SealBoss®

P3003-2C Injection Pump

Product Data Sheet

Two Component Injection Pump Manual

SealBoss® P3003-2C Injection Pump Manual

- Very affordable two component pump system
- Coverts to 1:1 and 2:1 ratios
- Can be used as 1 Component System
- Compact & Sturdy Design
- Heavy duty for daily use
- Lightweight
- > 5000 PSI
- Easy to use, clean & maintain
- Pressure gauges
- Hoppers included
- Hose Sets (mechanical packer version / static mixer version) sold separately

The ***SealBoss® P3003-2C Injection Pump*** features a compact and sturdy design with integrated hoppers and stand.

This lightweight and powerful injection pump can be used for dual component epoxy and/or polyurethane injection resin with viscosities between 10 and 1000 cps. Call your SealBoss® technician for details. Please specify 2:1 or 1:1 ratio. Conversion cylinders sold separately.

Suitable for mid-size jobs and daily use this is the perfect machine for epoxy and waterproofing contractors performing commercial work and residential injection. With this pump it is a snap to get in and out of basements and confined areas as found on many job sites.

This pump is of professional grade quality for every day use. The output and pressure are exceptional for a machine of this size. The modular design keeps maintenance cost low and allows for easy cleaning.

Parts can be replaced by the savvy contractor to keep downtime at an absolute minimum.

This pump is powered by an electric drill which is sold separately by SealBoss®. The drill offers a variable speed adjustment to adjust material volume and pressure.

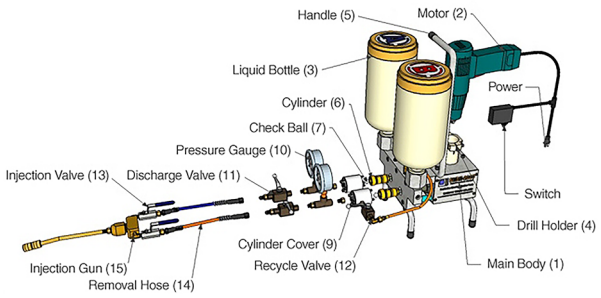
Contact your SealBoss® technician to confirm that your product can is suitable for use with this machine.

The pump can be used with our line of injection packers and ports.

Special SealBoss® applicators are available for polyurethane / mechanical packer and epoxy / two-component surface port injection can be ordered separately. Ask your SealBoss® technician for details.

North America: Standard variable speed electric drill 110V sold separately.

International Orders: Special order variable speed electric drill 220V (lead time and cost subject to availability at time of order) or voltage converter available on request. Please consult with your SealBoss® technician.



Set-up as shown for use with mechanical packers

Technical Data

Mix Ratio:	1:1
Max Pressure:	> 5000 psi
Flowrate:	30 ml to 1000 ml per min (1 quart/min)
Weight:	12 kg / 27 lbs

Electric Drill, adaptors/fittings and packers sold separately. Please ask your SealBoss® technician for suitable injection grouts. Viscosity range 10-1000 cps.

1:1 and 2:1 mix ratios with exchange of piston.

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Contents:
1. SealBoss® P3003-2C Injection Pump.
2. Electric Drill is sold separately, 110V or 220V (Special Order)
3. Wrench Set
5. Pressure Hose Set With Coupler

READ CAREFULLY BEFORE USING YOUR P3003-2C INJECTION PUMP

General Information:
Your pump has been tested during a trial run and pressure test to ensure highest quality control. You might find some residue of hydraulic oil in the system and some residue in the packaging. This is normal and does not impair operation.

Getting Started:
The pump is delivered ready for operation. The drill is sold separately and might not be part of the package if not specifically ordered. Proceed as follows: Screw the pressure hose into front of the pump and tighten firmly. Introduce the electronic drill to the drill holding device. Then tighten the clamping ring (Snug, but not excessively).

CAUTION!

PLEASE ENSURE THAT YOU PIERCE THE BLACK RUBBER GROMMETS AT THE TOPS OF THE PRESSURE GAUGES. THE GAUGES ARE FLUID FILLED SO TAKE CARE TO NOT TIP THE UNIT OVER FOR DOING SO WILL CAUSE SPILLAGE OF THE LIQUID IN THE GAUGES.

USE CLOCKWISE ROTATION SETTING ON DRILL ONLY! NEVER PUMP WATER! DO NOT RUN THE PUMP DRY! YOUR PUMP IS NOW READY FOR OPERATION! THIS PUMP MAY CREATE VERY HIGH INJECTION PRESSURES IN EXCESS OF 6000 PSI. EXTREMELY HIGH PRESSURES CAN CAUSE DAMAGE TO ATTACHED HOSES, VALVES ETC. AND CAN ALSO CAUSE DAMAGE IN THE STRUCTURE TO BE INJECTED. SUDDEN RUPTURES OR LEAKS IN THE DELIVERY SYSTEMS MAY BE HAZARDOUS TO YOUR HEALTH AND CAN CAUSE INJURY OR DEATH. MAKE SURE THAT THE PUMP AND ATTACHED HOSES AND FITTINGS ARE CONNECTED TIGHTLY AND ARE IN AS NEW CONDITION AT ANY GIVEN TIME DURING OPERATION. THE EQUIPMENT IS DESIGNED FOR PROFESSIONAL USE ONLY. PLEASE OBSERVE CAUTION AT ANY TIME WHEN OPERATING THIS MACHINE TO AVOID SERIOUS INJURIES.

Assembly:
1. Attach the drill making sure that it is operating in the clockwise direction. Tighten the screws on the side of the drill once the drill is confirmed to be fully engaged into the housing.
2. Screw in the hoppers to the pump. Make sure to insert the filter screen, and remove the spare parts.
3. Connect the appropriate hoses to the front of the pump. If you are using the pump for epoxy injection, you must switch the applicator to the black manifold and plastic static mixer. You will need to remove the male-male connector from the polyurethane applicator in order to connect the hoses to the epoxy applicator. Be sure that the smaller diameter hose is connected to the B-side.
4. Tighten all hose fittings with wrench.
5. Fill the A-side hopper with A-side material, and B-side hopper with B-side material.
6. Place the recirculation valve on the B-side in the closed position (perpendicular to line).
7. Open both hose valves to the open position (in line with the hose lines).
8. Plug in the drill to the shut-off switch include, and plug the shut off switch to your power source.
9. Run drill in clockwise direction. Pistons will begin to stroke.
10. You can lock the drill into 'on' position from the handle and control pressure with variable speed switch.
11. The shut-off switch will control the power to the drill. Hold the button down to provide power. You can now inject material and monitor the flow with the shut-off switch.

Operation:
Use the electric drill as supplied by us for best results. Do NOT use Drill in Hammer - Drill setting (if applicable). Use a very low speed to start the pumping process. If you are not experienced with this kind of injection pump, we suggest that you perform tests with hydraulic oil or resin without added hardener, to get used to handling of the machine. Once the desired working pressure is obtained, set the dial switch of the electronic drill so that this pressure will not be exceeded. In regular injection procedures your injection pressure should be well below the 400 bar mark. Please follow the instructions of the resin supplier carefully. Make sure that no foreign particles will enter the pump with the resin. This will help to prolong the service life of your pump.

Maintenance:
Immediately after use, clean the pump with ***SealBoss® R70 Pump Flush***. This product is not harmful to seals and hoses and may be left in the system as lubrication. Solvents should only be used briefly for the initial flush to cut thicker residue. Follow all safety guidelines. Do not leave solvent in the system as it is caustic towards seals and hoses. Fill up the resin tank (2), clean the inner walls, and pump cleaner out. Repeat this several times.

Safety Instruction:
• Protection while working
• Follow product data sheets and MSDS; wear protective goggles and protective gloves.

User Guide:
1. Operate the pump on a flat surface with the hoppers securely mounted on the pump assembly.
2. Fill A and B side hoppers with chemical resin. Be sure to use correct pistons for 2:1 and 1:1 materials.
3. Open the hose valves, and cls the recirculation valve to the B side hopper.
4. Confirm adequate flow from both A&B side valves followed by connection of hose set.
5. Connect the hose assembly to the packer or surface port for polyurethane and epoxy injections respectively.
6. Be sure to set variable speed switch on low setting for epoxy injection applications. The piston speed will decrease as the pressure is lowered.
7. Fully penetrate cracks until material is observed coming through the face of the crack with adequate travel.
8. When injection work is ceased for an extended period of time, activate the recirculation feature on the B side and purge applicator assembly until only A side material is flowing.
9. When completely finished injecting, purge both lines using SealBoss® R70 Pump Flush followed by a thin motor oil for lubrication purposes.

Features:
1. 1/2 weight compared to existing injection pumps.
2. Sophisticated exterior design (Anodized surface process).

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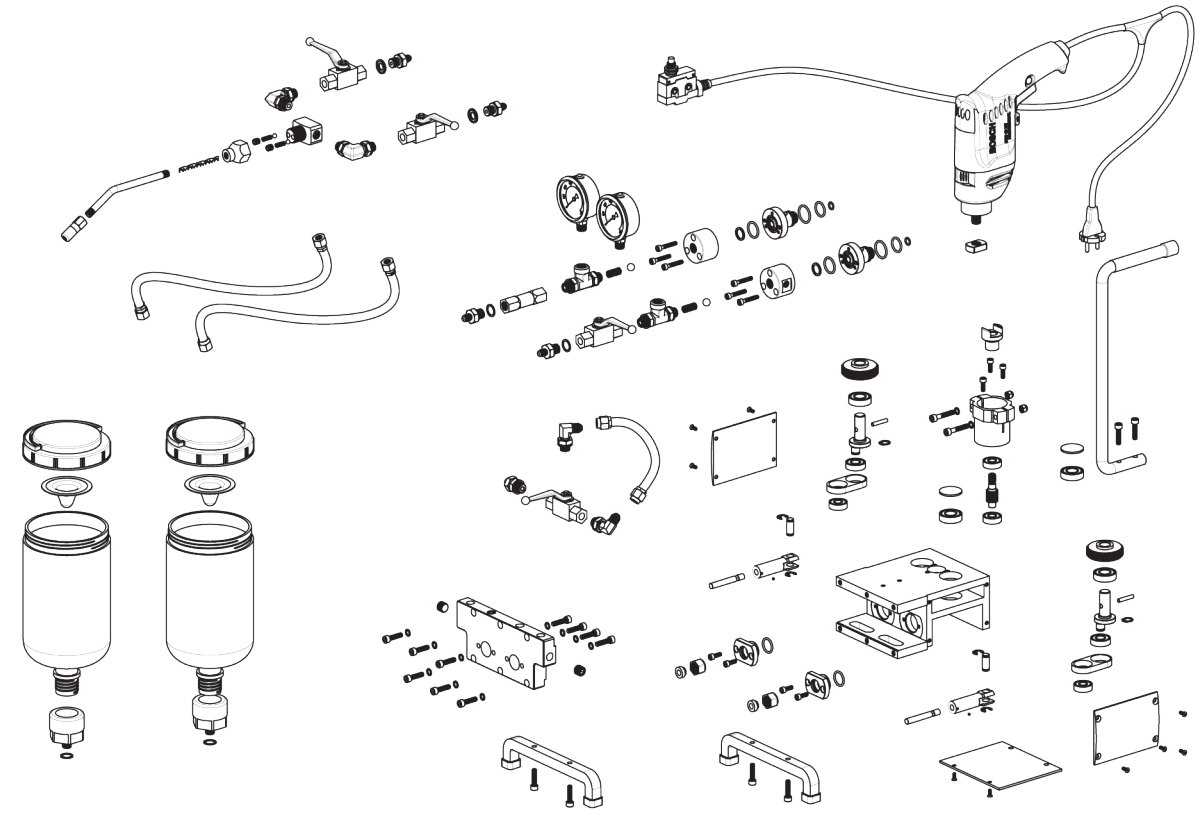
3. Generates less mechanical vibrations and noises (6) ball bearings minimizing mechanical vibrations and noises - 1 ball bearing fitting existing injection pumps.
4. The high pressure with the maximum of 5,000 psi from the electric drill (Single non-transmission type) enables the waterstop agent to reach and patch undetected cracks. (Excessive pumping may cause disruption of the high-pressure hose). The 2-liter injection bottle provides larger storage room. Easy removal of urethane water-stop agent being made of polypropylene The thick exterior wall of the tank prevents damages when removing foaming urethane.
5. You can shut the lid of the injection bottle during work to prevents residues on top of the bottle.
6. Key components of the equipment are precise products. (Excluding high-pressure hose, ball bearing, packing, piston rod).

Troubleshooting:

1. When the output pressure has remarkably dropped, it may have resulted from the inflow of chemical to the joint part of the spring and the ball. (Especially when cleaning has not been followed after injection)
2. Hold the pressure gauge and turn to the left direction to eject the ball and spring. Clean the ball and the spring sufficiently for the next use.



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