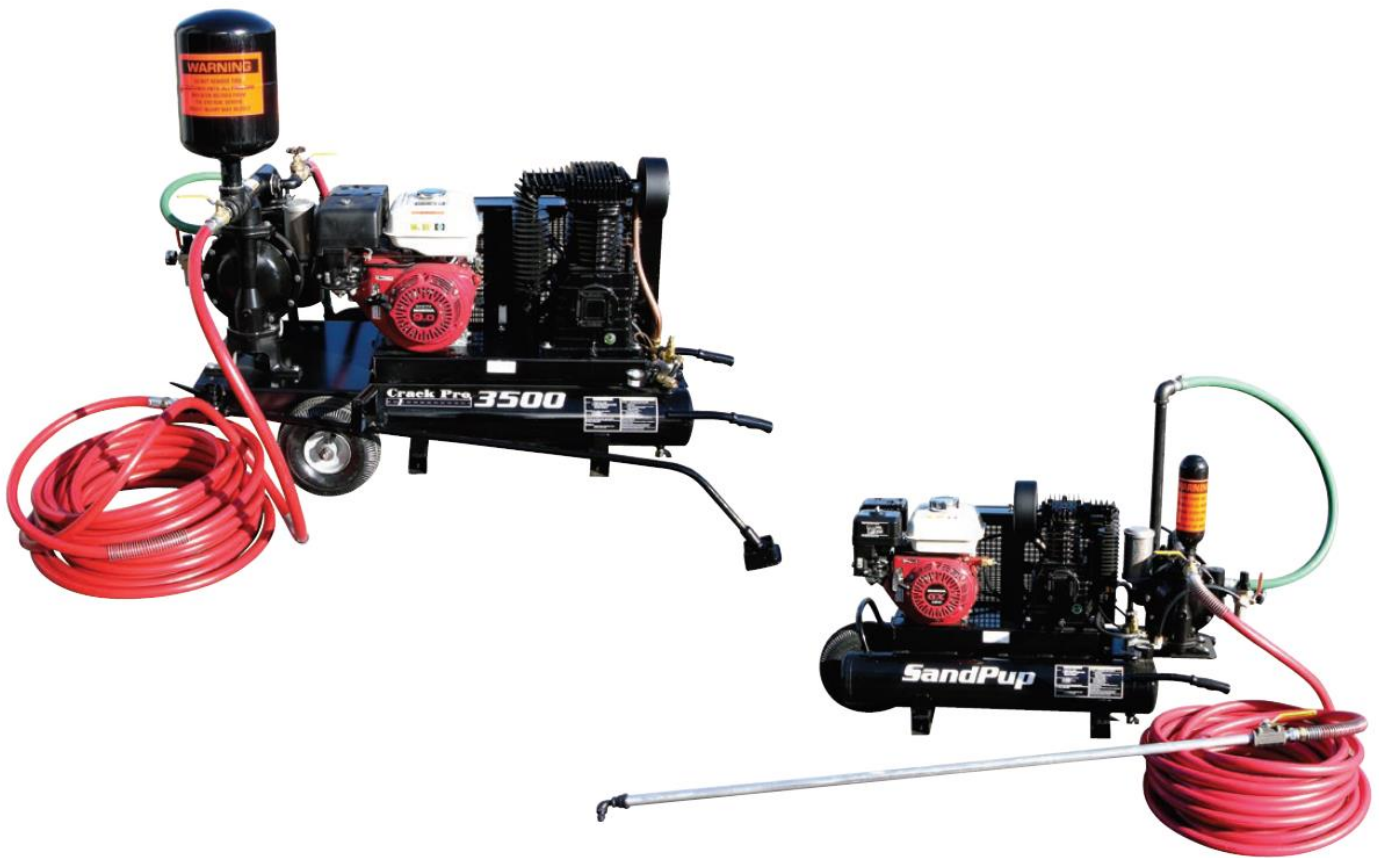


Sand Pup /Crack Pro 2000, 3000 & 3500

OWNERS MANUAL



SealMaster[®]



Pavement Products & Equipment

PO Box 2277 • Sandusky, Ohio 44870 • 419-626-4375

sealmaster.net

SAND PUP CRACK PRO

Owner's Manual

Version 2.0

Issue Date: April 2019

Effective Date: April 2019

Version	Date	Changes	Approval
1.0		Original Issue	
2.0	4/19	New Format and Updates	DS

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ThorWorks Industries, Inc.

Purchased by _____ Model NO. _____
Company Name _____ Serial NO. _____
Address _____ Acceptance Date _____
City _____ State _____ Zip _____

CORRESPONDENCE

All Correspondence regarding this equipment, as well as general correspondence should be addressed to:

ThorWorks Industries, Inc.
PO Box 2277
Sandusky, OH 44870

In referring to the equipment, kindly state the Model Number, Serial Number and any part number involved



SealMaster® LIMITED WARRANTY

SealMaster warrants that its products are of quality material and workmanship. SealMaster agrees to replace, within a period of one (1) year from date of delivery, or at its option, repair, without charge, any part of their manufacture which proved defective. The repair or replacement will be free of charge F.O.B. Sandusky, Ohio, proving the damaged part or parts are returned, freight prepaid, to SealMaster and investigation show such repair or replacement is made necessary by an inherent defect of material or workmanship.

It is hereby understood that engines, motors, pumps, or other components purchased by SealMaster for use on its equipment are not warranted by SealMaster and are sold only with the standard warranty of the manufacturer of that component.

SealMaster will make no allowances for repairs or alterations completed by outside sources unless authorization is in writing and approved by an authorized SealMaster representative.

Any claims for defective material or workmanship must be made prior to the expiration of thirty (30) days from the date failure occurs, and in all cases prior to the expiration of the warranty period of one (1) year. It is the intent of this paragraph to limit SealMaster's liability solely to the cost of replacement parts, F.O.B. factory, or at the option of SealMaster to repair of the defective part or parts. No allowances for damages, lost time, or any other claim will be recognized.

This warranty is null and void if other than genuine SealMaster parts are used.

SealMaster is constantly striving to improve their products. Changes in design and improvement will be made whenever the manufacturer believes the efficiency of the product will be improved, without incurring any obligation to incorporate such improvements in any machines which have been shipped or are in service.

In an effort to continue to improve product quality, SealMaster reserves the right to change specifications without notice.

Any modification or alteration of this machine without prior approval of the manufacturer may void this warranty.

SAFETY PRECAUTIONS AND CAUTIONS

PRECAUTIONS

- **Always** wear **eye** and **ear** protection, and **gloves**.



- Be aware of all **CAUTION, WARNING, DANGER** signs on the unit.
- Read all Owners Manuals that come with this unit.
- Daily check the Engine, Air Compressor oil levels.
- Refer to Owners Manuals for proper types of oils.
- Make sure the operator is familiar with units' operation.
- Shut down compressor engine prior to refilling the gas tank.
- Replace any hoses that show signs of wear, fraying or splitting.
- Be sure all fittings and joints are tight and leak proof.
- Do not do maintenance work on the unit while in operation.
- The unit should not be left unattended when running.

CAUTIONS

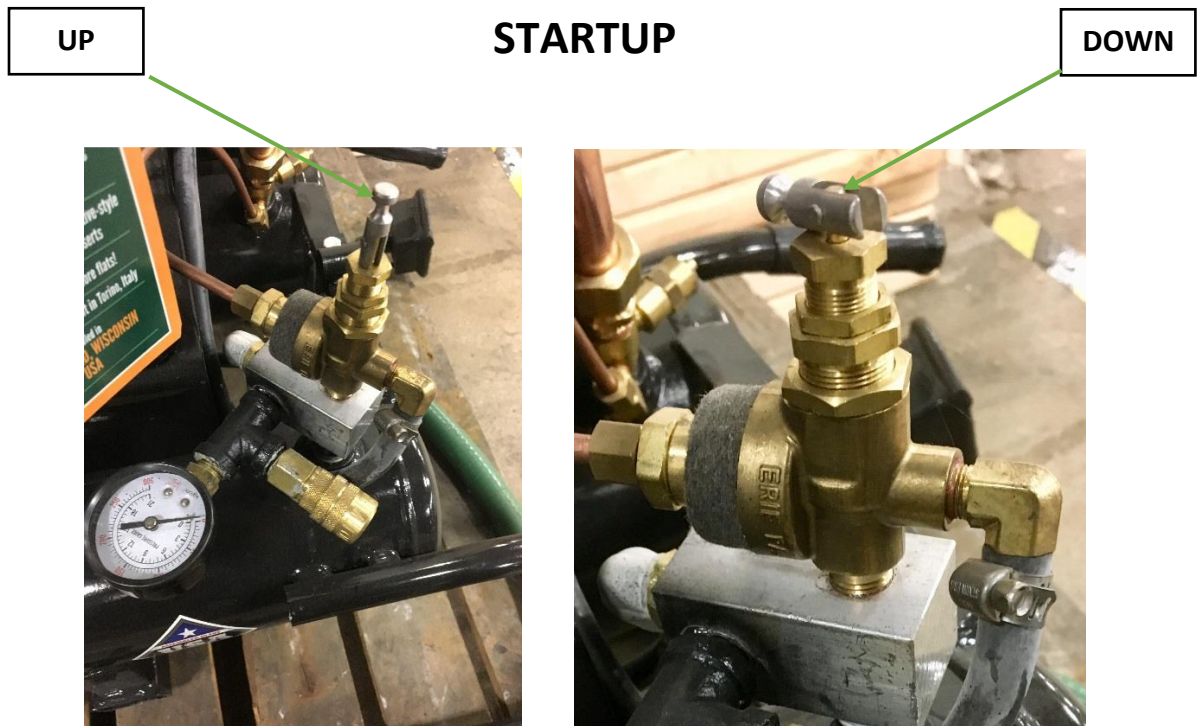
- Keep hands, feet, and clothing away from moving parts.
- Do not operate the machine without all guards in place.
- Do not point the spray applicators at another person.
- Do not operate the machine in an enclosed building or confined area.

SANDPUP PORTABLE SPRAY SYSTEM

CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO SANDPUP, SANDPUP II AND CRACK PRO 3000 / 3500

OPERATING INSTRUCTIONS



1-BEFORE STARTING THE ENGINE

- Move the Unloader valve knob to the **Up** position before starting the engine.
- After the engine has warmed up, swing the lever back **Down**.

SANDPUP PORTABLE SPRAY SYSTEM

CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO SANDPUP, SANDPUP II AND CRACK PRO 3000 / 3500

OPERATING INSTRUCTIONS

STARTUP



2-STARTING THE ENGINE

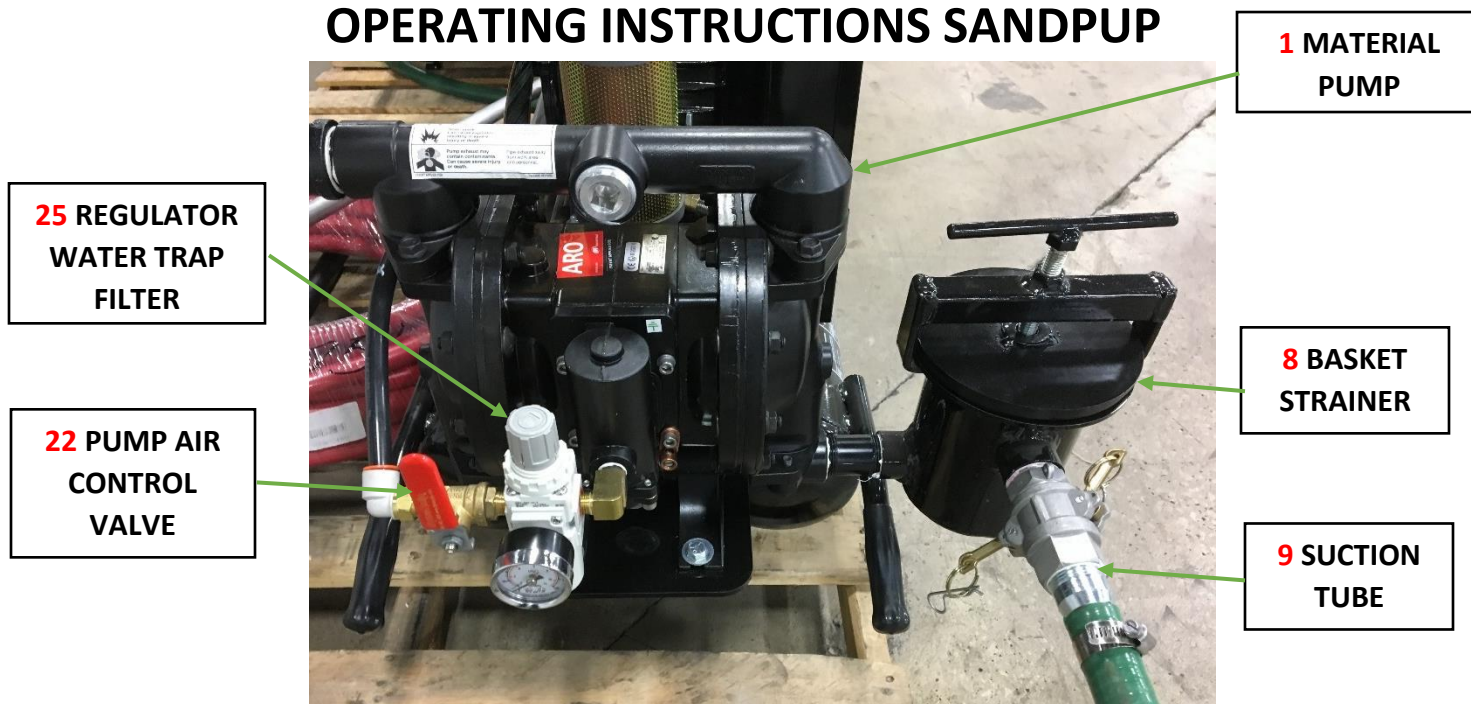
- Set the **fuel** shutoff and **choke** levers to the **on** position.
- Set the engine **on/off** switch to **on** position.
- Pull start the **engine**.
- The engine will run full throttle until the two air tanks are charged. The compressor gauge will show tank pressure of 125psi.
- Once the engine drops back to idle, the unit is ready to start pumping material.

SANDPUP PORTABLE SPRAY SYSTEM

APPLIES TO SANDPUP, SANDPUP II AND PORTA-PUMP

NOTE: **PORTA-PUMP** REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS SANDPUP



3-START TO PUMP MATERIAL

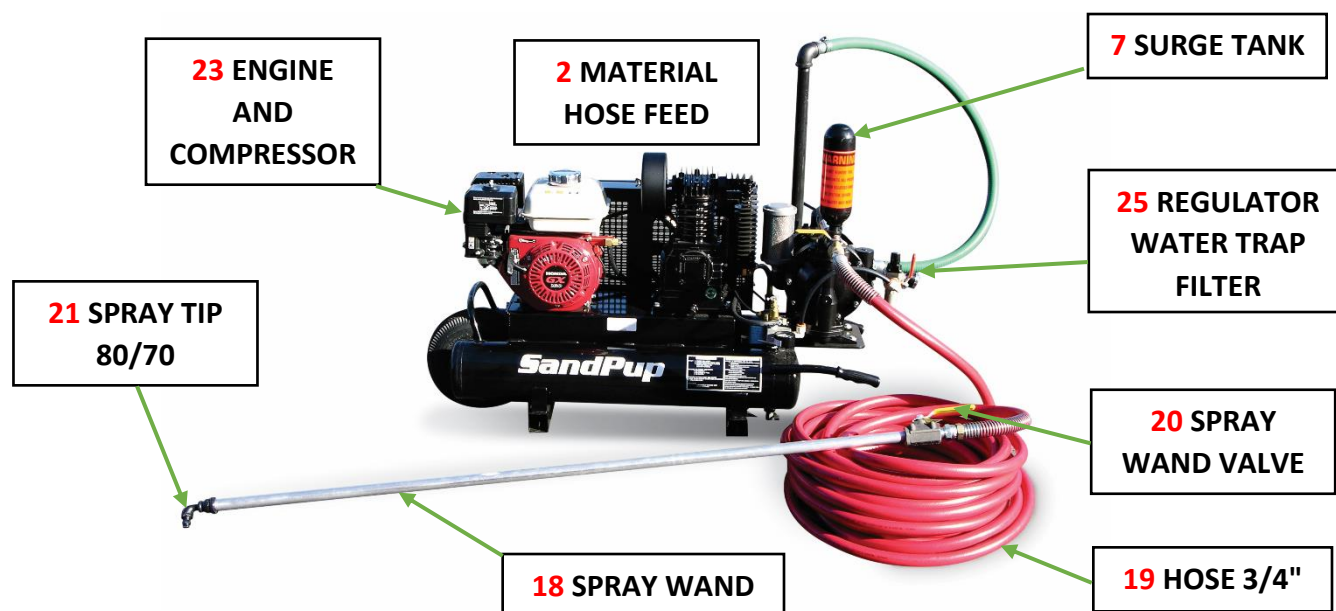
- **NOTE:** For Porta – Pump unit connect your own air compressor, running at 125psi
- Connect the suction tube #9 to the basket strainer #8 and put the pipe in your container of material.
- Attached to the regulator/water trap filter #25 is the pump air control valve #22, it regulates the volume of air that goes to the material pump #1. Regulator factory setting is 80psi. It controls the cycle rate of the material pump #1 and the gallons per minute of material output.
- It is only necessary to open the pump air control valve #22 part way.
- **NOTE:** Opening all the way, will cause the material pump #1 to consume more air than the compressor can produce, which will cause the air pressure to fall.

SANDPUP PORTABLE SPRAY SYSTEM

APPLIES TO SANDPUP, SANDPUP II AND PORTA-PUMP

NOTE: PORTA-PUMP REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS



4-START THE SPRAY WAND

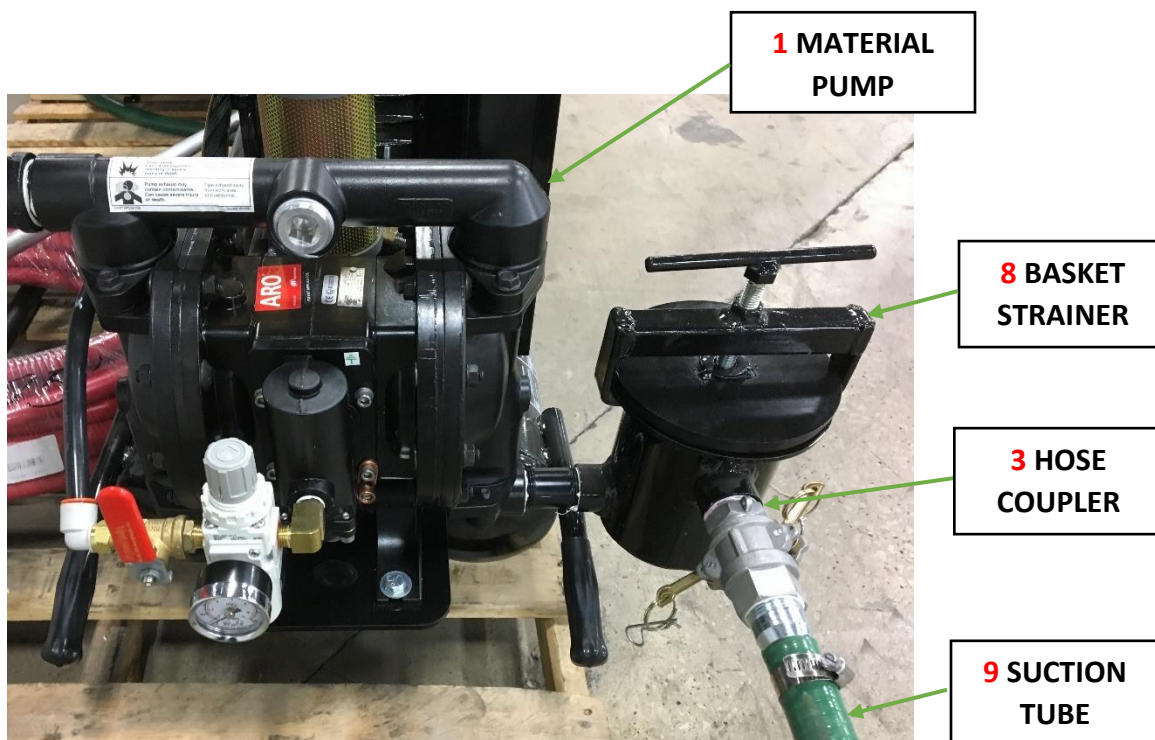
- Open material hose feed valve #2 to pressurize the hose, then the spray wand valve #20. To start spraying. Hold the wand at waist level.
- The thickness of the material determines how much pressure is needed to properly atomize the material.
- Adjust the pressure setting on regulator/water trap #25 to get a proper spray pattern. To do this, turn the knob on top of the regulator in for more or out for less pressure. When the material is coming out of the spray tip 80/70 #21, you will feel the wand push up.
- Walk side to side and overlap 50% for proper coverage.

SANDPUP PORTABLE SPRAY SYSTEM

APPLIES TO SANDPUP, SANDPUP II AND PORTA-PUMP

NOTE: PORTA-PUMP REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS



5-WATER FLUSH

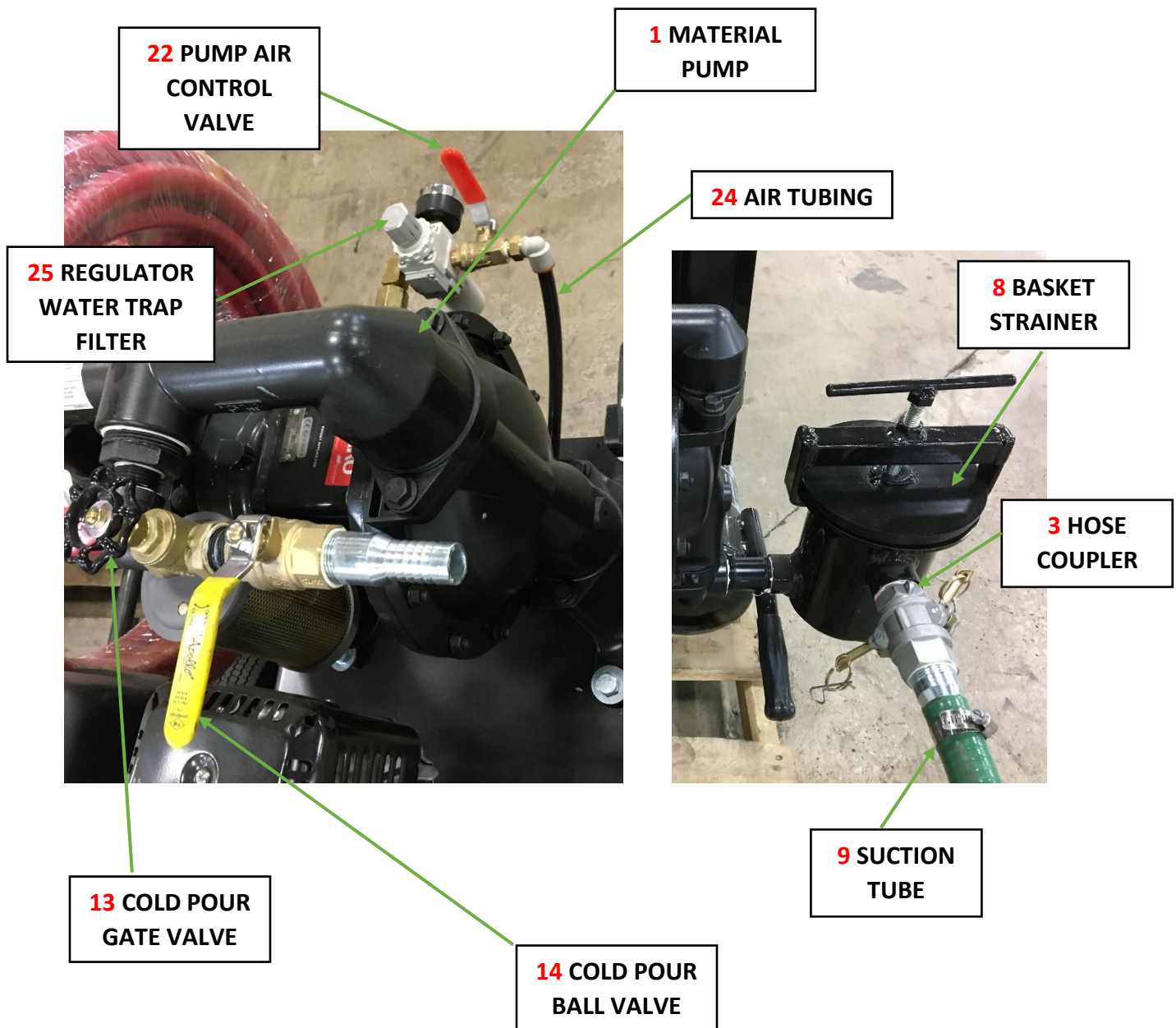
- It is not necessary to flush the system every day.
If the machine is going to be out of service for a week or more, then water flush the system using one of the methods listed below.
- First method: Put the suction tube #9 in a bucket of water and turn on the material pump #1.
- Second method: Remove the lid of the basket strainer #8 and pour water into it with the pump running.

CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO CRACK PRO 2000 -3000 AND 3500

NOTE: CRACK PRO 2000 REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS CRACK PRO



CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO CRACK PRO 2000 -3000 AND 3500

NOTE: CRACK PRO 2000 REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS

3-START TO PUMP MATERIAL

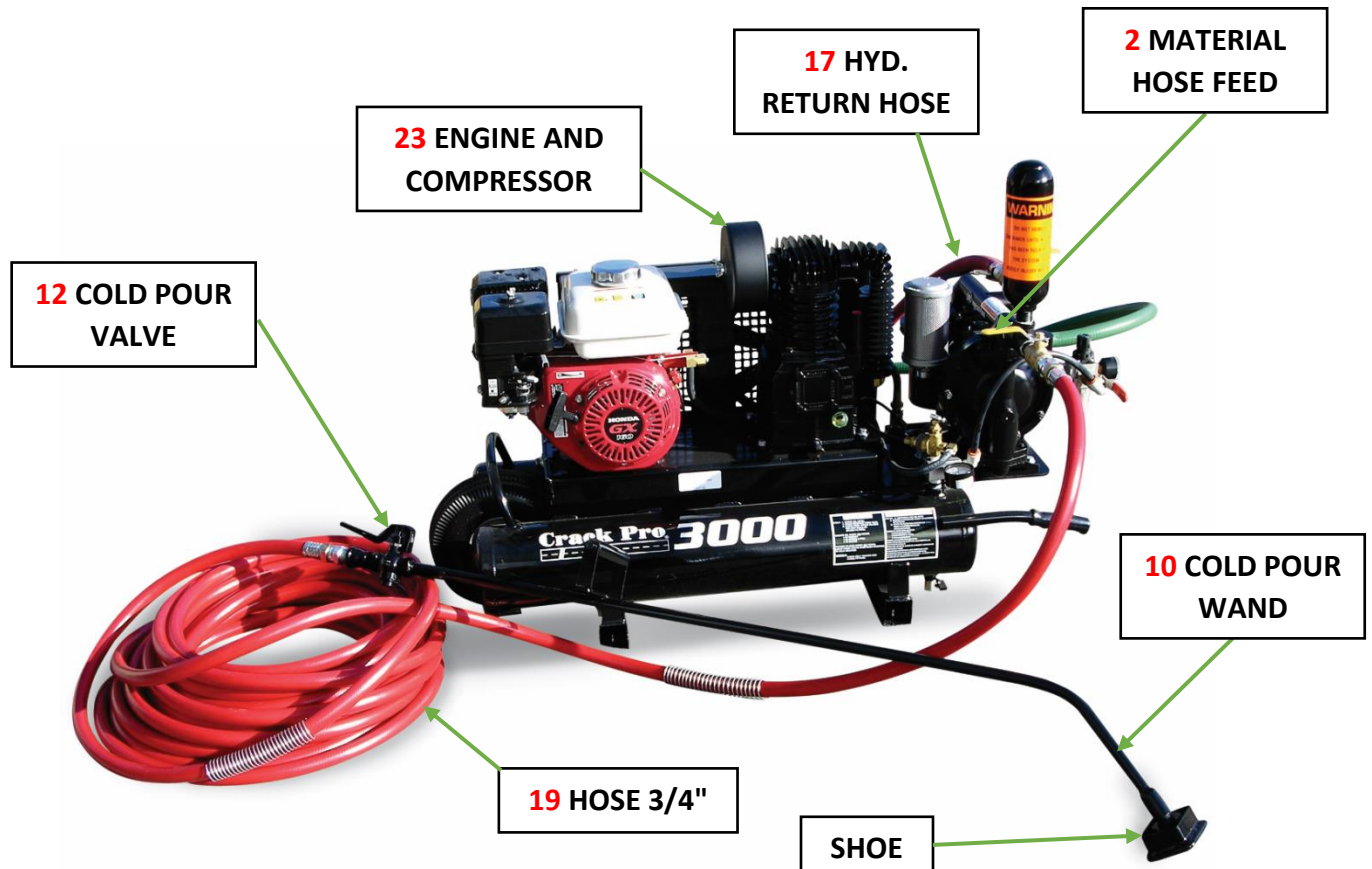
- **NOTE:** For Crack Pro 2000 unit connect your own air compressor running at 125psi
- Connect the suction tube #9 to the basket strainer #8 and put the pipe in your container of material. There is an additional hose #17 and a cold pour ball valve #14 and a cold pour gate valve #13 on the discharge manifold of the material pump #1, this hose #17 also needs to be put in the container.
- Open the cold pour ball valve #14 completely and the cold pour gate valve #13 1-1/2 – 2 turns. This allows some material to always return to the container and prevents the material pump #1 from stopping when you release the cold pour wand #10. More turns on the cold pour gate valve #13, allows more material to return to the container. You can use this cold pour gate valve #13 to adjust how much product comes out of the cold pour wand #10.
- Attached to the regulator/water trap filter #25 is the pump air control valve #22, it regulates the volume of air that goes to the material pump #1. Regulator factory setting is 80psi. It controls the cycle rate of the material pump, and the gallons per minute of material output.
- It is only necessary to open the pump air control valve #22 part way.
NOTE: Opening all the way, will cause the pump to consume more air than the compressor can produce, which will cause the air pressure to fall.
- The material pump #1 will now be drawing material in and sending it back into your container. Once this happens, close the cold pour ball valve #14 on the return hose. The gauge on the pump pressure regulator will now rise and stop. Set the pressure to 40 psi by turning the knob on top of the regulator/water trap filter #25 in for more pressure or out for less pressure. Open the cold pour ball valve #14. Thicker material will require more pressure than thinner material.

CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO CRACK PRO 2000 -3000 AND 3500

NOTE: CRACK PRO 2000 REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS



4-START THE CRACK FILLER WAND

- Open material hose feed valve #2 and squeeze the cold pour valve #12, the sealant will push all of the air out as it rushes down the hose. Begin to walk with the cold pour wand #10 as you apply the sealant. The objective is to keep the cold pour **shoe** full of the product without overflowing, alternately squeezing and releasing the cold pour valve #12.

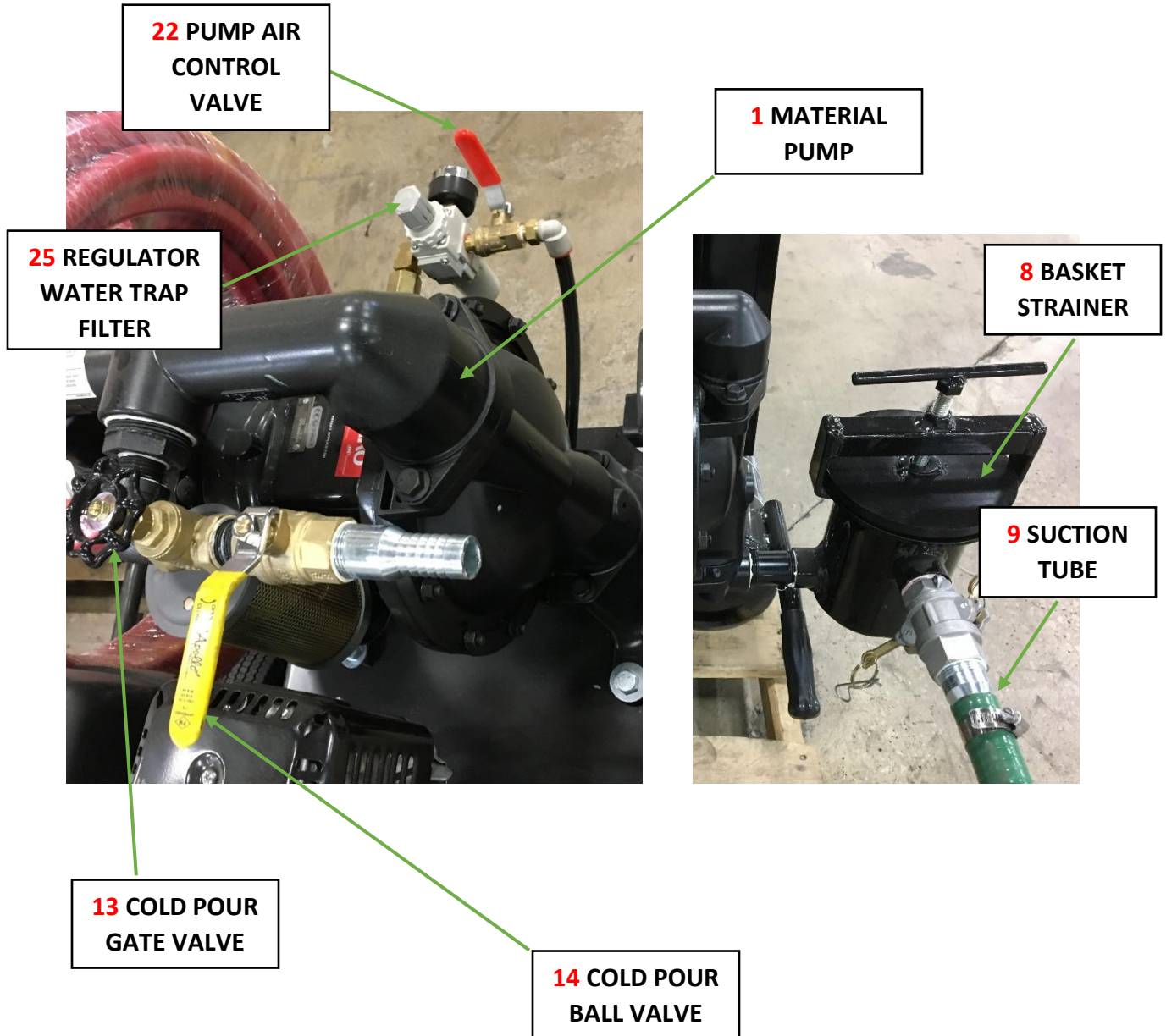
Helpful Hint: With a little experience, you will be able to tell when to fill the cold pour **shoe** and how close to the end of the crack to let the shoe empty.

CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO CRACK PRO 2000 -3000 AND 3500

NOTE: CRACK PRO 2000 REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS CRACK PRO



CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO CRACK PRO 2000 -3000 AND 3500

NOTE: CRACK PRO 2000 REQUIRES SEPARATE AIR COMPRESSOR AND REGULATOR

OPERATING INSTRUCTIONS

5-WATER FLUSH

- Flush the material pump #1 and suction tube #9 periodically.
- It is not necessary to flush the system every day.
If the machine is going to be out of service for a week or more, then water flush the system using one of the methods listed below.
- **First method:** Put the suction tube #9 in a bucket of water and turn on the material pump #1.
- **Second method:** Remove the lid of the basket strainer #8 and pour water into it with the pump running.
- Flushing is important as it keeps the check balls from sticking to the ball seats.
- **NOTE:** Do not touch the cold pour gate valve #13 setting, but you can close the cold pour ball valve #14 on the return hose.
- **NOTE:** Never leave the material pump #1 empty. Always store with water or material in the system. This prevents skinning of product within the system. It is also a good idea to put a slight amount of water on top of the material in your container to prevent skinning as you are filling cracks.
- The above settings are a guideline to get started. The viscosity of your product determines how much pressure and flow is needed to adequately supply the product to the applicator wand. You may have to fine tune the settings listed above.

SANDPUP PORTABLE SPRAY SYSTEM AND CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO: PORTA-PUMP AND CRACK PRO 2000

PARTS LIST

PARTS LIST - CRACK PRO 2000 AND PORTA-PUMP

ITEM #	PART#	QTY.	DESCRIPTION
1	P640A060	1	DIAPHRAGM PUMP-MATERIAL 1" ARO
2	P397A001	1	MATERIAL HOSE FEED VALVE 3/4" BALL
3	P477A018	1	1" HOSE COUPLER
4	P1000A051	1	1/4" NIPPLE-CLOSE
5	P397A011	1	1/4" BALL VALVE BRASS
6	P571A002	1	1/4" AIR ADAPTER
7	P30003E	1	SURGE TANK
8	P50147B004	1	BASKET STRAINER ASSEMBLY
9	P71001B001	1	SUCTION TUBE ASSEMBLY

PARTS LIST – **CRACK PRO 2000 ONLY**

ITEM #	PART#	QTY.	DESCRIPTION
10	P50273D	1	COLD POUR WAND
11	P754B025	1	3/4" HOSE X 50' LONG
12	P397A020	1	COLD POUR 1/2" GLOBE VALVE
13	P399A001	1	COLD POUR 1/2" GATE VALVE
14	P397A009	1	COLD POUR 1/2" BALL VALVE BRASS
15	P50343	1	CRACK FILLER ASSEMBLY OPTIONAL
16	P50342	1	CRACK CLEANING ASSEMBLY OPTIONAL
17	P712A048	1	HYD. HOSE 200 PSI 5/8" X 48"

PARTS LIST – **PORTA-PUMP ONLY**

ITEM #	PART#	QTY.	DESCRIPTION
18	P50273B	1	SPRAY WAND
19	P754B026	1	3/4" HOSE X 75' LONG
20	P397A010	1	SPRAY WAND VALVE 3/4" BALL STEEL
21	P449A004	1	SPRAY TIP 80/70 – 3/8 NPT STEEL

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO: SANDPUP AND CRACK PRO 3000

PARTS LIST - CRACK PRO 3000 AND SANDPUP

ITEM #	PART#	QTY.	DESCRIPTION
1	P640A060	1	DIAPHRAGM PUMP-MATERIAL 1" ARO
2	P397A001	1	MATERIAL HOSE FEED VALVE 3/4" BALL
3	P477A018	1	1" HOSE COUPLER
7	P30003E	1	SURGE TANK
8	P50147B004	1	BASKET STRAINER ASSEMBLY
9	P71001B001	1	SUCTION TUBE ASSEMBLY
22	P397A033	1	PUMP AIR CONTROL VALVE 1/4" BALL
23	P458A045	1	4.8 HP ENGINE AND COMPRESSOR
24	P709C000	1	1/2" X 18" AIR TUBING
25	P735A046	1	REGULATOR/WATER TRAP FILTER

PARTS LIST – CRACK PRO 3000 ONLY

ITEM #	PART#	QTY.	DESCRIPTION
10	P50273D	1	COLD POUR WAND
11	P754B025	1	3/4" HOSE X 50' LONG
12	P397A020	1	COLD POUR 1/2" GLOBE VALVE
13	P399A001	1	COLD POUR 1/2" GATE VALVE
14	P397A009	1	COLD POUR 1/2" BALL VALVE BRASS
15	P50343	1	CRACK FILLER ASSEMBLY OPTIONAL
16	P50342	1	CRACK CLEANING ASSEMBLY OPTIONAL
17	P712A048	1	HYD. HOSE 200 PSI 5/8" X 48"

PARTS LIST – SANDPUP ONLY

ITEM #	PART#	QTY.	DESCRIPTION
18	P50273B	1	SPRAY WAND
19	P754B026	1	3/4" HOSE X 75' LONG
20	P397A010	1	SPRAY WAND VALVE 3/4" BALL STEEL
21	P449A004	1	SPRAY TIP 80/70 – 3/8 NPT STEEL

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO: SANDPUP II AND CRACK PRO 3500

PARTS LIST - CRACK PRO 3500 AND SANDPUP II

ITEM #	PART#	QTY.	DESCRIPTION
1	P640A061	1	DIAPHRAGM PUMP-MATERIAL 1-1/2" ARO
2	P397A001	1	MATERIAL HOSE FEED VALVE 3/4" BALL
3	P477A018	1	1" HOSE COUPLER
7	P30003F	1	SURGE TANK
8	P50147B011	1	BASKET STRAINER ASSEMBLY
9	P71001B001	1	SUCTION TUBE ASSEMBLY
22	P397A033	1	PUMP AIR CONTROL VALVE 1/4" BALL
23	P458A046	1	9 HP ENGINE AND COMPRESSOR
24	P709C000	1	1/2" X 60" AIR TUBING
25	P735A047	1	REGULATOR/WATER TRAP FILTER

PARTS LIST – CRACK PRO 3500 ONLY

ITEM #	PART#	QTY.	DESCRIPTION
10	P50273D	1	COLD POUR WAND
11	P754B025	1	3/4" HOSE X 50' LONG
12	P397A020	1	COLD POUR 1/2" GLOBE VALVE
13	P399A002	1	COLD POUR 3/4" GATE VALVE
14	P397A001	1	COLD POUR 3/4" BALL VALVE BRASS
15	P50343	1	CRACK FILLER ASSEMBLY OPTIONAL
16	P50342	1	CRACK CLEANING ASSEMBLY OPTIONAL
17	P713A095	1	HYD. HOSE 300 PSI 3/4" X 95"

PARTS LIST – SANDPUP II ONLY

ITEM #	PART#	QTY.	DESCRIPTION
18	P50273B	1	SPRAY WAND
19	P754B026	1	3/4" HOSE X 75' LONG
20	P397A010	1	SPRAY WAND VALVE 3/4" BALL STEEL
21	P449A004	1	SPRAY TIP 80/70 – 3/8 NPT STEEL

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO SANDPUP, PORTA-PUMP AND CRACK PRO 2000 / 3000

PARTS LIST - ARO 1" PUMP

DESCRIPTION	S/M PART #	ARO - PART #	QTY.
ROD	P975A001	97146	1
BACKUP WASHER	P975A002	95990-3	2
DIAPHRAGM WASHER	P975A003	95990-3	2
DIAPHRAGM HYTREL	P975A004	96267-C	2
WASHER	P975A005	93189-1	2
SCREW M12 X 1.75-6G X 25MM	P975A006	95997	2
FLUID COVER	P975A007	95935	2
SEAT- HYTREL	P975A008	96152-C	4
BALL- HYTREL	P975A009	93278-C	4
SCREW M8 X 1.25-6G X 30MM	P975A010	95880-1	8
BOLT M8 X 1.25-6G X 40MM	P975A011	95896-1	20
HEX FLANGE NUT M8 X 1.25-6H	P975A012	95879-1	20
INLET MANIFOLD	P975A013	95936	1
OUTLET MANIFOLD	P975A014	95960	1
PIPE PLUG 1" N.P.T.	P975A015	Y17-125	1
GROUND LUG	P975A016	93004	1
AIR CAP INNER CHAMBER	P975A017	95994-4	1
AIR CAP INNER CHAMBER	P975A018	95994-3	1
GASKET	P975A019	95843	2
SCREW M8 X 1.25-6G X 95MM	P975A020	96001	4
U CUP 3/16" X 1-1/8" O.D.	P975A021	Y186-49	2
O-RING 3/32" X 13/16" O.D.	P975A022	Y325-114	2
WASHER .406 I.D. X .031" THICK	P975A023	96006	4

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO SANDPUP, PORTA-PUMP AND CRACK PRO 2000 / 3000

PARTS LIST FOR ARO 1" PUMP

DESCRIPTION	S/M PART #	ARO - PART #	QTY.
NUT M8 X 1.25-6H	P975A024	96005	4
CENTER BODY	P975A025	97025	1
BUSHING	P975A026	97391	1
SCREW M6 X 1- 6G X 16MM	P975A027	95991	4
SPOOL	P975A028	95835	1
ACTUATOR PIN	P975A029	95999	2
SLEEVE	P975A030	95123	2
PIPE PLUG 1/8-27 N.P.T. X .27"	P975A031	Y17-50-S	1
GASKET	P975A032	96170	1
WASHER	P975A033	Y117-416-C	3
SCREW M6 X 1- 6G X 20MM	P975A034	95887	6
VALVE BLOCK	P975A035	95942-3	1
END CAP	P975A036	95941	1
GASKET	P975A037	95844	1
U CUP 3/16" X 1-5/8" O.D.	P975A038	Y186-53	1
U CUP 3/16" X 1-1/8" O.D.	P975A039	Y186-49	1
VALVE INSERT	P975A040	95838	1
VALVE PLATE	P975A041	95885	1
GASKET	P975A042	96171	1
PILOT PISTON - WITH O-RING & U CUP	P975A043	67164	1
O-RING 3/32" X 5/8" O.D.	P975A044	94433	2
U CUP 1/8" X 7/8" O.D.	P975A045	Y240-9	1

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO SANDPUP, PORTA-PUMP AND CRACK PRO 2000 / 3000

PARTS LIST FOR ARO 1" PUMP

DESCRIPTION	S/M PART #	ARO - PART #	QTY.
PISTON SLEEVE	P975A046	94081	1
O-RING 3/32" X 1-1/8" O.D.	P975A047	Y325-119	1
O-RING 1/16" X 1-1/8" O.D.	P975A048	Y325-22	1
O-RING 3/32" X 1-3/8" O.D.	P975A049	Y325-123	2
O-RING 1/8" X 1/2" O.D.	P975A050	Y325-202	2
DIAPHRAGM CHECK VALVE	P975A051	95845	2
ROLL PIN 5/32" O.D. X 1/2" LONG	P975A052	Y178-52-S	4
GASKET	P975A053	96172	1
MUFFLER	P975A054	93139	1
ADAPTER PLATE	P975A055	95832	1
LUBRIPLATE FML-2 GREASE	P975A056	94276	1
LUBRIPLATE GREASE PACKETS	P975A057	637308	1
MAJOR VALVE ASSEMBLY	P975A058	637395-3	1
MATERIAL PUMP REBUILT KIT	P975A059	637401-CC	1
AIR VALVE REPAIR KIT	P975A060	637397	1

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO: SANDPUP II AND CRACK PRO 3500

PARTS LIST - ARO 1-1/2" PUMP

DESCRIPTION	S/M PART #	ARO - PART #	QTY.
ROD	P976A001	95824	1
BACKUP WASHER	P976A002	95819-3	2
DIAPHRAGM WASHER	P976A003	95819-3	2
WASHER	P976A004	Y13-8-T	2
SCREW M14 X 2-6G X 45MM	P976A005	95883	2
FLUID CAP OUTER CHAMBER	P976A006	95821	2
SEAT	P976A007	95825-C	4
BALL	P976A008	95826-C	4
SCREW M10 X 1.5-6G X 30MM	P976A009	95884-1	8
BOLT M8 X 1.25-6G X 40MM	P976A010	95896-1	20
HEX FLANGE NUT M8 X 1.25-6H	P976A011	95879-1	20
GROUND LUG	P976A012	93004	1
INLET MANIFOLD	P976A013	95828-1	1
OUTLET MANIFOLD	P976A014	95827-1	1
PIPE PLUG 1-1/2" N.P.T.	P976A015	Y17-127	2
AIR CAP INNER CHAMBER	P976A016	95822-1	1
AIR CAP INNER CHAMBER	P976A017	95822-2	1
GASKET	P976A018	95843	2
SCREW M10 X 1.5-6G X 100MM	P976A019	95934	4
U CUP 3/16" X 1-1/4" O.D.	P976A020	Y186-50	2
O-RING 3/32" X 13/16" O.D.	P976A021	Y325-114	2
WASHER .406 I.D. X .031" THICK	P976A022	94098	4

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO: SANDPUP II AND CRACK PRO 3500

PARTS LIST FOR ARO 1-1/2" PUMP

DESCRIPTION	S/M PART #	ARO - PART #	QTY.
NUT M10 X 1.5-6H	P976A023	93010	4
CENTER BODY	P976A024	95888	1
BUSHING	P976A025	95823	1
SCREW M6 X 1- 6G X 16MM LONG	P976A026	95991	4
SPOOL	P976A027	95835	1
ACTUATOR PIN	P976A028	95839	2
SLEEVE	P976A029	95123	2
PIPE PLUG 1/8-27 N.P.T. X .27"	P976A030	Y17-50-S	1
GASKET	P976A031	96170	1
WASHER	P976A032	Y117-416-C	3
SCREW M6 X 1- 6G X 20MM	P976A033	95887	4
VALVE BLOCK	P976A034	95942-1	1
END CAP	P976A035	95941	1
GASKET	P976A036	95844	1
U CUP 3/16" X 1-5/8" O.D.	P976A037	Y186-53	1
U CUP 3/16" X 1-1/8" O.D.	P976A038	Y186-49	1
VALVE INSERT	P976A039	95838	1
VALVE PLATE	P976A040	95837	1
GASKET	P976A041	96171	1
PILOT PISTON - WITH O-RING & U CUP	P976A042	67164	1
O-RING 3/32" X 5/8" O.D.	P976A043	94433	2
U CUP 1/8" X 7/8" O.D.	P976A044	Y240-9	1

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS

APPLIES TO: SANDPUP II AND CRACK PRO 3500

PARTS LIST FOR ARO 1-1/2" PUMP

DESCRIPTION	S/M PART #	ARO - PART #	QTY.
PISTON SLEEVE	P976A045	94081	1
O-RING 3/32" X 1-1/8" O.D.	P976A046	Y325-119	1
O-RING 1/16" X 1-1/8" O.D.	P976A047	Y325-22	1
O-RING 3/32" X 1-3/8" O.D.	P976A048	Y325-123	2
O-RING 1/8" X 1/2" O.D.	P976A049	Y325-202	2
DIAPHRAGM CHECK VALVE	P976A050	95845	2
ROLL PIN 5/32" O.D. X 1/2" LONG	P976A051	Y178-52-S	4
GASKET	P976A052	96172	1
MUFFLER	P976A053	93139	1
ADAPTER PLATE	P976A054	95832	1
LUBRIPLATE FML-2 GREASE	P976A055	94276	1
LUBRIPLATE GREASE PACKETS	P976A056	637308	1
MAJOR VALVE ASSEMBLY	P976A057	637390-3	1
AIR VALVE SERVICE KIT	P976A058	637389	1
MATERIAL PUMP REBUILT KIT	P976A059	637375-CC	1
DIAPHRAGM	P976A060	96166-C	2

SANDPUP PORTABLE SPRAY SYSTEM
CRACK PRO COLD-POUR CRACK FILLER UNITS
MACHINE MAINTENANCE

MAINTENANCE SCHEDULE

Follow maintenance procedures listed in the engine and compressor manuals.

MAINTAIN	8 HRS	1 WEEK	1 MONTH	6 MONTHS	1 YEAR
CHECK ENGINE OIL LEVEL	✓				
CHANGE ENGINE OIL				✓	
CHECK COMPRESSOR OIL LEVELS	✓				
CHANGE COMPRESSOR OIL			✓		
INSPECT COMPRESSOR AIR FILTER	✓				
CHANGE COMPRESSOR AIR FILTER			✓		
DRAIN WATER FROM COMPRESSOR		✓			
DRAIN WATER FROM REGULATOR	✓				
TIGHTEN V-BELT		✓			
REPLACE V-BELT					✓
INSPECT ALL HOSES	✓				

SANDPUP PORTABLE SPRAY SYSTEM

CRACK PRO COLD-POUR CRACK FILLER UNITS

MACHINE MAINTENANCE

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES/SOLUTIONS
AIR COMPRESSOR NOT PRODUCING ENOUGH AIR OR PRESSURE	BELTS LOOSE / TIGHTEN THE BELTS
	PILOT UNLOADER VALVE / REFER TO OWNER'S MANUAL
	AIR COMPRESSOR FLUID IN TRAP / DRAIN OUT WATER WEEKLY
ENGINE ISSUES	OIL SPECIFICATIONS / REFER TO OWNER'S MANUAL
	OPERATING INSTRUCTIONS / REFER TO OWNER'S MANUAL
	FUEL IN OIL CRANKCASE / FUEL SHUT-OFF VALVE IN OFF POSITION WHEN FINISHED
MATERIAL PUMP MATERIAL FLOW IS REDUCED	BASKET STRAINER IS PLUGGED / UNPLUG
	PLUMBING LEADING TO PUMP IS PLUGGED / UNPLUG
	PUMP WORN / NEEDS NEW BALLS AND BALL SEATS REPLACED
	MATERIAL TOO THICK/ THIN WITH WATER
MATERIAL PUMP WILL NOT CYCLE	AIR VALVE IS PLUGGED / CLEAN AND LUBRICATE
MATERIAL PUMP AIR COMING OUT OF SPRAY TIP	DIAPHRAGM HAS TEAR / REPLACE ONE OR BOTH
	LOOSE FITTINGS ON SUCTION LINE / TIGHTEN
	BASKET STRAINER LID GASKET LOOSE / SEAT PROPERLY OR REPLACE
MATERIAL PUMP SEALER COMING OUT	DIAPHRAGM IS LOOSE / REPLACE ONE OR BOTH
MATERIAL PUMP AIR COMING OUT OF PUMP	AIR VALVE FAULTY/ REPLACE VALVE
MATERIAL PUMP DOES NOT STALL WHEN SPRAY WAND IS CLOSED	BASKET STRAINER IS PLUGGED / UNPLUG
	PLUMBING LEADING TO PUMP IS PLUGGED / UNPLUG

SANDPUP PORTABLE SPRAY SYSTEM

CRACK PRO COLD-POUR CRACK FILLER UNITS

MACHINE MAINTENANCE

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES/SOLUTIONS
AIR REGULATOR DROPS PRESSURE	MATERIAL TOO THICK/ THIN WITH WATER CHECK VALVE IS DAMAGED / INSPECT BALLS AND BALL SEATS
SURGE TANK EXCESSIVE PULSATION	SURGE TANK PLUGGED / CLEAN OUT TANK
BASKET STRAINER EXCESSIVE PLUGGING	MATERIAL CHUNKS/ EMPTY TANK-FLUSH WITH WATER EXCESSIVE SAND / LACK OF SEALER VISCOSITY MODIFIER

SURGE TANK – NOTE

WEARING OF A FACE SHIELD IS RECOMMENDED

PRESSURE CAN BE RELIEVED FROM SYSTEM BY OPENING THE SPRAY WAND AND MATERIAL HOSE FEED VALVES AND IF NECESSARY, REMOVING THE SPRAY TIP.

KEEP IN MIND THE PLUMBING CONNECTING THE PUMP TO THE SURGE TANK COULD ALSO BE PLUGGED, AND THERE MAY BE RESIDUAL PRESSURE STILL IN THE SYSTEM.