

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

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.

WARNING

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

CAUTION

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

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.

FIRST AID

EYES

Wash immediately (seconds count) with water and continue washing for at least 15 minutes. Obtain medical attention.

SKIN

Wash with soap and water. Remove contaminated clothes and shoes and again wash thoroughly with soap and water.

SWALLOWING

Administer large quantities of milk or water. Obtain immediate medical attention for lavage.

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 MATERIAL SAFETY DATA SHEET FROM MATERIAL SUPPLIER

CAUTION

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

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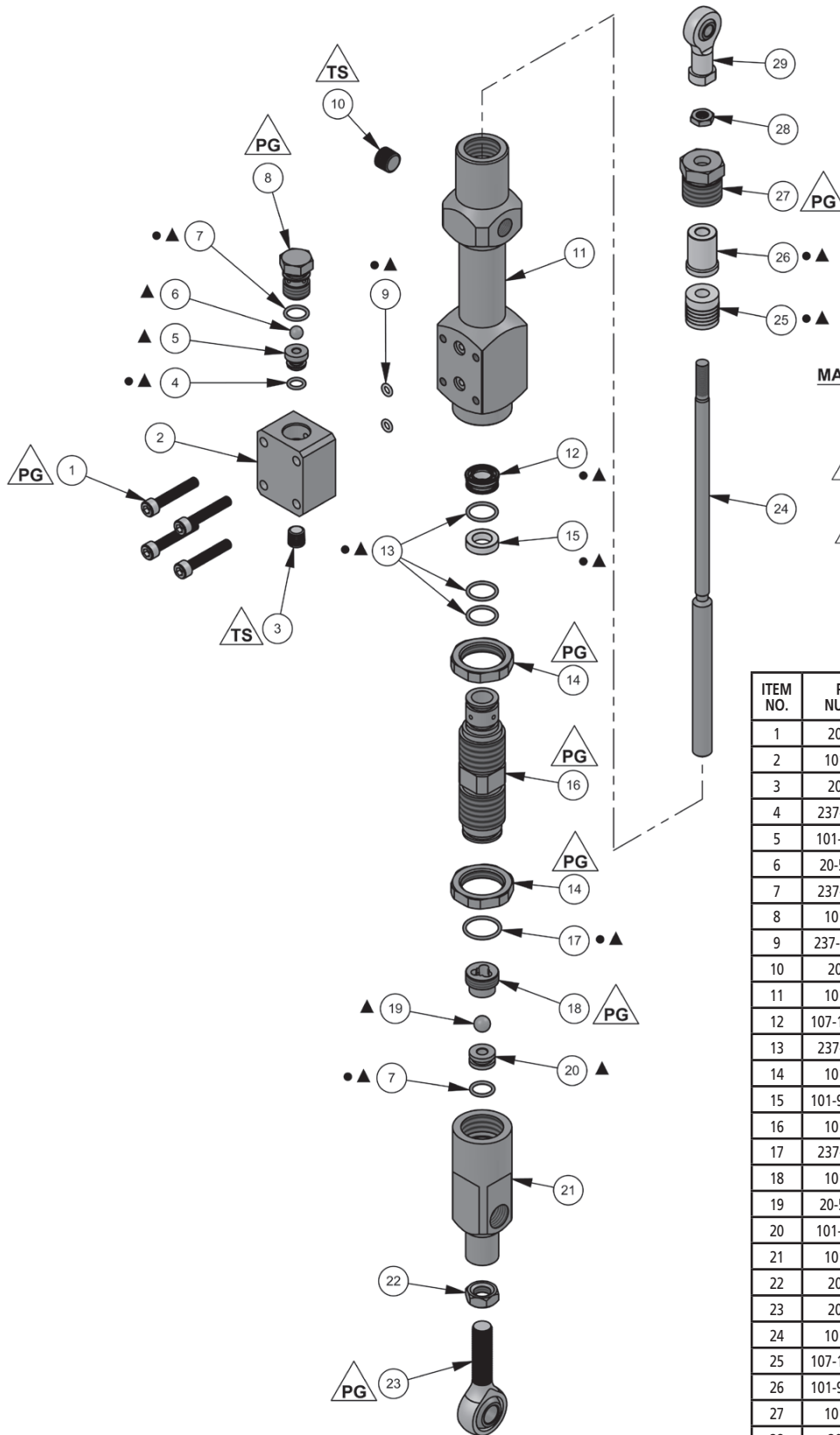
PROP 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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 ●▲	O-RING	1
5	101-1967 ▲	UPPER SEAT	1
6	20-5590 ▲	UPPER BALL	1
7	237-91 ●▲	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 ●▲	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	101-9451	PUMP ROD	1
25	107-1684 ●▲	UPPER PACKING ASSEMBLY	1
26	101-9460 ●▲	BEARING	1
27	101-9459	PACKING NUT	1
28	20-6866	THIN HEX NUT	1
29	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.

WARRANTY

This product is covered by Binks' 1 Year Limited Warranty.

Binks Sales and Service: www.binks.com



U.S.A./Canada Customer Service
Finishing Equipment Americas
195 Internationale Blvd.
Glendale Heights, IL 60139
630-237-5000

Toll Free Customer Service
and Technical Support
800-992-4657
Toll Free Fax
888-246-5732