Professional Polymer Pumps Designed for Joint Fill & Industrial Injection Applications
The Industry Standard for Joint Filling and Floor Repair

Implementing Over 15 Years of Experience and Customer Feedback

- The New JointMaster Pro2 Gen3i is Designed for a Wide Variety of Joint Filler Products
- New Pump Units, 10 Times Improved Seal Pressure Resistance
- New Programmable Digital Motor Control with Display for Consistent Product Flow & Higher Output
- Safety - Low Voltage Signal Line to Applicator
- New CE Rated Motor with Much Lower Energy Consumption - Run Longer on Battery!
- Improved, Fully Enclosed Drive Design, 3 Shaft, Reduced Friction Energy Saving Design
- New Frame Design - Smaller Footprint, Quality Fit & Finish, Better Handling, Stronger Frame
- Very High Build Quality, Sharp and Professional on the Jobsite, Enhance Your Company’s Image
- Stainless Steel Tanks Standard, other Options Available
- Custom Equipped - Tank Size, Battery & Applicator Options
- International Versions, 110V, 220V, 50-60Hz

Welcome to the Digital Age in Floor Repair

- Professional Use
- Two-Component
- Joint Sealer
- Highway Joint / Crack Repair
- Polyurea
- Polyurethane
- Epoxy

Inside and Outside Applications

- Warehouses
- Parking Structures
- Highway Repair
- Driveways
- Control Joints

Custom Equipped to Your Order

- Tank Volume
- Tank Material
- Manifold Cleaning Options
- Heater Band Option
- Battery & Inverter Option
- Generator Option
- 110 Volt Standard
- 220 Volt International Markets

Specifications

- Weight: Basic Pump 205 lb dry. Extra equipment not included.
- Height: 44” (5 gal tanks), 47” (6 gal tanks)
- Width: 25”, Length: 29.5”
- Motor: 1/2 [hp], ~200 [lb-in], AC Gear
- Pumps: Internal rotary gear pumps
- Tanks: 5 gal/ 6 gal, 14 gauge 304 stainless steel
- Power: 110V 5A, 220V version available
- Hoses: 3/8” x 14.5’ braided, protective sleeve
- Wheels: 6”, swivel wheels with brakes
- Control: Extended lightweight handle, dual port manifold, digital speed control.
- Viscosity: approx. 50–4000 cps, depending on material, please call.
- Flow Rate: approx. 0.1 to over 1 gallon per minute
- Ratios: 1:1 by volume ratio standard, other ratios available

SealBoss® JointMaster Pro2 G3i Digital Machines are custom equipped. Models may vary.
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<td>• Light Weight, Modular Design&lt;br&gt;• Electric Drill Operated&lt;br&gt;• Single Piston System&lt;br&gt;• 6000+ psi - 1 Component</td>
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<td></td>
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</table>
SL1C Injection Pump

SealBoss

Signature Line

Applications

- Polyurethane Injection
- Pre-mixed Epoxy Injection
- Crack Injection
- Water Control Grouting
- Permeation Grouting
- Compaction Grouting

Sold Separately

- Injection Packers
- Injection Lances
- Pump Flush

Operation

- Electric
- Single Component Materials
- Stainless Steel Construction
- Recirculation Line for Pressure Relief
- High Quality Construction

Technical Data

- Membrane Pump SL1C has a delivery max of 0.5 GPM (1.9 lpm)
- Single component pump suitable for Epoxy and polyurethane grouts
- Stainless steel construction suitable for most chemical grouts
- Pressure gauge readings accurate from 0-3000 psi (200 bar)

Working Pressure: 0-3000 psi (200 bar)
Delivery: max 0.5 GPM / 1.9 lpm
Motor Voltage: 110V
Weight: 48 lb / 22 kg
Dimensions: 30" x 11" x 23"
SLP 1C - 1 Comp. Pneumatic Pump

Product Data Sheet
Polymer Pump System

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Range of Applicable Materials

- Polyurethane resin
- Polyurethane foam grout
- Aqueous solution

Advantages

- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic design

Air-Powered Systems for Crack Injection, Curtain Injection and Slab Lifting with SealBoss Polymer Products

The SealBoss® SLP 1C single component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps.

Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.
Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products

Specifications

Weight: 31lbs 14 kg
Dimensions: LxWxH 18"x20"x27 45x50x67cm
Working Pressure: 75-3300psi 7-220 bar, variable
Delivery Rate, max: 1.4 gal/min 5.1 l/min

Intake Air Pressure, max: 120psi 8 bar
Air consumption and delivery rate at 1500psi / 100 bar injection pressure
Air consumption Delivery rate
3 cfm, 90 l/min 0.15 gal/min 0.5 l/min
6 cfm, 183 l/min 0.25 gal/min 1 l/min
10 cfm 308 l/min 0.5 gal/min 2 l/min
15 cfm 433 l/min 1 gal/min 3.8 l/min

The SealBoss® SLP 1C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 1C Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 1C, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller’s and manufacturer’s sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.

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The SealBoss® SLP 2C two component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose-built heavy duty injection pumps.

This pump is set to a 1:1 mixing ratio by volume. Product is fed directly from the product containers via suction tubes. Pressure hoses and applicator are supplied with the machine.

Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.
SealBoss® SLP 2C - Two Component Pneumatic Pump

Air-Powered Systems for Crack Injection, Curtain Injection and Slab Lifting with SealBoss Polymer Products

Specifications

| Weight: | 45lbs 20 kg |
| Dimensions: | L x W x H 23" x 10" x 18" 58 x 24 x 46 cm |
| Working Pressure: | 150-1500 psi 10-100 bar, variable |
| Delivery Rate, max: | 2 gal/min 7.6 l/min |

Mix Ratio, by volume: 1:1

Intake Air Pressure, max: 120 psi 8 bar

Air consumption and delivery rate at 1500 psi / 100 bar injection pressure

| Air consumption Delivery rate | .15 gal/min 0.5 l/min |
| 2.6 cfm, 75 l/min | .25 gal/min 1 l/min |
| 4.5 cfm, 130 l/min | .5 gal/min 2 l/min |
| 10 cfm 280 l/min | 1 gal/min 3.8 l/min |
| 14 cfm 390 l/min | 2 gal/min 6.4 l/min |

The SealBoss® SLP 2C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 2C Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 2C, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instructions for each product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller’s and manufacturer’s sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.

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Revised 201901
SealBoss® SLP 2C-5G  High Output  Two Component Pneumatic Pump

Applications

- Slab lifting
- Crack injection
- Consolidation grouting
- Water control grouting
- Permeation grouting
- Compaction grouting

Operation

- Pneumatic
- 2 Component polyurethane grouts
- Convenient rolling cart
- High quality construction

Sold Separately

- Applicator handle
- Material hoses
- Injection packers
- Injection lances

High Output Air-Powered System for Curtain Injection, Consolidation Grouting/Soil Stabilization & Slab Lifting with SealBoss Polyurethane Products

The SealBoss® SLP 2C-5G is a heavy duty two component, pneumatic reciprocating piston injection machine in our signature line of professional and purpose built injection pumps.

This pump is set to a 1:1 mixing ratio by volume. Product is fed directly from the product containers via suction tubes.

The relatively low purchasing cost paired with the high output volume makes this pump suitable for mid size slab lifting jobs where lifting is performed with a cold foam such as SealBoss 1640.

Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.
**SealBoss® SLP 2C-5G High Output 2 Comp. Pneumatic Pump**

**High Output Air-Powered System**
for Curtain Injection, Consolidation Grouting/Soil Stabilization & Slab Lifting with SealBoss Polyurethane Products

**Specifications**

- **Working Pressure:** 225-3000 psi (5-200 bar)
- **Delivery:** max 5 GPM / 19 lpm
- **Air Consumption:** 2.5 m³/min
- **Transmission Ratio:** 1:25
- **Mixing Ratio:** 1:1
- **Weight:** 202 lbs / 92 kg
- **Dimensions:** 25.5" x 22" x 43"

The SealBoss® SLP 2C-5G is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 2C-5G Manual for more information. Due to the nature of dispensing systems like the SealBoss® SLP 2C-G, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller’s and manufacturer’s sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.

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SealBoss® SLP 3C - Two + One Component Pneumatic Gel Pump

Range of Applicable Materials

- Polycrylate gel
- Polyurethane resin
- Polyurethane foam grout
- Aqueous solution

Advantages

- Stainless steel (material contact)
- 2 Plus 1 component
- Water flush pump built-in
- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic design

Mix Ratio

- 1:1 by volume
- 1 Comp. water flush pump

Applicator

- Three component applicator made from highest quality, heavy duty components

Air-Powered System for Crack Injection, Curtain Injection and Soil Stabilization with SealBoss Acrylate Gel Products

The SealBoss® SLP 3C two plus one component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps. All internal pump parts in contact with product are made from stainless steel.

This pump offers a two component product setup and a built-in water pump to flush acrylate gel pump directly after use. The product pumps are set to a 1:1 mixing ratio by volume. Product is fed directly from the product containers via suction tubes. Pressure hoses and applicator are supplied with the machine. Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.
**SealBoss® SLP 3C - Two + One Component Pneumatic Gel Pump**

**Polymer Pump System**

**Product Data Sheet**

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**Air-Powered System for Crack Injection, Curtain Injection and Soil Stabilization with SealBoss Acrylate Gel Products**

**Specifications**

- **Weight:** 64 lbs, 29 kg
- **Dimensions:** LxWxH 31”x15”x32” 78x39x80 cm
- **Working Pressure:** 100-3200 psi, 7-220 bar, variable
- **Delivery Rate, max:** 2.1 gal/min, 8 l/min

- **Mix Ratio, by volume:** 1:1
- **Intake Air Pressure, max:** 120 psi, 8 bar

**Air consumption and delivery rate at 1500 psi / 100 bar injection pressure**

<table>
<thead>
<tr>
<th>Air consumption</th>
<th>Delivery rate</th>
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<tr>
<td>2.9 cfm</td>
<td>.15 gal/min</td>
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<tr>
<td>5.8 cfm</td>
<td>.25 gal/min</td>
</tr>
<tr>
<td>12 cfm</td>
<td>.5 gal/min</td>
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<tr>
<td>13 cfm</td>
<td>1 gal/min</td>
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The SealBoss® SealBoss® SLP3C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 3C Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 3C, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller’s and manufacturer’s sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.

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Revised 201901
SealBoss® IP2C Gel Injection Pump

SealBoss® IP2C Gel Injection Pump Features

- Stainless Steel Pumps & Applicator
- Sophisticated Design, Simple Operation
- Heavy Duty / High Reliability
- 3000 PSI
- 1:1 Mix Ratio
- High Metering Accuracy
- Separate Flush Pump
- Pressure Lines Included
- Easy To Use / Clean

The SealBoss® IP2C Gel Injection Pump sets new standards for performance, design and features. This complete package includes the stainless steel applicator with static mixer, a 15' triple set of high pressure hoses, triple set of suction hoses. The individual components are pumped separately and mixed in the mix head of the applicator while pumped through a plastic disposable element. Check valves prevent the components from cross contamination.

An integrated high-pressure flush pump is built in for cleaning the mixing chamber via a separate flush line any time work is interrupted. We supply buttonhead packers in several sizes and designs to work with this very strong and reliable injection pump. Super Flexible Acrylate Gels are the recommended product for use with this pump.

Cleaning Procedure For Use With Acrylate Gel. For short breaks during the injection process the mix head can be flushed with water or flushing agent with the separate flush pump (separate suction tube and flush pressure line). The applicator handle has to be placed in flush mode.

After completion of injection the hole pump system needs to be flushed. Place the suction hoses into the flushing agent tank and rinse all hoses thoroughly by operating the pump at lower pressure setting.

Included with Purchase:
High pressure double injection pump, high pressure flush pump, control fittings and gauge.
Three suction hoses 1.5m, 5ft.
Three high pressure hoses 5m, 15 ft.
One special mix / flush head with disposable mix elements, one flex hose with zerk or slide coupler.

Technical Data

- Standard Ratio: 1:1
- Material Flow Rate: Approx. 3.7 gal/min, 14 l/min at 1 psi
- Weight: 104 lb, 47 kg
- Dimension LxWxH: 55x50x100 cm
- Gear Ratio: 25:1
- Material Viscosity: 1 cps - 400 cps
- Max Pressure: 3000 psi, 200 bar
- Total Delivery per Stroke: approx 5 cubic inch, 80 cm³
- Air Requirements: 6-12 CFM at 90 psi, 200-400 l/min at 6 bar
- Max Air Intake: 73 db
- Pressure Ratio: 25:1
- Noise level at Idle: 75 db
- under Load: 73 db

COLOR CODED LINES:

COMPONENT A: BLUE
COMPONENT B: RED
WATER FLUSH LINE: YELLOW

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SealBoss® PA 3000 Epoxy Injection Pump

Advanced Design Features

- Complete Set Including Hoses And Applicator
- 800 PSI
- 2:1 or 1:1 Mix Ratios
- 3” Air Cylinder
- Positive Displacement Piston
- Pressure Lines Included
- Compact and Lightweight
- Rugged Construction
- Very Affordable
- Easy To Use / Clean
- Reliable, Proven Design

The SealBoss® PA 3000 Epoxy Injection Pump combines high quality with a very competitive price.

The PA 3000 Epoxy Injection Pump sets new standards for performance and features.

The machine is furnished with male hose adapters and push-in tube connectors for the pneumatic lines. Hoses are available in a variety of sizes. We also supply surface ports in several sizes and split sets for multi port injection. Please refer to our data sheet on the The SealBoss® Epoxy Injection Multiple Port System for further information.

The SealBoss® PA 3000 Epoxy Injection Pump is suitable for the two component SealBoss® Epoxy Injection Line products and Polyurethane Resins and related products with viscosities between 10 and 1000 cps. Contact your SealBoss® technician to confirm that your product is suitable for use with this machine.

The SealBoss® PA 3000 Epoxy Injection Machine has been refined and improved over many years for highest reliability and daily use. The pump features a three inch air cylinder for pressures up to 800 psi. The higher injection pressures allow for better performance with thicker resins and with all materials at lower temperatures.

The tanks are unitized and mounted on four easy roll caster wheels with breaks. The machine is very mobile. The pump is available in 2:1 or 1:1 mixing ratio versions. With purchase of a separate piston/cylinder unit mixing ratios can be easily interchanged.

This complete package includes material reservoirs, the applicator with static mixer and a 12’ set of high pressure hoses.

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SealBoss® P3003-2C Injection Pump Manual

- Very affordable two component pump system
- 2:1 ratio standard, 1:1 upon request
- 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.

Technical Data

Mix Ratio: 2:1 or 1:1 custom upon request
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.
SealBoss®

P3003-2C Injection Pump

Contents:
2. Electric Drill is sold separately, 110V or 220V (Special Order)
3. Other components vary depending on individual order

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 hopper 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).

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 close 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).
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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SealBoss® P2002 Injection Pump Manual

- Easy To Use
- Easy To Clean
- Easy To Maintain
- Modular, Compact & Sturdy Design
- Single Component
- Electric Drill Operated
- Heavy Duty For Daily Use
- Pressure Gauge, Hose Set, Hopper Included
- Recommended For Beginners & Injection Pros
- > 5000 PSI Injection Pressure Possible

The SealBoss® P2002 Injection Pump features a very compact design with integrated stand.

This extremely lightweight and powerful injection pump can be used for most of the SealBoss® polyurethane injection line products with viscosities between 10 and 1000 cps. Call your SealBoss® technician for details. Suitable for mid-size jobs and daily use this is the perfect machine for 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 a Metabo® electric drill which is sold separately by SealBoss®. The drill offers a variable speed adjustment to adjust material volume and pressure.


International Orders: Special order Metabo® 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.

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

Technical Data:
- Max pressure: > 5000 psi
- Flowrate: ~ 1 quart/min / 1l/min
- Weight: 8.5 lb
- Typical Product Viscosity: 50-800 cps

Recommended drill: Metabo®, call for specifications hose set included. Electric drill & packers sold separately.

Contents
2. Metabo® Electric Drill is sold separately, 110V or 220V (Special Order)
3. Wrench Set
5. Pressure Hose Set With Coupler

READ CAREFULLY BEFORE USING YOUR P2002 INJECTION MACHINE

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:
USE CLOCKWISE ROTATION SETTING ON DRILL ONLY! NEVER PUMP WATER! DO NOT RUN THE PUMP DRY! YOUR PUMP IS NOW READY FOR OPERATION! CAUTION! 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 A 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.

Safety Instruction:
- Protection while working
- Follow product data sheets and MSDS; wear protective goggles and protective gloves.
Operation:
Use the Metabo® 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.

1. Setup
The SealBoss® P2002 Injection Pump machine is straight forward to setup. The first thing to take note of is to make sure that the Metabo drill, that operates the SealBoss® P2002 Injection Pump, is turning in the clockwise direction only. Running the drill in reverse can, and will, strip gears in the gear box and render the pump non-functioning. Once the drill is ready, thread on the pump housing adapter onto the end of the drill. This will ensure a flush and secure fitting into the drill housing. Once this is confirmed to be secure, tighten the u-bolt nuts around the housing. Before mixing activated material, it is good practice to run a small bit of pump flush through the pump to make sure that the pump is developing pressure, there are no leaks, and the pump is holding pressure. A good way to do this is to make sure that the flush is flowing freely through the hose line and through the zerk coupler on the end of the hose set applicator. Once this is confirmed, shut the valve on the applicator to make sure that the pump develops pressure. Once the pump develops approximately 2000 psi, release the drill, and confirm that the pump is holding pressure for 1 minute. Once this is confirmed, open the valve, purge the line of flush, and you are ready to pump chemical injection grouts.

2. Maintenance / Cleaning Tips
DO NOT CLEAN OR TEST WITH WATER!

It is always recommended to purge the entire pump of catalyzed PU before any breaks of 30 minutes or longer. Take care to note the reaction time of the material being pumped for urgency of cleaning. You cannot leave mixed material in the pump for a longer duration than the pot life on the technical data sheet. When injection is completed, purge the hoppers and lines of all activated materials. Hydroactive polyurethanes will develop a small ‘skin’ of cured material on the top of the mixed batch. This can act as a barrier to the underlying mixed material from contaminants, but must be observed so as to not pump this skin through the piston. As the skin nears the filter, and while wearing safety goggles and gloves, remove the skin, discard, and refill the hopper with a fresh batch of catalyzed material. Once the pump is purged of material, the pump must be cleaned with a solvent/pump flush procedure to remove the curing polymer followed by lubricating the seals and piston. This is done by running solvent through the pump first, and once all visible remnants of polyurethane are discarded, closing the shut off valve, once again building pressure, and then relieving this pressure with a slow open/close movement of the shut-off valve. This produces a pressurized, fluid ‘rocking’ flow dynamic that aids in removing the activated polymer from the side walls of the hose sets. After solvent is purged and discarded per local and job site regulation, repeat this procedure with SealBoss R70 pump flush. The pump can then be stored with R70 for future use.

AGAIN, DO NOT CLEAN OR TEST WITH WATER!

3. Losing Pressure
Loss of pressure is most commonly due to the seal sets in the piston assembly. Often this can be diagnosed by observing material or flush around the piston as it moves back and forth. This condition should be identified with pump flush prior to mixing material and filling the hoppers with mixed material. If no material is observed around the pressure, there may be build up of cured material in the ball/spring assembly below the gauge. This can easily be accessed by removing the three allen screws on the front of the gauge seat, and exposing the ball/spring. (Take note of the ball/spring order position for re-assembly). In some cases, simply cleaning these parts allows the piston to operate with more efficiency and build better pressure. If the piston is operating well, and the ball/spring is cleaned, and the pump still does not develop pressure, the last place to look is at the shut-off valve. If the pump is producing a steady flow of material, and shutting the valve does not completely stop this flow and build pressure, replace the shut off valve and applicator. All piston kits, seal sets, balls, springs, hoses, and applicators are stocked by SealBoss® for immediate repairs.

4. Obstruction in Hose
In the event the pump is not cleaned thoroughly, and corners are cut at day’s end, a common consequence is cured material in the hose line. This is relatively easy to diagnose as material will not flow through the hose during pump tests. Upon disconnecting the hose set, material would then flow from the pump itself with as usual. In this case, replace the hose set.

5. Obstruction at Ball / Spring
If the hose is disconnected, and the pump does not dispense material, it is necessary to work backwards to diagnose the obstruction. The first place to look is the ball/spring assembly. As previously mentioned, this is easily done by removing the 3 allen screws on the front of the gauge seat and cleaning the ball and spring. If there is cured material in this assembly, this is a good sign that this is the obstruction. Reassemble the pump test again.

6. Obstruction in Piston Assembly
If, upon re-test, the pump still does not dispense material, the piston must be examined for cured material and sea set function. The most common repair for this pump is a piston kit replacement. If the seals are not operating correctly, the piston will simply move back and forth, with no pressure created to positively displace any material. There is a small seal set available as a spare part kit that could be tried first. If this does not produce pressure, the entire piston kit must be replaced. (Take note to count the threads visible at the back of the piston where it screws into the gear box.)
The replacement piston must be set to the same depth for optimal performance. Setting a replacement piston at the wrong depth can also cause lack of pressure generation. Be sure not to tighten the piston with anything that can score the piston shaft as this will cause loss of pressure. Once the piston depth is set, reassemble the front plate of the pump, install the ball/spring, and re-assemble the gauge seat. Perform testing procedure again.

7. Obstruction in Hopper
A very simple cause to some pump issues can also be a small bit of cured material in the bottom of the hopper or in the top of the pump that feeds the piston assembly. This is a simple diagnosis by simply removing the hopper, and observing any build up of cured material in the pump. If no material is observed, proceed with other tests referenced above.

8. Pumping Pressures
The SealBoss® P2002 Injection Pump generates up to 6,000 psi. Use extreme caution when pressures build at the packer. Pressures can cause packers to blow out of the drill hole. It is good practice to note ‘acceptance pressures’ at each section of the substrate so that each crew and quality control professional can pass this information along to other crews and clients. The acceptance pressure is the pressure required to see observable flow of grout in a specific substrate. If pressures spike to extreme values above this pressure, stop injection, and reassess the substrate to ensure that connectivity is being achieved between the drill hole and crack/joint. Many contractors have a separate pumping apparatus for water tests to ensure that the drill holes contact the crack and to introduce water into the substrate prior to injecting hydroactive grouts.

9. Suitable Materials
The SealBoss® P2002 Injection Pump is designed to inject single component hydrophilic and hydrophobic polyurethane grouts. Dual component epoxy resins have also been used with this machine if pot life allows for the application and cleaning procedures. SealBoss® does not recommend dual component material through the SealBoss® P2002 Injection Pump. The only 2-component system recommended is a catalyzed polyurethane in which water introduction is required for reaction initiation. The SealBoss® P2002 Injection Pump is a piston pump that creates a pulsing motion as the piston pumps. For pressurized systems, such as chemical injection, this is ideal. The pulsation created by the piston would not be suitable for gravity filling of joints. The SealBoss® P2002 Injection Pump applicator connects to a standard zerk fitting and can be fitted to couple to a button head fitting. Button head fittings and couplers sold separately.

10. Storage
Storage of the pump is to be in a climate-controlled warehouse. Best storage is with SealBoss® R70 Pump Flush, following adequate and thorough cleaning procedure referenced above, or with low viscosity motor oil. When pump is stored for long durations, it is always recommended to perform the maintenance and performance tests about a week prior to application to ensure optimal performance and to allow for the procurement of replacement parts as needed. Please keep in mind that, while SealBoss does stock many of the parts for the SealBoss® P2002 Injection Pump, some parts are special order and will have lead times. The SealBoss® P2002 Injection Pump is a versatile, high pressure, light weight, and compact chemical injection pump sure to provide efficiency for any injection contractor. The straightforward design provides minimal waste operation while providing the applicator with the ability to perform on-site maintenance procedures with ease.

P2002 Piston Replacement Procedure
1. Remove the 3 allen screws from the front of the gauge seat. Note the order of ball/spring when removing the gauge seat for reassembly. Ball faces piston.
2. Clean ball/spring chamber – confirm no PU build up.
3. Remove 4 allen screws on front plate of the pump (front plate also seats the hopper threading).
4. Note the length of screws removed from the face plate – 2 are long, and 2 are shorter.
5. Remove set screw from side of the front plate to release the piston (the entire front plate can now be pulled off).
6. Loosen the brass locking nut at the base of the piston shaft.
7. Unscrew piston from the pump. The entire piston assembly can now be removed.
8. Screw / attach the new piston kit (be sure to set piston depth at 1.5 threads showing. Accuracy of piston depth is very important!
9. Tighten brass locking nut once again.
10. Be sure to orient piston assembly to have material flow chamber facing the hopper and recessed hole for set screw facing the correct side.
11. Reassemble the front plate, allen screws, and ball/spring assembly.
12. Pressure test the pump with SealBoss® R70 Pump Flush prior to filling with PU.
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The SealBoss® IP495 Injection Pump is a lightweight and powerful injection pump, customized and modified by SealBoss® and can be used for most of the SealBoss® polyurethane and epoxy injection line products with viscosities between 10 and 800 cps. Call your SealBoss® technician for details.

This stand mounted piston pump system features suction tube material pick-up and will connect to the separately sold SealBoss® High Pressure Hose Set including shut-off valve and coupler for safe and easy connection to our packer system.

Equipped with pressure gauge and a large control button for injection pressure adjustments, the pump automatically shuts-off when the desired pressure is reached and restarts pumping when the pressure drops. This feature speeds up the injection process, keeps noise levels at a minimum and prolongs the life of the motor and mechanical parts.

Recommended use: Small to large injection jobs, frequent injection jobs.

Technical Data

System: Displacement Pump
Max Pressure: 3000 psi
Weight: 34 lb, 15.4 kg
Power: 0.75 HP DC Motor, 120 VAC, 60 HZ, 15A
Delivery: ~0.5 gpm, ~1.9 l/min
Max Hose Length: ~330 ft (100 m)
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The SealBoss® HP100 Pump is a powerful and versatile injection hand pump for the complete line of our injection grouts. Suitable for smaller jobs and as an inexpensive back-up system. Very reliable and easy to maintain.

Pump includes stand & pressure gauge. Pressure hose, shut-off valve and zerk coupler tip sold separately. Just place premixed resin next to pump or underneath and point suction tube into grout container. Piston can be pulled out for effective cleaning. Features a very compact design with integrated stand.

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

This injection pump can be used for most of the SealBoss® polyurethane and epoxy injection line products with viscosities between 10 and 1000 cps. Contact your SealBoss® technician to confirm that your product is suitable for use with this machine.

SealBoss® HP100 Hand Pump

- Every Day Use
- Lightweight
- Injection Pressure > 1500 PSI
- Easy to use, clean & maintain for long term use
- Single component
- Pressure gauge
- Mounted on stand, draws material from container or bucket
- Compatible with most SealBoss® injection grouts including epoxy resins, packers and couplers

**Technical Data**

- Max pressure: >1500 psi
- Weight: 25 lbs
- Single component: steel ball valve, one o-ring

**Parts List**

1. Pump Lever
2. Short Lever
3. Piston
4. Piston O-Ring
5. Housing
6. Gauge Connector
7. Spring (2)
8. Ball (2)
9. Vent Valve
10. In-Out Valve Housing
11. Valve / Suction Hose Connector
12. Gauge
13. Lever Bolt Short (2)
14. Lever Bolt Long

Hose set sold separately

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