	CYLINDER LINER	1	40	COVER	1
8	CHECK NUT	1	41	RESILIENT PAD	1
9	PISTON	1	42	BEARING PAD	1
10	CORE PLUG	1	43	2304 BEARING	1
11	ELASTIC RING	1	44	JUMP RING	1
12	SPRING CAP	1	45	206 BEARING	1
13	SPRING	1	46	“O” RING	1
14	CONNECTOR	1	47	SEAL WASHER	1
15	COPPER RING	2	48	OIL INSPECTION WINDOW	1
16	TEEFITTING	1	49	COPPER WASHER	2
17	WASHER	1	50	PLUG	2
18	HIGH PRESSURE GAUGE	1	51	“O” RING	1
19	CONNECTOR	1	52	FILTER	1
20	PRESSURE VALVE	1	53	COPPER WASHER	1
21	BALL SEAT	1	54	FILTER FRAME	1
22	“O” RING	1	55	OIL SEAL	1
23	VALVE BODY	1	56	BEARING	1
24	Φ5 BALL	1	57	ECCENTRIC FLYWHEEL	1
25	BALL SOPPORT	1	58	SPRING WASHER	1
26	SPRING	1	59	HOLDING SCREW	2
27	SPOOL	1	60	FLAT KEY	1
28	“O” RING	1	61	M10×25 SCREW	4
29	LOCATING BLOCK	1	62	MOTOR	1
30	RETURN SPRING	1	63	NUT	1
31	KNOB	1	64	SPRING	1
32	TIGHTENING SCREW	1	65	DIAPHRAGM SEAT	1
33	VENT NUT	1	66	DIAPHRAGM	1

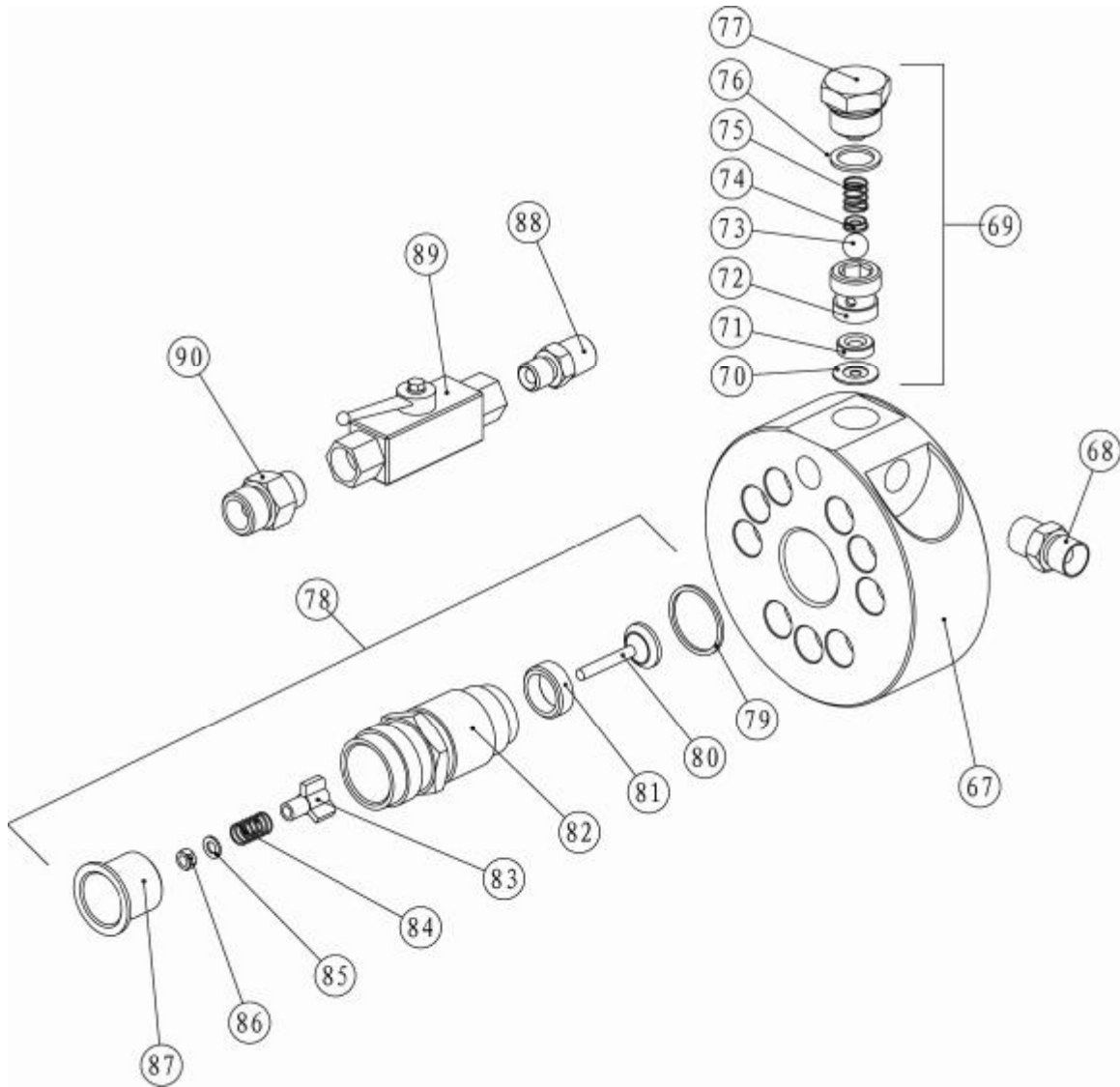


Figure 11: THE EXPLODED PARTS VIEW FOR THE VALVE BLOCK ASSEMBLY

NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
67	VALVE BLOCK	1	79	GAS-RING	1
68	CONNECTOR	1	80	SHUTTER	1
69	OUTLET VALVE	1	81	VALVE SEAT	1
70	WASHER	1	82	VALVE BODY	1
71	BALL SEAT	1	83	SHUTTER GUIDE	1
72	VALVE HOUSING	1	84	SPRING	1
73	BALL	1	85	WASHER	1
74	SPRING SEAT	1	86	NUT	1
75	SPRING	1	87	SEAL SLEEVE	1
76	COPPER WASHER	1	88	UNION CONNECTOR	1
77	CHECK NUT	1	89	SPRAY VALVE	1
78	INLET VALVE	1	90	UNION CONNECTOR	1

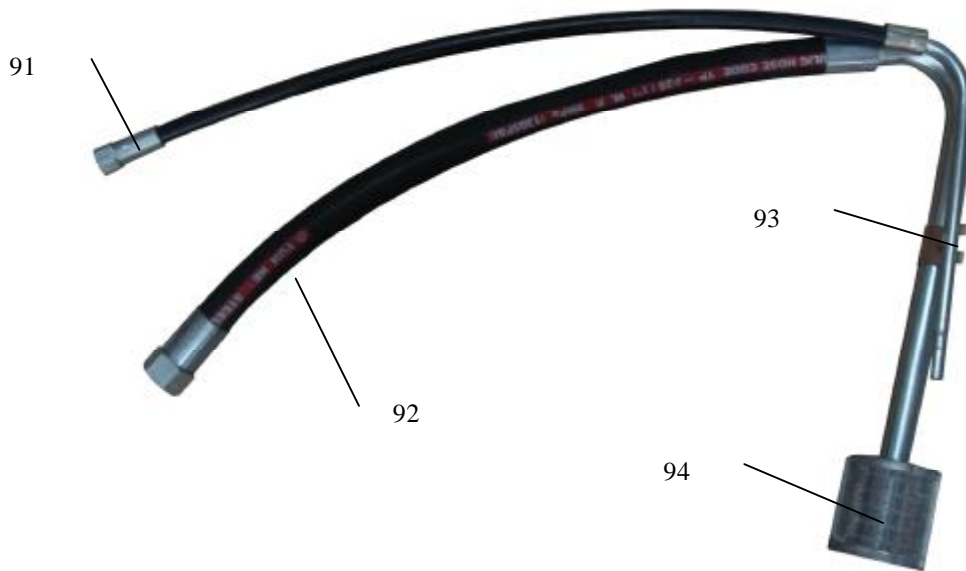


Figure 12: Suction hose and return hose assembly

NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
91	RETURN TUBE	1	93	HOOP	1
92	SUCTION HOSE	1	94	SUCTION FILTER	1

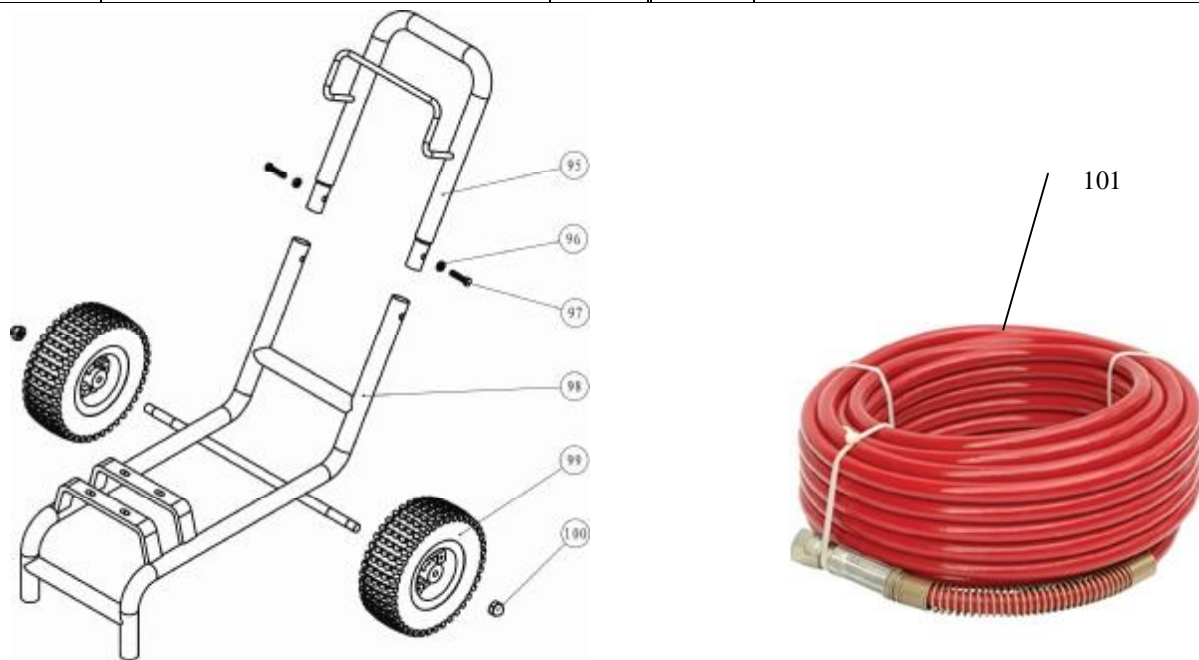


Figure 13: SPRAYER FRAME ASSEMBLY, HIGH PRESSURE HOSE

NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
95	HANDLE	1	99	WHEEL	2
96	NUT	2	100	NUT	2
97	BOLT	2	101	HIGH PRESSURE HOSE	1
98	FRAME	1			