



adhesivetech

17 Corban Avenue, Henderson, Waitakere 0612
P.O. Box 21169, Henderson, Waitakere 0650, Auckland, New Zealand
Phone: +64 9 838 6961 Website: adhesivetech.co.nz

**WEST
SYSTEM**
Safe, Strong, Reliable

VERSION: 1.0

DATE ISSUED: 17/11/2023

WEST SYSTEM DISPENSING PUMP

Introduction

A robust single action double cylinder pump designed to be used with larger volumes of WEST SYSTEM resin and hardener. i.e. 20L and 200L packs. This pump is calibrated to a 5:1 mix ratio.

Pump Setup

Installation

1. Secure the pump to a steady structure such as a bench or wall. Regarding pump location; please ensure the outlets of the resin/hardener containers are levels or raised above the inlets of the dispensing pump.
2. Fit the 20mm (3/4") hose tail to the resin container.
3. Fit the 20x15mm reducing bush to the 15mm (1/2") hose tail. Then attach to hardener outlet.

PRIMING

Step one (Hardener – Perform before moving to step two)

Step Two (Resin)

1. Attach hardener hose to pump and container	1. Attach resin hose to pump and container.
2. Raise hardener container allowing the liquid to fill hose completely, expelling any air bubbles	2. Raise resin container allowing the liquid to fill hose completely, expelling any air bubbles
3. Place a container under hardener outlet to collect dispensed hardener.	3. Place two containers, one under each nozzle to collect dispensed liquid
4. Pour collected hardener back into respective containers.	5. Pour collected resin back into respective containers.

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Operation

In a smooth and fluid motion, pump the handle. You can feel the pump hit the stop upon a full stroke or alternatively partial pump can be performed.

Note: When resin/hardener is cooler/thicker it is advised to slow the pumping action. This allows time for the liquid to fill cylinders. Otherwise incomplete filling of cylinders can occur, resulting in off-spec resin : hardener ratios.



Note: This image is only a representation of how the West System 20L Jerry can connect to the West System pump. Pump should be firmly secured to bench with containers level or raised above the pump body.

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ASSEMBLY INSTRUCTIONS & PARTS LIST

Piston and Seals

Take resin and hardener seals and o-rings and very lightly grease o-rings. Place o-rings and seals in piston bore recesses. Insert hardener and resin pistons into bores. Place seal plate over pistons and seals and screw in the six pan head screws to fasten.

Handle and chain links

Attach pump handle with handle pivot bolt to finger tight, place handle pivot nut on bolt and tighten with spanner. Position handle and pistons and connect with chain links.

Resin inlet valve

Take resin inlet valve seal and very lightly grease, attach to resin inlet valve body. Take resin inlet ball and with resin inlet body resting treads up on anvil of vice, place ball in. Place one resin inlet spring large coil first into resin hole on back of pump body. Remove resin inlet ball from inlet body and place on small end of resin spring. Screw resin body on over ball and spring until tight.

Hardener Inlet valve

Take hardener inlet valve seal and very lightly grease, attach to hardener inlet valve body. Take hardener inlet ball and with hardener inlet body resting treads up on anvil of vice, place ball. Place one hardener inlet spring large coil first into hardener inlet hole on back of pump body. Remove hardener inlet ball from inlet body and place on small end of hardener spring. Screw hardener body on over ball and spring until tight.

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Resin outlet valve

Place resin outlet valve body on anvil and place a resin outlet ball into body, "seat" ball by placing ball punch on ball and hitting firmly three times with hammer. Put resin outlet valve spring into body on top of ball, put resin outlet top washer onto resin outlet valve insert and screw together with body until finger tight. Put resin outlet bottom washer on valve and screw assembly into top of pump body and tighten firmly with a spanner on resin outlet valve.

Hardener outlet valve

Place hardener outlet valve body on anvil and place a hardener outlet ball into body. Put hardener outlet valve spring into body on top of ball, put hardener outlet top washer onto hardener outlet valve insert and screw together with body until finger tight. Put hardener outlet bottom washer on valve body and screw assembly into top of pump body and tighten firmly with a spanner on resin outlet valve.

Resin outlet tube

Take resin outlet tube, and on to the straight portion; slide a resin outlet tube inverted flare nut followed by a resin outlet compression sleeve. Screw flare nut into resin outlet valve making sure the outlet tube sits into the small recess in the outlet valve top. Tighten firmly with the outlet tube finish position facing the opposite way to the resin inlet side.

Hardener outlet tube

Take hardener outlet tube, and on to the straight portion; slide a hardener outlet tube inverted flare nut followed by a hardener outlet compression sleeve. Screw flare nut into hardener outlet valve making sure the outlet tube sits into the small recess in the outlet valve top. Tighten firmly with the outlet tube finish position facing the opposite way to the hardener inlet side.

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Testing Pump

Place thumb over inlet holes individually to feel suction when pumping down. Place thumb over outlet holes individually to feel pressure when pumping up.

Care & Maintenance

WEST SYSTEM DISPENSING PUMP is relatively maintenance free, if good cleanliness and operating procedures are followed.

- Lids need to be left loosely on containers, to limit dust/debris enter pump. Still allowing air to enter as the pump removes liquid.
- Wipe the exterior of pump body weekly, or whenever it is deemed necessary.
- Pump nozzle outlets should be wiped daily; outlets have been known to occasionally drip.
- Avoid any contact to the pistons with mixing stick and spatulas. As scratched pistons affects performance.

Common parts for replacement:

- Nylon sealing bush located at the base of piston.

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All parts and over-haul kits are available upon request. Please contact Adhesive Technologies for further information.

Over-haul

Kit

RESIN SIDE

HARDENER SIDE

CODE	DESCRIPTION	CODE	DESCRIPTION
ROV7	RESIN OUTLET VALVE TOP WASHER	HOV7	HARDENER OUTLET VALVE TOP WASHER
ROV5	RESIN OUTLET VALVE SPRING	HOV5	HARDENER OUTLET VALVE SPRING
ROV6	RESIN OUTLET VALVE BALL $\frac{1}{2}$ "	HOV6	HARDENER OUTLET VALVE BALL $\frac{3}{8}$ "
ROV9	RESIN OUTLET VALVE BOTTOM WASHER	HOV9	HARDENER OUTLET VALVE BOTTOM WASHER
RIV1	RESIN INLET VALVE SEAL	HIV2	HARDENER INLET VALVE SPRING
RIV3	RESIN INLET VALVE BALL $\frac{5}{8}$ "	HIV3	HARDENER INLET VALVE BALL $\frac{9}{16}$ "
RIV2	RESIN INLET VALVE SPRING	HIV1	HARDENER INLET VALVE SEAL
RS1	RESIN SEAL ORING	HS1	HARDENER SEAL ORING
RS2	RESIN CAPSEAL 5:1	HS2	HARDENER CAPSEAL

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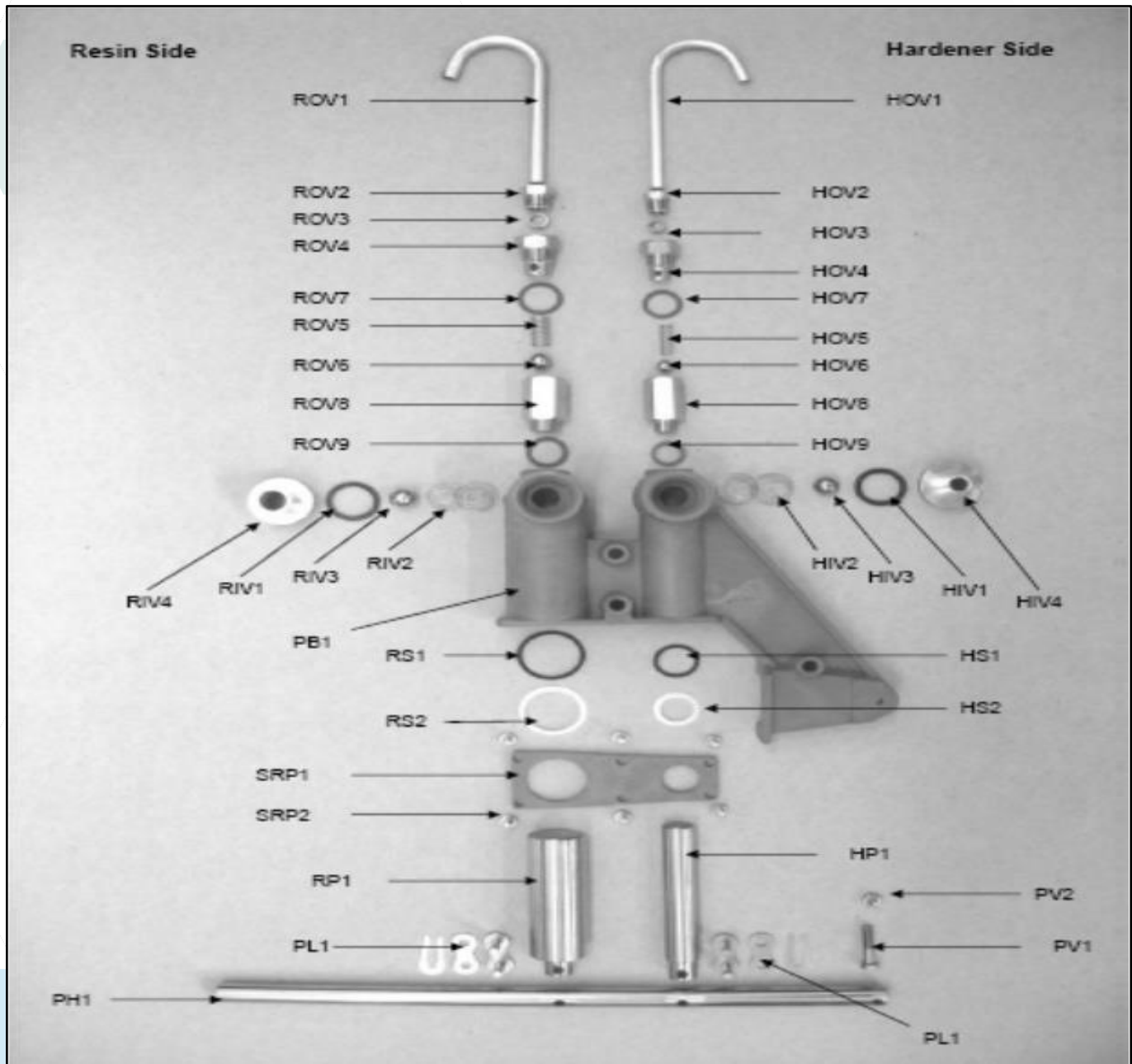
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Pump

Schematic

CODE	DESCRIPTION	CODE	DESCRIPTION
HOV1	HARDENER OUTLET TUBE	HIV3	HARDENER INLET VALVE BALL
HOV2	HARDENER OUTLET TUBE $\frac{5}{16}$ INVERTED FLARE NUT	HIV4	HARDENER INLET VALVE BODY
HOV3	HARDENER OUTLET TUBE $\frac{5}{16}$ COMPRESSION SLEEVE	RIV1	RESIN INLET VALVE SEAL
HOV4	HARDENER OUTLET VALVE HARDENER INSERT	RIV2	RESIN INLET VALVE SPRING
HOV5	HARDENER OUTLET VALVE HARDENER SPRING	RIV3	RESIN INLET VALVE BALL
HOV6	HARDENER OUTLET VALVE HARDENER BALL	RIV4	RESIN INLET VALVE BODY
HOV7	HARDENER OUTLET VALVE TOP WASHER	SRP1	PLATE FOR CASE
HOV8	HARDENER OUTLET VALVE BODY	SRP2	PLATE TO CASE SCREWS
HOV9	HARDENER OUTLET VALVE BOTTOM WASHER	PB1	MAIN CASTINGS PLASTIC INJECTION
ROV1	RESIN OUTLET TUBE	PV1	HANDLE PIVOT BOLT
ROV2	RESIN OUTLET TUBE $\frac{3}{8}$ INVERTED FLARE NUT	PV2	HANDLE PIVOT NUT
ROV3	RESIN OUTLET TUBE $\frac{3}{8}$ COMPRESSION SLEEVE	HS1	HARDENER SEAL ORING
ROV4	RESIN OUTLET VALVE INSERT	HS2	HARDENER CAPSEAL

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ROV5	RESIN OUTLET VALVE SPRING	RS1	RESIN SEAL ORING
ROV6	RESIN OUTLET VALVE BALL	RS2	RESIN CAPSEAL 5:1
ROV7	RESIN OUTLET VALVE TOP WASHER	HP1	HARDENER PISTON
ROV8	RESIN OUTLET VALVE BODY	RP1	RESIN PISTON
ROV9	RESIN OUTLET VALVE BOTTOM WASHER	PL1	CHAIN LINK
HIV1	HARDENER OUTLET VALVE SEAL	PH1	HANDLE
HIV2	HARDENER OUTLET VALVE SPRING		

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