



Service Manual 20 litre Pressure Tank



S20L

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage. Retain instructions for future reference.

Description:

The S20L pressure tank is designed as a pressure container to supply liquid material at a constant preset pressure up to a maximum of 90 PS, for light to medium duty use only.

Technical Data:

Working Pressure:	20 – 30 PSI
Maximum Pressure:	90 PSI
Safety Valve Pressure:	60 PSI
Paint Capacity:	20 litre
Agitation Method:	Manual

Pressure Relief Procedure:

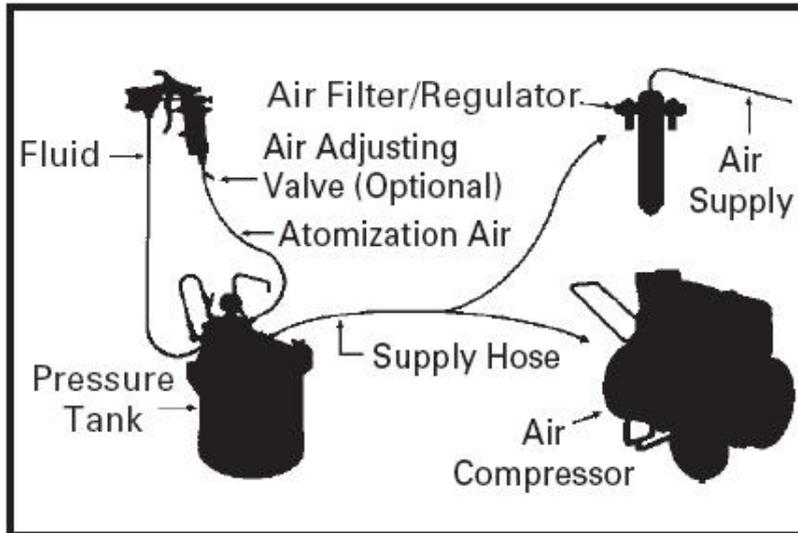
High pressure can cause a serious injury. Pressure is maintained after the system has been shut down. Before attempting removal of filling plug or cover, pressure must be relieved using the following steps:

1. Turn off main air supply to the tank.
2. Close air inlet valve located on tank air manifold.
3. Bleed off air in the tank by turning the air outlet valve knurled knob (item 34) counter clockwise. Wait until all the air has escaped through the valve before removing the pressure tank lid.

Installation:

Mix and prepare material to be used according to manufacturer's instructions. Strain material through a fine mesh screen (60 or 90 mesh) to remove all foreign matter, which is likely to enter and clog material passages.

1. Always relieve all air pressure in the tank, as per pressure relief procedure.
2. Loosen butterfly nuts, tip lid clamps back and remove lid assembly.
3. Pour material into the tank.
4. Replace the lid assembly and tighten clamps and butterfly nuts securely.
5. If possible, the air supply line should pass through an air filter/regulator to filter dirt from air and remove entrained water and oil. Connect the air supply hose to the air inlet fitting on tank regulator.
6. Connect the atomisation air hose, for the spray gun, to the air outlet fitting, which is directly opposite air inlet fitting.
7. Connect material hose to the fluid outlet fitting.
8. See diagram below for a typical hook up.



Operation:

1. Turn on the main air supply
2. Open air inlet ball valve at tee fitting above air regulator on tank.
3. Open ball valve at air regulator on tank. Turn adjusting knob clockwise to increase material pressure: turn counter clockwise to decrease pressure. Maximum tank pressure is 90 PSI.
4. Atomisation air for the spray gun can be adjusted at the gun by means of an air adjusting valve or, with an additional air regulator, which can be provided.
5. See spray gun instructions for operation of the gun.

Maintenance:

To Clean Equipment:

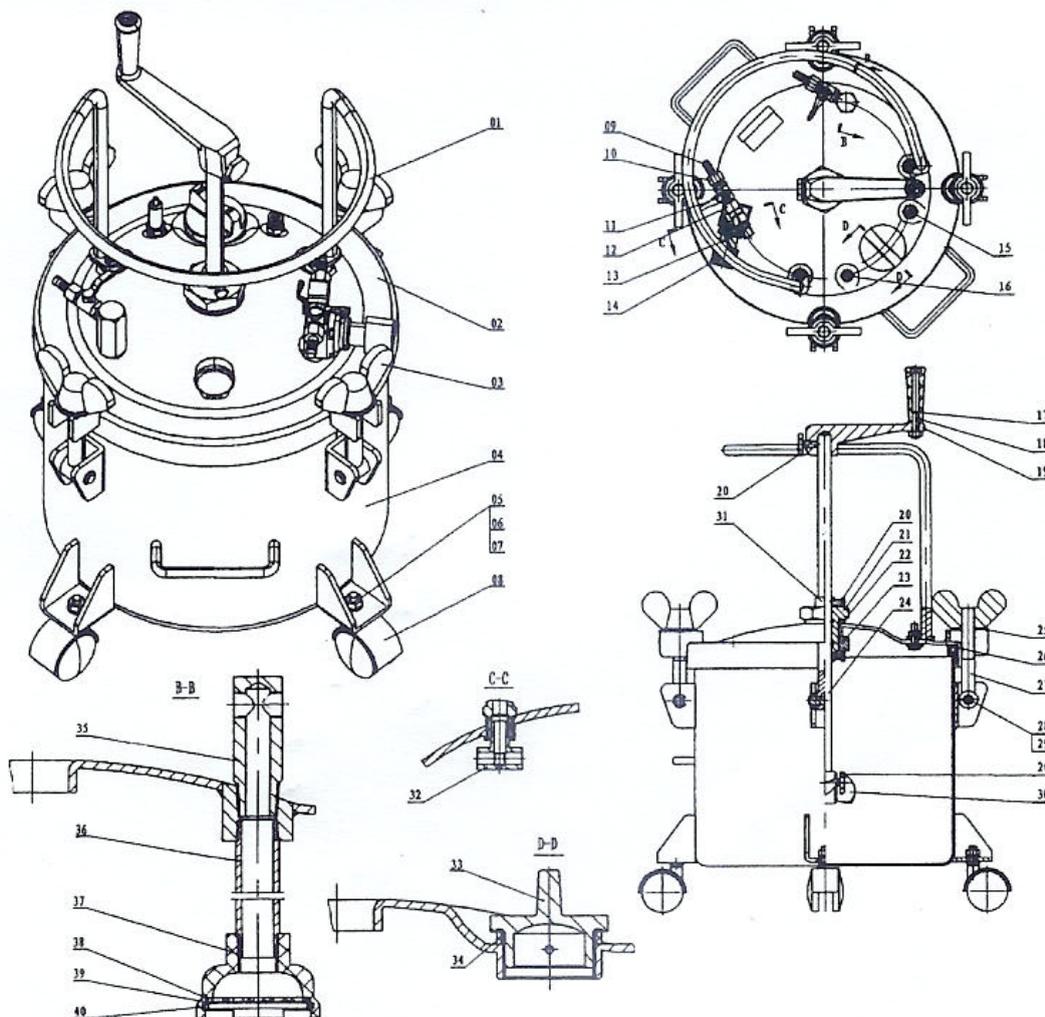
It is very important that the tank material hose and spray gun be cleaned as soon as the spray job is completed.

1. Turn off the main air supply to the tank.
2. Turn adjusting knob on tank regulator counter clockwise until no spring tension is felt.
3. Bleed off air in the tank by turning the air outlet valve knurled knob (item 34) counter clockwise. Wait until all the air has escaped through the valve before removing the pressure tank lid.
4. Loosen butterfly nuts, tip lid clamps back and tip lid assembly to one side.
5. Loosen spray gun air cap retaining ring about three turns.
6. Turn on the air supply to the spray gun
7. Place a cloth over the air cap on the gun and pull trigger. This will force material back through the hose and back into the tank.
8. Empty and clean tank and parts, which come in contact with material. Use a suitable cleaning material.
9. Pour cleaning material into tank.
10. Replace lid and tighten lid clamps and butterfly nuts.
11. Spray until clean solution appears.
12. Repeat steps 4 through 7.

Troubleshooting Chart

Symptom	Symptom cause	Corrective action
Air leak at tank lid	<ol style="list-style-type: none"> 1. Damaged gasket 2. Dirt in tank rim 3. Butterfly nut is not tightened 	<ol style="list-style-type: none"> 1. Replace the gasket 2. Clean tank lid and rim 3. Retighten butterfly nuts
No material from pressure tank	<ol style="list-style-type: none"> 1. Plugged hoses or material tube 2. Damaged regulator diaphragm 3. Incorrect hose connections 	<ol style="list-style-type: none"> 1. Check hoses and material tube 2. Check regulator for leaks. Replace diaphragm, if necessary 3. Check connections according to instructions

S20L Manual Agitator



S20L Spare Parts Listing

Part No.	Description	Qty	Part No.	Description	Qty
1	Handle Arm	1	21	Fixed Seat	1
2	Combi. Pot Cover	1	22	Sealing Washer	1
3	Butterfly Nut	4	23	Nut	1
4	Combi. Pot Body	1	24	Lever	1
5	Hexagon Nut	7	25	Washer	4
6	Spring Washer	4	26	Sealing Washer	1
7	Washer	4	27	Screw	4
8	Wheel	4	28	Snap Retainer	8
9	Air Connector	3	29	Step Pin	4
10	Nut	3	30	Agitator Paddle	1
11	Valve	4	31	Fixed Circle	2
12	Air Inlet Seal	1	32	Air Deflector	1
13	Connector	1	33	Locking Bolt	1
14	Air Regulator Assy.	1	34	Sealing Washer	1
15	Safety Valve Assembly	1	35	Fluid Outlet Body	1
16	Pressure Release Valve	1	36	Paint Supply Tube	1
17	Handle	1	37	Filter Body	1
18	Hexagon Nut	1	38	Filter Washer	1
19	Connection Seat	1	39	Filter Mesh	1
20	Hexagon Bolt	4	40	Filter Spring	1

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