

Instruction Sheet

HH & H9 Spare Parts Instructions

Part Number SP-987



ALWAYS wear protective clothing, face shield, safety glasses and gloves when working near or performing any maintenance or replacement on your pump. See MSDS sheets from solution supplier for additional precautions.



Installation Instructions:

1. Remove the top check valve assembly from the pump head. Grip the check valve body with a wrench across the flats and unscrew counter clock wise. Repeat to remove bottom check valve.
2. Disassemble the check valve assemblies. Grip the check valve body with pliers across the flats and unscrew the backing nut counter clock wise using a 3/16" allen wrench. The check valves (ITEM 1) can be easily pushed out of the valve body from the O-Ring side of the valve body. Insert a pin and lightly press out both check valves (a #6 screw or the reverse end of a 1/8" drill works nicely as a pin). Repeat for second valve.
3. Remove the valve body O-Ring (ITEM 2). Using your finger nail or paper clip pry out the O-Ring.
4. Install the new check valve assemblies (ITEM 1) into the valve body. IMPORTANT: The order of assembly is critical to proper pump operation. Use the illustration as a guide. The top check valve is assembled differently than the bottom check valve assembly. Use the backing nut to push the check valves into the valve body. When the backing nut thread meets the valve, screw the remaining portion of the backing nut into the fitting. Tighten the backing nut until it bottoms completely.
5. Install new O-Rings (ITEM 2). Press the new O-Rings in place with your thumb.
6. Install check valve assemblies into pump head. Using a wrench, tighten the check valve assemblies until they completely bottom in the pump head.
7. Remove the pump head. Using a 9/64" allen wrench, remove the four head bolts (ITEM 3), gently twist the head left and right while pulling the pump head toward you.

Note: Before removing the support guide and shaft seal take a moment to note the proper orientation of these parts in the head.
8. Remove the support guide (ITEM 4) and the shaft seal (ITEM 5). Using the back of a pen or pencil, lightly pry out the old support guide and shaft seal.
9. Install the new support guide (ITEM 4) in the pump head. Using your thumb, lightly press the new support guide into the head until it bottoms.
10. Install the new shaft seal (ITEM 5) in the pump head. Note: be sure the part is being oriented correctly. Using your thumb, lightly press the shaft seal into position on top of the support guide.
11. Remove the spacer. Gently twist the spacer left and right while pulling toward you.
12. Remove the spacer O-Ring (ITEM 6). Carefully remove the old O-Ring.
13. Install new spacer O-Ring (ITEM 6)
14. Remove the shaft seal O-Ring (ITEM 7). Carefully remove the old O-Ring.
15. Install new shaft seal O-Ring (ITEM 7).
16. Install the spacer and pump head. Place the spacer over the shaft. Place the pump head over the shaft. Twist the head left and right while applying pressure to allow the head to engage the O-Ring. Align the head so the four bolts thread easily into the shaft housing. Tighten bolts.



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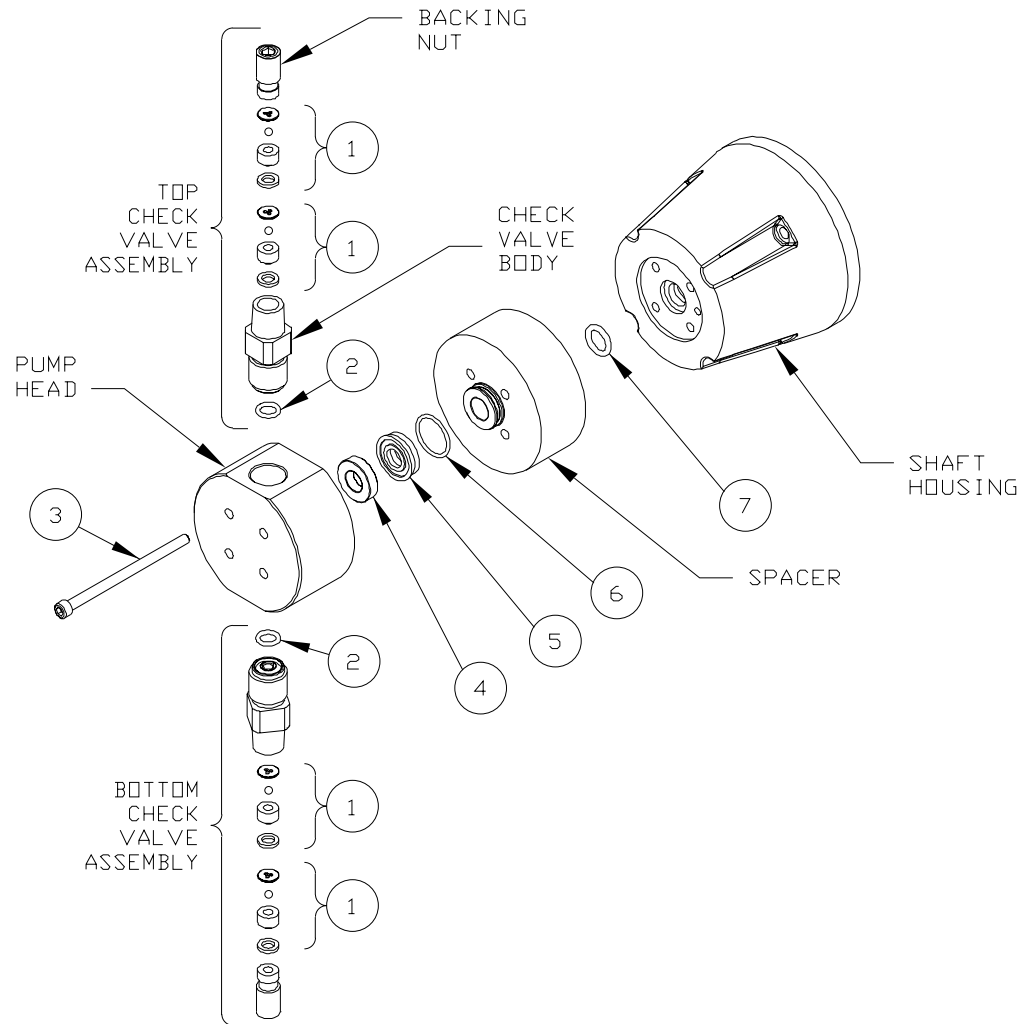


Figure 1

SP-987 PARTSLIST

Item #	Part Number	Description	Qty
1	21283	Ball Stop	4
	4070014033	Ball	4
	21391	Seat	4
	T-009	O-Ring	4
2	40920	O-Ring	2
3	34106	Bolt	4
4	21359	Support Guide	1
5	48033	Shaft seal	1
6	40573	O-Ring	1
7	35153	O-Ring	1