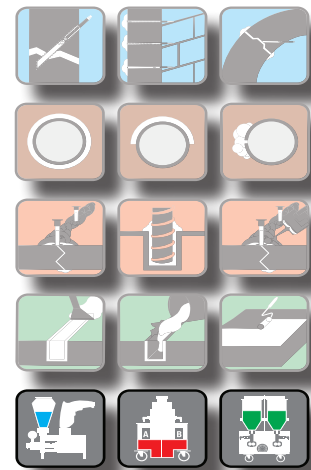
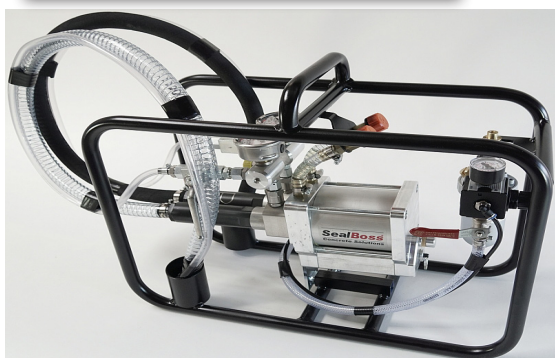
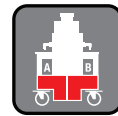


# Pumps



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



- Design G3i Industrial Grade Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Stronger & Smaller Footprint
- Pumps Advanced Gear Pump System, Improved Flow Rate & Seals
- Motor Industrial, CE Grade Engineered High Tech Motor
- Digital Programmable Logic Controller with Digital Display
- Applicator Low Amp/Volt Safety Control Line to Applicator with Control Dial












**SealBoss® JointMaster Pro2 G3i Digital Machines are custom equipped. Models may vary.**

### 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. Low voltage control line to applicator  
Programmable Digital 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



# Injection Pump Overview

Product Name	Application	Benefits	Image
SL 1C Signature Line	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> <li>• Top of the Line - Professional Use</li> <li>• Hopper Design (5 gal), Easy Cleaning</li> <li>• Electric Motor</li> <li>• Diaphragm System</li> <li>• 3000 psi - 1 Component</li> </ul>	
SLP 1C Signature Line	High & Low Pressure Polyurethane Injection Pneumatic	<ul style="list-style-type: none"> <li>• Top of the Line</li> <li>• Pneumatic</li> <li>• 3200 psi</li> <li>• 1 Component</li> </ul>	
SLP 2C Signature Line	High & Low Pressure Polyurethane Injection Pneumatic	<ul style="list-style-type: none"> <li>• Top of the Line</li> <li>• Pneumatic</li> <li>• 1500 psi</li> <li>• 2 Component</li> </ul>	
SLP 2C-5G Signature Line	High & Low Pressure Polyurethane Injection Slab Lifting GeoTech Soil Stabilization	<ul style="list-style-type: none"> <li>• Top of the Line - Professional Use</li> <li>• Economical Cold Foam Lifting, Injection</li> <li>• Electric Motor</li> <li>• Dual Piston System</li> <li>• 4000+ psi</li> <li>• 2 Component, Ratio: 1:1</li> </ul>	
SLP 3C Gel Pump	High & Low Pressure Acrylate (Acrylic) Gel Injection	<ul style="list-style-type: none"> <li>• Top of the Line - Stainless Steel</li> <li>• Pneumatic</li> <li>• 3200 psi</li> <li>• Superior 2 Component Gel Pump</li> <li>• Ratio: 1:1, 1 Comp. Flush Pump</li> </ul>	
IP2C Stainless Steel Gel Injection	High & Low Pressure Acrylate (Acrylic) Gel Injection	<ul style="list-style-type: none"> <li>• Top of the Line - Stainless Steel</li> <li>• Pneumatic</li> <li>• 2600 psi</li> <li>• Superior 2 Component Gel Pump</li> <li>• Ratio: 1:1</li> <li>• 1 Component Water Flush Pump</li> </ul>	
PA3000 The Epoxy Standard	High & Low Pressure Epoxy Injection & Polyurethane Resin Injection	<ul style="list-style-type: none"> <li>• Top of the Line - Professional Use</li> <li>• Pumps EP and PU resin</li> <li>• Pneumatic</li> <li>• 850 psi</li> <li>• 2 Comp., Ratio: 2:1 Stand., 1:1 Custom</li> </ul>	
P3003-2C PU & EP	High & Low Pressure Epoxy & Polyurethane Injection Piston System	<ul style="list-style-type: none"> <li>• Versatile, Pumps EP and PU Resin</li> <li>• Electric Drill Operated</li> <li>• Dual Piston System</li> <li>• 4000 psi</li> <li>• 2 Component,</li> <li>• Ratio: 2:1 standard, 1:1 custom</li> </ul>	
P2002 Injection Standard	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> <li>• Light Weight, Modular Design</li> <li>• Electric Drill Operated</li> <li>• Single Piston System</li> <li>• 6000+ psi - 1 Component</li> </ul>	
IP495	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> <li>• Larger Project, Extended Injection</li> <li>• Electric Motor</li> <li>• Piston System</li> <li>• 2500 psi - 1 Component</li> </ul>	
HP100	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> <li>• Hand Operated</li> <li>• Easy to operate</li> <li>• Single Piston System</li> <li>• 1800 psi - 1 Component</li> </ul>	

# SealBoss®

## SL1C Injection Pump



Product Data Sheet  
Single Component Membrane Pump

# SealBoss®

Signature Line

- Membrane Pump SL1C has a delivery max of .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)

### Applications

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

### Sold Separately

- Injection Packers
- Injection Lances
- Pump Flush

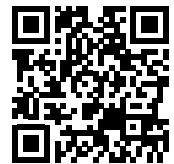
### Operation

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



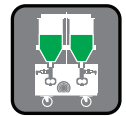
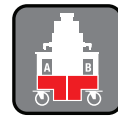
### Technical Data

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"



SealBoss® SL1C Injection Pump

Revised 201811



## SLP 1C - 1 Comp. Pneumatic Pump

Product Data Sheet  
Polymer Pump System



- Design Industrial Grade, Light-Weight Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Strong & Small Footprint
- Pump Advanced Pneumatic Piston Pump System
- Applicator Newly Designed Applicator with Control Grip

### 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 SlabLifting with SealBoss Polymer Products

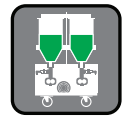
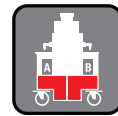
The SealBoss® SLP 1C single component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps.

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.





## SLP 1C - 1 Comp. Pneumatic Pump

Product Data Sheet  
Polymer Pump System

**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

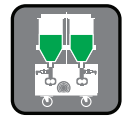
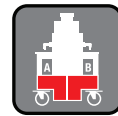
Air consumption	Delivery rate	
3 cfm, 90 l/min	.15 gal/min	0.5 l/min
6 cfm, 183 l/min	.25 gal/min	1 l/min
10 cfm 308 l/min	.5 gal/min	2 l/min
15 cfm 433 l/min	1 gal/min	3.8 l/min

The SealBoss® JSealBoss® 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 I, 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



## SLP 2C - 2 Comp. Pneumatic Pump

Product Data Sheet  
Polymer Pump System



- Design Industrial Grade, Light-Weight Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Strong & Small Footprint
- Pump Advanced Pneumatic Piston Pump System
- Applicator Newly Designed Applicator with Control Grip

### Range of Applicable Materials

- Polyurethane resin
- Polyurethane foam grout
- Epoxy resin
- Aqueous solution

### Advantages

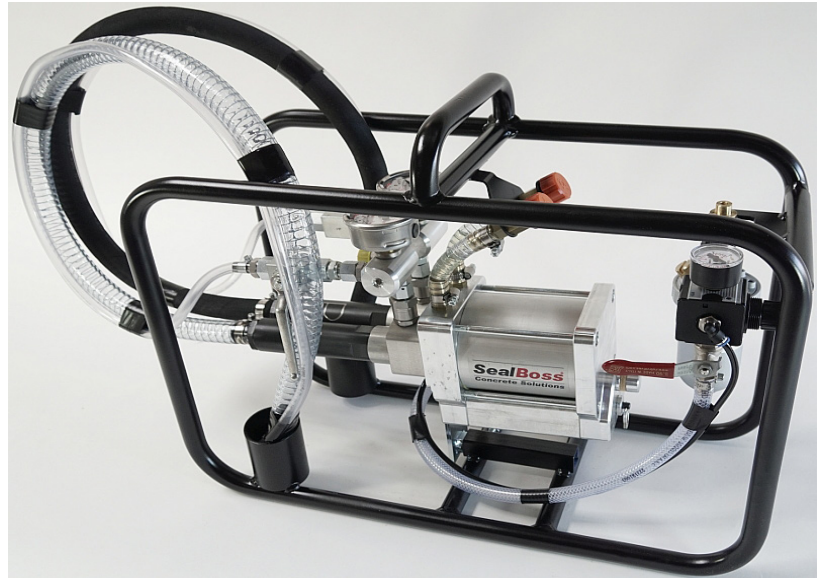
- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic design

### Mix Ratio

- 1:1 by volume

### Applicator

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



### Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products

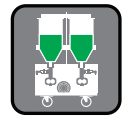
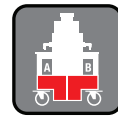
The SealBoss® SLP 2C two component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps.

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.



## SLP 2C - 2 Comp. Pneumatic Pump

Product Data Sheet  
Polymer Pump System

**Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products**

### Specifications

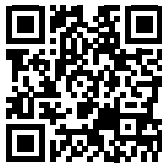
Weight: 45bs 20 kg  
Dimensions: LxWxH 23"x10"x18 58x24x46cm  
Working Pressure: 150-1500psi 10-100 bar , variable  
Delivery Rate, max: 2 gal/min 7.6 l/min

Mix Ratio, by volume: 1:1  
Intake Air Pressure, max: 120psi 8 bar  
Air consumption and delivery rate at 1500psi / 100 bar injection pressure

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



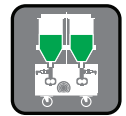
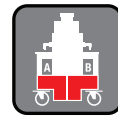
The SealBoss® JSealBoss® SLP 2C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine 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 I, 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





## SLP 2C-5G High Output 2 Comp. Pneumatic Pump

Product Data Sheet  
Polymer Pump System



- Reciprocating Pump SL2C achieves a delivery max of 5 GPM (19lpm)
- Mixing Ratio of 1:1 suitable for Polyurethane and Silicates
- Large valves and pistons allow for large variation of viscosity
- Pressure gauge readings accurate from 0-6000 psi (400 bar)

### 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.



## SLP 2C-5G High Output 2 Comp. Pneumatic Pump

Product Data Sheet  
Polymer Pump System

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

#### Specifications



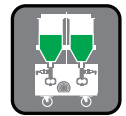
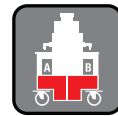
Working Pressure:	225-3000 psi (5-200 bar)
Delivery:	max 5 GPM / 19 lpm
Air Consumption:	2.5 m <sup>3</sup> /min
Transmission Ratio:	1:25
Mixing Ratio:	1:1
Weight:	202 lbs / 92 kg
Dimensions:	25.5" x 22" x 43"

The SealBoss® SealBoss® SLP -5G 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-5G Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 2C-5G, 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



## SLP 3C 2+1 Comp. Pneumatic Gel Pump

Product Data Sheet  
Polymer Pump System

### Range of Applicable Materials

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

### Advantages

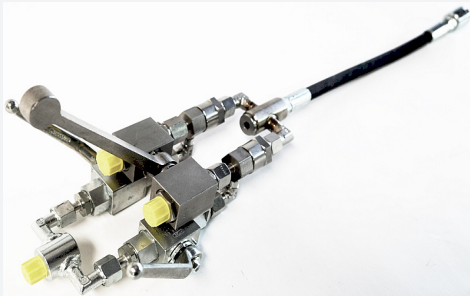
- Stainless steel (material contact)
- 2 Plus 1 component
- Water flush pump built-in
- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic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

### Mix Ratio

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

### Applicator

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



- Design Industrial Grade, Light-Weight Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Strong & Small Footprint
- Pump Advanced Pneumatic Piston Pump System
- Applicator Newly Designed Applicator with Control Grip



### 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.

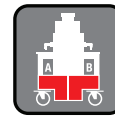
This pump offer a two component product setup and a built-in water pump to flush acrylate gel pump directly after use. The product pums are set to a 1:1

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



## SLP 3C 2+1 Comp. Pneumatic Gel Pump

Product Data Sheet  
Polymer Pump System

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

### Specifications



Weight: 64bs 29 kg  
Dimensions: LxWxH 31"x15"x32 78x39x80cm  
Working Pressure: 100-3200psi 7-220 bar , variable  
Delivery Rate, max: 2.1 gal/min 8 l/min

Mix Ratio, by volume: 1:1  
Intake Air Pressure, max: 120psi 8 bar  
Air consumption and delivery rate at 1500psi / 100 bar injection pressure

Air consumption		Delivery rate	
2.9 cfm	83 l/min	.15 gal/min	0.5 l/min
5.8 cfm	166 l/min	.25 gal/min	1 l/min
12 cfm	342 l/min	.5 gal/min	2 l/min
13 cfm	390 l/min	1 gal/min	3 l/min

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Revised 201901

# SealBoss®

## IP2C Gel Injection Pump



Product Data Sheet

Gel Injection Machine  
Two Component Stainless Steel

### 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.

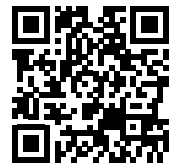


### Technical Data

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 cub inch, 80cm <sup>3</sup>
Air Requirements	6-12 CFM at 90 psi 200-400 l/min at 6 bar
Max Air Intake Pressure	120 psi / 8 bar
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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Revised 201705

## PA 3000 Epoxy Injection Pump



Product Data Sheet

Two Component  
Pneumatic Epoxy Injection Machine

### 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 SealBoss® 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.



### Metering Pump Specifications

Standard Ratios	1:1 or 2:1
Material Flow Rate	Approx. 0.4 GPM
Dimensions	14" x 22" x 29"
Weight	100 lb
Tank Capacities	3 1/3 gal ea
Material Viscosity	Pourable, 10-1000 cps
Outlet Pressure	15-800 psi
Air Requirements	1 CFM 40-120 psi

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Revised 201705

# 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
- 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.

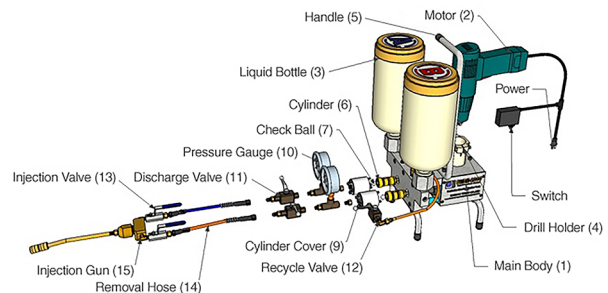
Contact your SealBoss® technician to confirm that your product can be suitable for use with this machine.

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:	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

# SealBoss®

## P3003-2C Injection Pump



Product Data Sheet

Two Component Injection Pump Manual

### Contents:

1. SealBoss® P3003-2C Injection Pump.
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 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).
3. Generates less mechanical vibrations and noises (6) ball

SealBoss® P3003-2C Injection Pump





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.

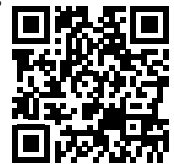
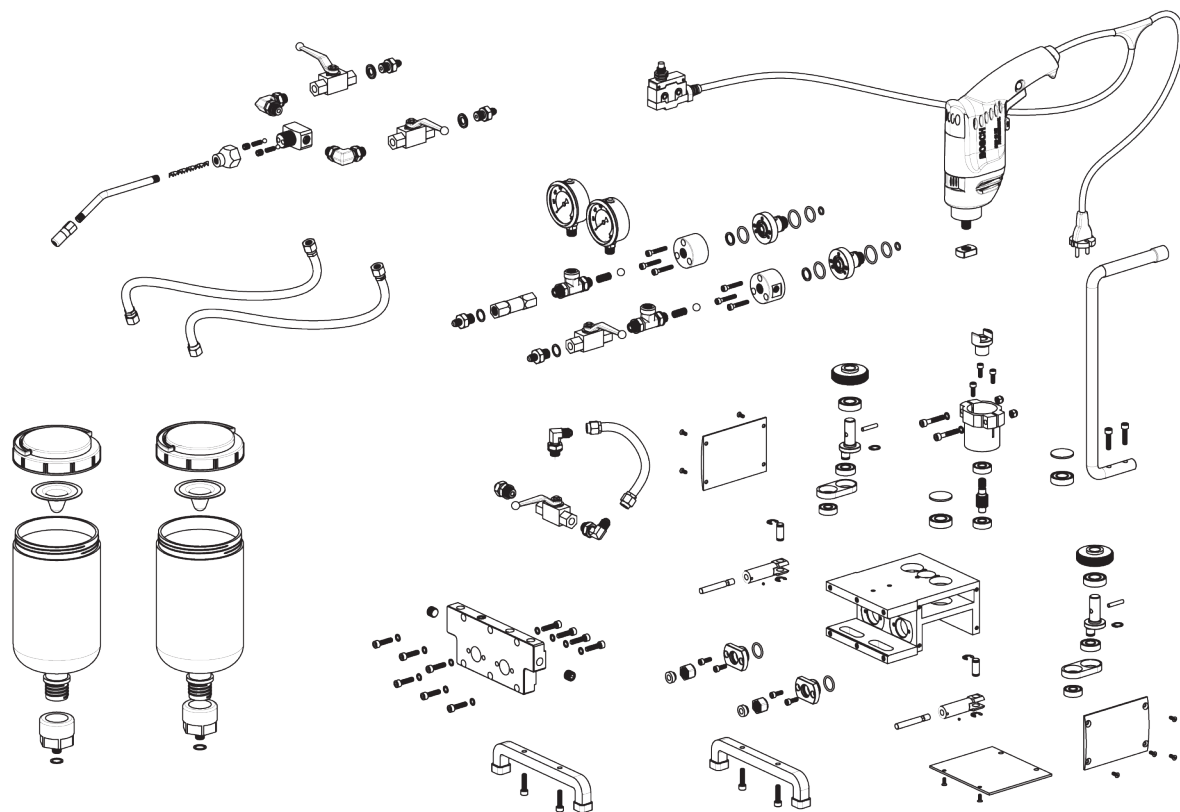
5. You can shut the lid of the injection bottle during work to prevent residues on top of the bottle.

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



Product Data Sheet

Electric High Pressure Injection Pump

### 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.

North America: Standard Metabo® drill 110V sold separately.

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

1. SealBoss® P2002 Injection Pump.
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:

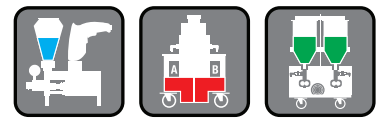
**USE CLOCKWISE ROTATION SETTING ON DRILL ONLY! NEVER PUMP WATER! DO NOT RUN THE PUMP DRY! YOUR PUMP IS NOW READY FOR OPERATION! CAUTION! THIS PUMP MAY CREATE VERY HIGH INJECTION PRESSURES IN EXCESS OF 6000 PSI. EXTREMELY HIGH PRESSURES CAN CAUSE DAMAGE TO ATTACHED HOSES, VALVES ETC. AND CAN ALSO CAUSE 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.

# SealBoss®

## P2002 Injection Pump



Product Data Sheet

Electric High Pressure Injection Pump

### 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 drill operated injection 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 gloves and goggles, 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

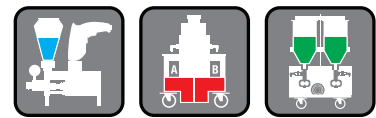
In the event the pump is not cleaned thoroughly, and corners are cut at day's end, a common consequence is cured material in the hose line. This is relatively easy to diagnose as material will not flow through the hose during pump tests. Upon disconnecting the hose set, material would then flow from 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 straight forward design provides minimal waste operation while providing the applicator with the ability to perform on-site maintenance

procedures with ease.

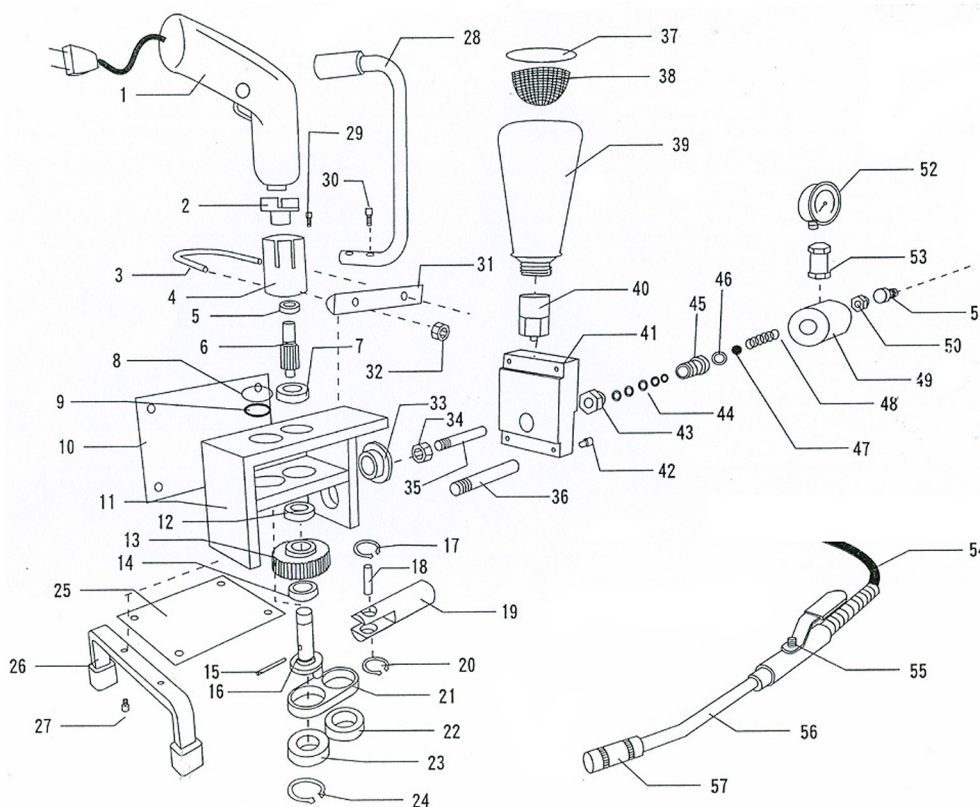
### P2002 Piston Replacement Procedure

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.



### Parts List

1 IMPACT DRILL	16 ECCENTRIC SHAFT	33 BUSH	50 NUT
2 PITMAN SHAFT	17 "C"TYPE SNAP RING	34 SHANK NUT	51 COMPRESS SCREW
3 "U" CLAMP	18 JUNCTION PANEL SHAFT	35 PISTON SHANK	52 PRESSURE GAUGE
4 SLEEVES	19 GUIDE BAR	36 PRESSURE SLEEN NUT	53 DIAPHRAGM PRESSURE GAUGE SEAT
5 #6000 BEARING	20. "C" TYPE SNAP RING	37 METAL LID	54 HIGH PRESSURE HOSE
6 PINION	21 JUNCTION PANEL	38 FILTER BOWL	55 AIR VALVE
7 BEARING	22 #608 BEARING	39 PLASTIC CONTAINER	56 BEND SPOUT
8 HUBCAP	23 #6000 BEARING	40 ADAPTER	57 COUPLER
9 "C' TYPE SNAP	24 "C" TYPE SNAP RING	41 BUSH BLOCK	
10 LATERAL HOUSING	25 LOWER HOUSING	42 SOCKET SCREW M5 x 25 MM	
11 BODY	26 LEGS	43 CLAMPING BAR	
12 BEARING	27 SOCKET SCREW M5 x 25MM	44 O. RING	
13 GEARS	28 HANDLE BAR	45 PRESSURE FEED BODY	
14 BEARING	29 SOCKET SCREW M5x 12MM	46 BRASS PACKING	
15 PIN	30 SOCKET SCREW M5 x 25MM	47 STEEL BALL	
	31 CLAMPING BAR	48 SPRING	
	32 5/16" UNC NUT	49 PRESSURE SLEEVES	



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Revised 201705

# SealBoss®

## IP495 Injection Pump



Product Data Sheet  
Injection System  
Professional Grade Electric Piston Pump

### SealBoss® IP495 Injection Pump

- Pressure Controlled
- Pressure Preadjust Knob
- Automatic Shut-Off
- Single Component
- 3000 PSI, 210 BAR
- Piston System
- Suction Tube
- Mounted on Stand
- Reliable, Easy to Use, Easy to Clean
- Connects to a Wide Range of Packers
- Works with Many Materials

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)



Hose extension with valve and packers sold separately

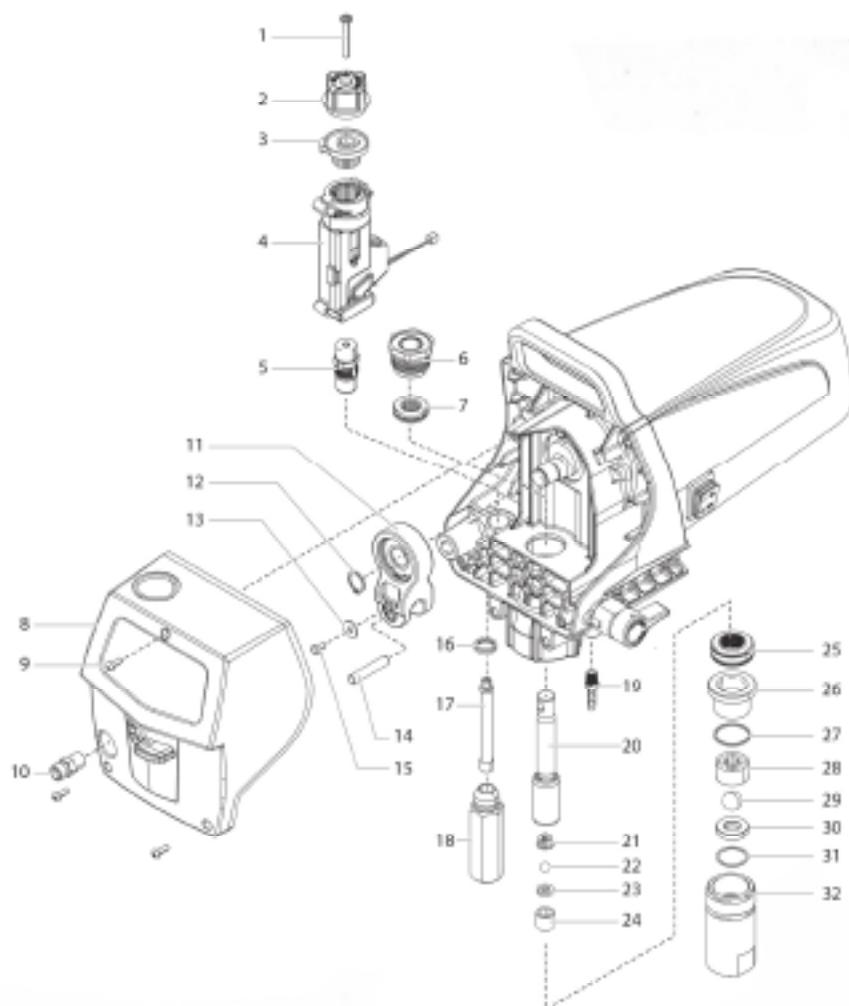


Ask for our "Starter Kit" Option



### Parts List

1. Screw
2. Pressure Control Knob
3. Pressure Control Knob Bottom
4. Pressure Switch
5. Transducer Assembly
6. Upper Bushing
7. Upper Packing
8. Front Cover
9. Screw (3)
10. Outlet Fitting
11. Yoke Assembly
12. Retainer Ring
13. Washer
14. Dowel Pin
15. Screw
16. Seal
17. Filter Assembly
18. Filter Housing
19. Return Tube Fitting
20. Piston Assembly (Items 20-24)
21. Upper Cage
22. Outlet Valve Ball
23. Outlet Valve Seat
24. Outlet Valve Retainer
25. Lower Packing
26. Bushing
27. Inlet Valve Cage
28. Inlet Valve Seal
29. Inlet Valve Ball
30. Inlet Valve Seat
31. O-Ring, PTFE
32. Inlet Valve Housing



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Revised 201706

# SealBoss®

## HP100 Hand Pump



### Product Data Sheet

### Reliable, Professional Grade Injection Hand Pump

#### 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



Hose set sold separately

#### Technical Data

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

**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.

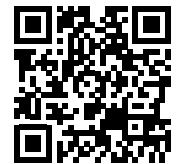
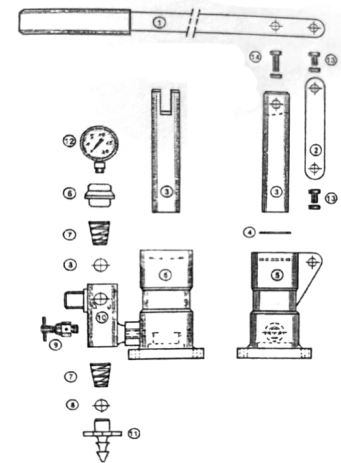
Pump includes stand & pressure gauge. Pressure hose, shut-off valve and zerk coupler tip sold separately. Just place premixed resin next to pump or underneath and point suction tube into grout container. Piston can be pulled out for effective cleaning. Features a very compact design with integrated stand.

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.

#### 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



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