

BINKS BINKS CATALYST PUMP ASSEMBLY
MODEL: 101-9450



| SPECIFICATIONS | |
|---|---|
| Maximum working pressure: | 2000 psi (138 bar) |
| Inlet connection: | 1/4" NPT (F) |
| Outlet connection (2x): | 1/8" NPT (F) |
| Maximum stroke: | 2.95" (75 mm) |
| Output / cycle @ max. stroke: | .17 oz. (5.1 cc) |
| Wetted parts (materials of construction): | Stainless Steel, PTFE, Silicone Rubber, UHMWPE |

BINKS MODEL 101-9450 CATALYST PUMP ASSEMBLY

**HIGH PRESSURE CAN CAUSE SERIOUS INJURY IF EQUIPMENT IS INSTALLED OR USED INCORRECTLY—
 READ, UNDERSTAND, AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS MANUAL.
 FOR GENERAL SAFETY INFORMATION CONCERNING BINKS EQUIPMENT, SEE SAFETY BOOKLET 77-5300.
 INSTALL, OPERATE OR SERVICE THIS EQUIPMENT ONLY AFTER
 ALL INSTRUCTIONS ARE CLEARLY UNDERSTOOD.**

It is the responsibility of the employer to place this information into the hands of the operator.

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| ⚠ WARNING |
| Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage. |

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| ⚠ CAUTION |
| Hazards or unsafe practices which could result in minor personal injury, product or property damage. |

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| NOTE |
| Important installation, operation or maintenance information. |

⚠ **WARNING**



When using Binks equipment with Methyl Ethyl Ketone Peroxide in Plasticizer OBSERVE the following precautions

CORROSIVE TO THE EYES – MAY CAUSE BLINDNESS. MAY BE FATAL IF SWALLOWED. STRONG IRRITANT. CONTAMINATION OR HEAT MAY LEAD TO FIRE OR EXPLOSIVE DECOMPOSITION. COMBUSTIBLE.



Do not handle or use until safety precautions concerning Methyl Ethyl Ketone Peroxides in the Manufacturer’s literature have been read and understood.

Contact with foreign materials, especially strong mineral acids, metals (including certain equipment and containers) or metal salts, or exposure to heat above 135° F (57° C) may lead to violent decomposition, releasing flammable vapors which may self-ignite.

Do not get into eyes or on skin or clothing. Wear eye and skin protection when handling. Avoid breathing mist. Use with adequate ventilation. Store only it in the original closed container. Wash hands thoroughly after handling. Protect from direct sunlight, heat, sparks and other sources of ignition. Prevent contamination with foreign materials. Do not add to hot materials.

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| FIRST AID |
| <p>EYES Wash immediately (seconds count) with water and continue washing for at least 15 minutes. Obtain medical attention.</p> <p>SKIN Wash with soap and water. Remove contaminated clothes and shoes and again wash thoroughly with soap and water.</p> <p>SWALLOWING Administer large quantities of milk or water. Obtain immediate medical attention for lavage.</p> |

To maintain the chemical activity store below 100° F (38° C).

In case of fire, use water spray, foam or dry chemical.

In case of spill or leak, absorb or blend with inert, non-combustible material. Put in suitable container. Dispose of immediately in accordance with federal, state and local regulations.

Do not reuse container as some of the original hazardous contents may still be present.

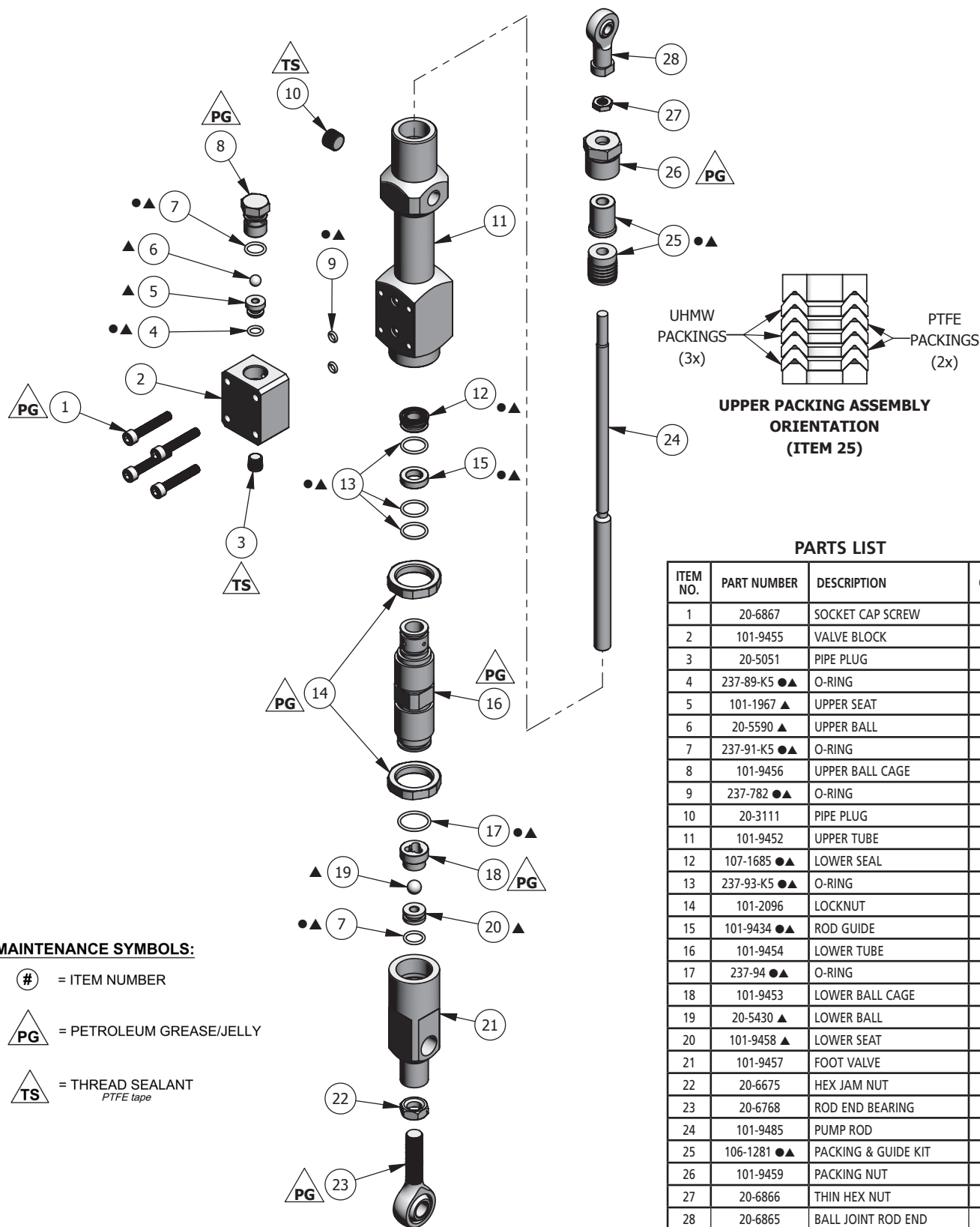
Follow the above precautions in handling.

READ & UNDERSTAND THE SAFETY DATA SHEET FROM MATERIAL SUPPLIER

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| ⚠ CAUTION |
| Before disassembly of products exposed to catalyst, flush thoroughly with water both internally and externally to remove any catalyst residue from product. |

**IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.
 FOR FURTHER SAFETY INFORMATION REGARDING BINKS AND DEVILBISS EQUIPMENT,
 SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).**

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MAINTENANCE SYMBOLS:

= ITEM NUMBER

PG = PETROLEUM GREASE/JELLY

TS = THREAD SEALANT
PTFE tape

PARTS LIST

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|---------------------|------|
| 1 | 20-6867 | SOCKET CAP SCREW | 4 |
| 2 | 101-9455 | VALVE BLOCK | 1 |
| 3 | 20-5051 | PIPE PLUG | 1 |
| 4 | 237-89-K5 ●▲ | O-RING | 1 |
| 5 | 101-1967 ▲ | UPPER SEAT | 1 |
| 6 | 20-5590 ▲ | UPPER BALL | 1 |
| 7 | 237-91-K5 ●▲ | O-RING | 2 |
| 8 | 101-9456 | UPPER BALL CAGE | 1 |
| 9 | 237-782 ●▲ | O-RING | 2 |
| 10 | 20-3111 | PIPE PLUG | 1 |
| 11 | 101-9452 | UPPER TUBE | 1 |
| 12 | 107-1685 ●▲ | LOWER SEAL | 1 |
| 13 | 237-93-K5 ●▲ | O-RING | 3 |
| 14 | 101-2096 | LOCKNUT | 2 |
| 15 | 101-9434 ●▲ | ROD GUIDE | 1 |
| 16 | 101-9454 | LOWER TUBE | 1 |
| 17 | 237-94 ●▲ | O-RING | 1 |
| 18 | 101-9453 | LOWER BALL CAGE | 1 |
| 19 | 20-5430 ▲ | LOWER BALL | 1 |
| 20 | 101-9458 ▲ | LOWER SEAT | 1 |
| 21 | 101-9457 | FOOT VALVE | 1 |
| 22 | 20-6675 | HEX JAM NUT | 1 |
| 23 | 20-6768 | ROD END BEARING | 1 |
| 24 | 101-9485 | PUMP ROD | 1 |
| 25 | 106-1281 ●▲ | PACKING & GUIDE KIT | 1 |
| 26 | 101-9459 | PACKING NUT | 1 |
| 27 | 20-6866 | THIN HEX NUT | 1 |
| 28 | 20-6865 | BALL JOINT ROD END | 1 |

● Item included within Seal Kit 106-1274.

▲ Item included within Repair Kit 106-1275.

CATALYST PUMP TROUBLESHOOTING

| PROBLEM | CAUSE | SOLUTION |
|--|--|---|
| 1. Pump doesn't operate on either stroke; no fluid delivery; no siphoning. | 1a. Pump not sufficiently primed. 1b. Siphon leak. | 1a. Disconnect catalyst hose from gun so there is no back pressure; pump quickly by hand to prime pump. 1b. Check all siphon hose and inlet connections; tighten if necessary. |
| 2. Pressure builds on up stroke but no pressure on down stroke. | 2. Lower ball/seat not seating. | 2. Check for worn, dirty, chipped or cracked ball or seat; replace if necessary. |
| 3. Pressure builds on down stroke but not on up stroke. | 3. Upper ball/seat not seating. | 3. Check for worn, dirty, chipped or cracked ball or seat; replace if necessary. |
| 4. Inconsistent pressure (>200 psi) between up stroke and down stroke. | 4a. Leaky seat or o-ring. 4b. Worn lower packings. 4c. Siphon leak. | 4a. Check integrity of seat, ball, and seat o-ring. Replace if necessary. 4b. Check tightness of lower packings on rod. If there is "slop" between them, the packings need to be replaced. 4c. Check all siphon hose and inlet connections; tighten if necessary. |
| 5. Relief valve relieving; pressure too high. (Internal mix) | 5a. Blockage in gun or catalyst hose. 5b. Resin pressure set too high. 5c. Relief valve set too low. (See Caution) | 5a. Check catalyst hose and gun for obstructions; clean if necessary. 5b. Lower resin pressure. 5c. Set relief valve to a higher cracking pressure. |
| 6. Relief valve relieving; pressure too high. (External mix) | 6a. Blockage in gun or catalyst hose. 6b. Relief valve set too low. (See Caution) | 6a. Check catalyst hose and gun for obstructions; clean if necessary. 6b. Set relief valve to a higher cracking pressure. |
| 7. Catalyst leaks out of upper take-up nut. | 7. Upper packings worn or take-up nut is loose. | 7. Tighten take-up nut 1/8 to 1/4 past finger tight. If catalyst still leaks, replace upper packings. |
| 8. Catalyst leaks through pipe thread connections. | 8a. Joint not sufficiently tight. 8b. Joint threads not wrapped with enough PTFE tape. | 8a. Tighten joint securely; use enough PTFE tape to avoid galling of threads. 8b. Wrap threads with 3 or more layers of PTFE tape and tighten securely. |

NOTE

On resin pumps that are pressure-fed, there will be a noticeable increase in resin pressure on the up stroke, possibly corresponding to a similar increase in the catalyst portion of the system. Always perform a flow check to verify pump performance before inspecting individual components.

⚠ CAUTION

Relief valves are factory pre-set and should not need to be altered. Increasing the cracking pressure of the valves decreases the safety factor of the system, possibly leading to premature wear or failure of components.

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WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

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