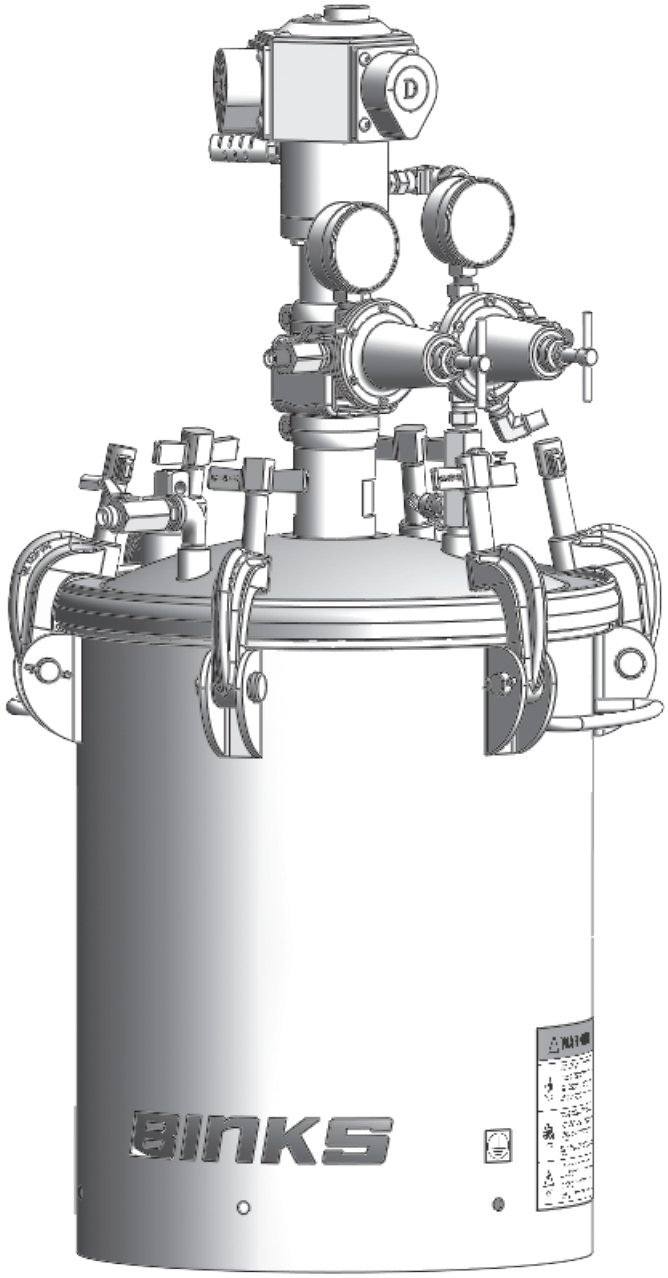
Binks®

SERVICE MANUAL EN

77-3134-R12



Binks

183S (STAINLESS STEEL) 5, 10, AND 15 GALLON ASME TANKS

For additional information or copies of your service manual, please visit us online at:

binks.com/en/library

Or use this QR code with your mobile device:

183S (STAINLESS STEEL) 5, 10, AND 15 GALLON ASME TANKS

Obey local or municipal regulations for product recycling and disposal.

02 CONTENTS

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03 SAFETY

03.1 SAFETY PRECAUTIONS

Before the operation, maintenance, or servicing of this Binks system; fully read and understand all technical and safety literature for your product. This manual contains information that is important for you to know and understand.

This information relates to USER SAFETY and the PREVENTION OF EQUIPMENT PROBLEMS.

To help you understand this information, we use recognizable ANSI Z535 and ISO warning boxes and symbols throughout this manual. Please obey these safety sections.

⚠ DANGER

DANGER!: Indicates a hazardous situation that, if not avoided, will result in death or severe injury.

⚠ WARNING

WARNING!: Indicates a hazardous situation that, if not avoided, could result in death or severe injury.

⚠ CAUTION

Caution!: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury, or equipment damage.

NOTICE

Notice: Indicates information considered important but not hazard related.

SAFETY

Safety: Indicates a type of safety instruction, or a separate panel on a safety placard, where specific safety-related instructions or procedures are described.

Careful study and continued use of this manual will provide a better understanding of the equipment functions and procedures.

This understanding will result in improved operation, efficiency, and longer, trouble-free service with faster and easier troubleshooting. If you need the necessary safety literature for your specific system, contact your local Binks representative or Binks directly.

NOTICE

This manual lists standard specifications and service procedures. Differences can occur between this literature and your equipment.

Differences in local or municipal codes, manufacturer or plant requirements, material delivery requirements, and more can make variations unpreventable. To find these differences, compare this manual to your system installation drawings and other applicable Binks equipment manuals.

⚠ WARNING

The user MUST read and be familiar with the Safety Section in this manual and the safety literature therein identified.

Only trained personnel can operate this equipment.

All personnel who operate, clean, or maintain this equipment MUST fully read and understand this manual! To operate and service the equipment, follow all WARNINGS and safety requirements.

The user must be aware of and adhere to ALL local building and fire codes and ordinances, as well as NFPA 33 AND EN 16985 SAFETY STANDARDS, LATEST EDITION, or applicable country safety standards, before the installation, operation, or servicing of this equipment.

⚠ WARNING

The hazards shown on the pages that follow can occur during the normal use of this Binks equipment, but not all listed hazards will be applicable to your product model or equipment.

Repairs may only be performed by personnel authorized by Binks.

HAZARD	CAUSE	SAFEGUARDS Prevention of possible hazards.
Fire 	Solvents and coatings can be highly combustible, especially when sprayed.	1. Adequate exhaust must be provided to keep air free of accumulations of flammable vapours. 2. Smoking must never be allowed in the spray area. 3. Fire extinguishing equipment must be present in the spray area.
Fire – Pressure Tank 	Vapours from flammable liquids can catch fire or explode.	Keep tank at least 3 metres away from sources of ignition. Ignition sources include hot objects, mechanical sparks, and arcing (non-explosion proof) electrical equipment.
Inhaling Toxic Substances 	Certain materials may be harmful if inhaled, or if there is contact with the skin.	1. Follow the requirements of the Safety Data Sheet supplied by your coating material manufacturer. 2. Adequate exhaust must be provided to keep the air free of accumulations of toxic materials. 3. Use a mask or respirator wherever there is a risk of inhaling sprayed materials. The mask must be suitable for the material being sprayed.
Explosion, Pressure Tank – Rupture 	Making any changes or modification to the pressure tank may weaken it.	1. Never drill into, weld or modify the tank in any way. 2. Do not adjust, remove or tamper with the safety valve. 3. Only replace the safety valve with the correct spare part as listed. 4. Do not fit any other safety valve of a higher pressure rating than the maximum working pressure of the tank.

HAZARD	CAUSE	SAFEGUARDS Prevention of possible hazards.
General Safety	Improper operation or maintenance may create a hazard.	Operators should be given adequate training in the safe use and maintenance of this equipment. Refer to Pressure Systems Safety Regulations 2000 Approved Code of Practice.

03.2 ADDITIONAL SAFETY INFORMATION

Observe all local or municipal safety measures and wear approved protective equipment when servicing this equipment. Clean all spilled chemicals and materials and do all work in a clean and organized environment to prevent personal injury and equipment damage.

04 PRODUCT OVERVIEW

183S (STAINLESS STEEL)
5, 10, AND 15 GALLON ASME TANKS

Binks pressure feed tanks are intended for use as a pressure container to supply material at a constant preset pressure up to a maximum of 110 psi. The tanks are built to ASME specifications, and also certified for vacuum operation.

STAINLESS STEEL 5-GALLON MODELS		
TANK MODEL	**REGULATION**	**AGITATION**
183S-500	None	None
183S-510	Single (Regulated air to tank only)	None
183S-513	Single (Regulated air to tank only)	Gear-reduced (Heavy-duty)
183S-514	Single (Regulated air to tank only)	Direct Drive (Heavy-duty)
183S-520	Double (Regulated air to tank and gun)	None
183S-523	Double (Regulated air to tank and gun)	Gear-reduced (Heavy-duty)
183S-524	Double (Regulated air to tank and gun)	Direct Drive (Heavy-duty)
183S-530	Extra Sensitive	None
183S-533	Extra Sensitive	Gear-reduced (Heavy-duty)
183S-534	Extra Sensitive	Direct Drive (Heavy-duty)
183S-540	Extra Sensitive w/ gun regulation	None
183S-543	Extra Sensitive w/ gun regulation	Gear-reduced (Heavy-duty)
183S-544	Extra Sensitive w/ gun regulation	Direct Drive (Heavy-duty)

STAINLESS STEEL 10-GALLON MODELS		
TANK MODEL	**REGULATION**	**AGITATION**
183S-1000	None	None
183S-1010	Single (Regulated air to tank only)	None
183S-1013	Single (Regulated air to tank only)	Gear-reduced (Heavy-duty)
183S-1014	Single (Regulated air to tank only)	Direct Drive (Heavy-duty)
183S-1020	Double (Regulated air to tank and gun)	None
183S-1023	Double (Regulated air to tank and gun)	Gear-reduced (Heavy-duty)
183S-1024	Double (Regulated air to tank and gun)	Direct Drive (Heavy-duty)
183S-1030	Extra Sensitive (Single)	None
183S-1033	Extra Sensitive (Single)	Gear-reduced (Heavy-duty)
183S-1034	Extra Sensitive (Single)	Direct Drive (Heavy-duty)
183S-1040	Extra Sensitive w/ gun regulation	None
183S-1043	Extra Sensitive w/ gun regulation	Gear-reduced (Heavy-duty)
183S-1044	Extra Sensitive w/ gun regulation	Direct Drive (Heavy-duty)

STAINLESS STEEL 15-GALLON MODELS		
TANK MODEL	**REGULATION**	**AGITATION**
183S-1500	None	None
183S-1510	Single (Regulated air to tank only)	None
183S-1513	Single (Regulated air to tank only)	Gear-reduced (Heavy-duty)
183S-1514	Single (Regulated air to tank only)	Direct Drive (Heavy-duty)
183S-1520	Double (Regulated air to tank and gun)	None
183S-1523	Double (Regulated air to tank and gun)	Gear-reduced (Heavy-duty)
183S-1524	Double (Regulated air to tank and gun)	Direct Drive (Heavy-duty)
183S-1530	Extra Sensitive (Single)	None
183S-1533	Extra Sensitive (Single)	Gear-reduced (Heavy-duty)
183S-1534	Extra Sensitive (Single)	Direct Drive (Heavy-duty)
183S-1540	Extra Sensitive w/ gun regulation	None
183S-1543	Extra Sensitive w/ gun regulation	Gear-reduced (Heavy-duty)
183S-1544	Extra Sensitive w/ gun regulation	Direct Drive (Heavy-duty)

04.1 SPECIFICATIONS

Maximum Working Pressure	110 psi
Tank Shell	304 Stainless Steel
Tank Lid	304 Stainless Steel
Fluid Tube	3/8 in. SS Pipe, 316 Stainless Steel
Fluid Outlet (Elbow)	S316 Stainless Steel
Fluid Valve, Outlet	316 Stainless Steel 3/8-18 NPS(M)
Agitator Paddle/Propeller	Nylon, Glass Filled
Agitator Shaft	303 Stainless Steel
Agitator Shaft Seal	Engineered PTFE, Stainless Steel
Air Manifold	Steel, Zinc Plate
Plug (Air Manifold Coupling)	18-8 Stainless Steel

TANK CAPACITIES	
NOMINAL CAPACITY	**ACTUAL CAPACITY**
5 US Gallons	9.8 US Gallons
10 US Gallons	11.8 US Gallons
15 US Gallons	19.8 US Gallons

04.2 PREPARATION

⚠ WARNING

High pressure can cause serious injury.
Pressure is maintained in a pressure tank after the system has been shut down.
Follow PRESSURE RELIEF PROCEDURE as presented in this manual before opening the lid or fill port or performing maintenance on the tank.

Mix and prepare material to be used according to manufacturer's instructions. Strain material through a fine mesh screen to remove lumps, skin, and foreign matter that might enter and clog fluid passages and/or spray equipment.

Follow PRESSURE RELIEF PROCEDURE as presented in this manual.

To add material to the tank, remove the lid and pour directly into the tank or container.

If desired, a U.S. or metric 1 gallon pail of fluid can be placed directly into the tank.

Replace the lid assembly and tighten thumb screws (17) securely.

NOTICE

Tighten down C-clamps to 11 – 13.6 Nm (8-10 ft-lbs) or turn thumb screws approximately ½ to 1 turn past hand tight in a cross pattern.

The air supply to the tank should include a filter/water separator to filter dirt from the air and remove water and oil.

Connect the material hose to the fluid outlet ball valve (8).

04.3 OPERATION

1. Close the air inlet valve to tank. Turn handle on regulator counterclockwise until spring tension is relieved.
2. Turn on air supply to the tank.
3. Open the air inlet valve to the tank.
4. Open the fluid outlet valve.
5. Turn handle on tank pressure regulator clockwise to pressurize tank.
6. Turn on atomization air to spray gun at source of supply.
7. Test spray. For further instructions consult literature provided with spray gun.
8. If an air motor driven agitator is used, start the agitator by slowly opening up the needle valve. Air motor speed should be regulated according to the nature of the material being agitated.

04.4 MAINTENANCE

To clean equipment, proceed as follows:

1. Turn off the air supply.
2. Follow the pressure relief procedure.
3. Turn T-handle adjusting screw on tank fluid pressure regulator counterclockwise until no spring pressure is felt.
4. Loosen thumb screws (17), tip clamps (16) back and tip lid (11) to one side of tank. Do not remove lid from tank.
5. Loosen spray gun air cap retaining ring about three turns.
6. Turn on air supply.
7. Cup cloth over air cap on the gun and pull trigger. This will force material back through the hose into the tank.
8. Empty and clean tank and parts that come into contact with material. Use a solvent compatible with material being used.
9. Pour solvent into tank.
10. Replace lid and tighten thumb screws and clamps.

NOTICE

Tighten down C-clamps to 11 – 13.6 Nm (8-10 ft-lbs) or turn thumb screws approximately ½ to 1 turn past hand tight in a cross pattern.

11. Spray until clean solvent appears.
12. Repeat steps 4 through 8.

04.5 LUBRICATION – AGITATED MODELS

Refer to the service manual provided with the air motor for lubrication information.

The bearings in the agitator bearing assembly are impregnated with special non-gumming oil. Additional lubrication is not required.

The agitator shaft seal does not require lubrication.

04.6 PRESSURE RELIEF PROCEDURE

⚠ WARNING

High pressure can cause serious injury.
Pressure is maintained in a pressure tank after the system has been shut down.
Always follow this procedure to relieve pressure from the tank.

TO REDUCE THE RISK OF INJURY, FOLLOW THE PRESSURE RELIEF PROCEDURE BELOW		
BEFORE CHECKING OR SERVICING ANY PART OF THE SPRAY SYSTEM	**BEFORE ATTEMPTING REMOVAL OF FILL PORT CAP OR TANK COVER**	**WHENEVER THE TANK IS LEFT UNATTENDED**
1. Turn off the main air supply to the tank.		
2. Close the air inlet valve located on the tank air manifold.		
3. Bleed off air in the tank by turning the air relief valve thumb screw counterclockwise. Wait until all the air has escaped through the valve before removing the pressure tank cover or fill port cap.		
4. Leave the air relief valve open until you have reinstalled the tank cover or fill port cap.		

04.7 PRESSURE FEED TANK SAFEGUARDS

THE FOLLOWING HAZARDS MAY OCCUR DURING THE NORMAL USE OF THIS EQUIPMENT. PLEASE READ THE FOLLOWING CHART.

HAZARD	CAUSE	SAFEGUARDS
Fire 	Solvents and coatings can be highly flammable or combustible, especially when sprayed.	1. Adequate exhaust must be provided to keep the air free of accumulations of flammable vapors. 2. Smoking must never be allowed in the spray area. 3. Fire extinguishing equipment must be present in the spray area.
Fire – Pressure tank 	Vapors from flammable liquids can catch fire or explode.	Keep tank at least 10 feet away from sources of ignition. Ignition sources include hot objects, mechanical sparks, and arcing (non -explosion proof) electrical equipment.
Explosion Hazard – Pressure Tank – Static Electricity 	Static electricity is created by the flow of fluid through the pressure tank and hose. If all parts are not properly grounded, sparking may occur. Sparks can ignite vapors from solvents and the fluid being sprayed.	1. Ground the pressure tank by connecting one end of 12 gauge (minimum) ground wire to the pressure tank and the other end to a true earth ground. Local codes may have additional grounding requirements. 2. See illustration inset in exploded view for grounding and grounding hardware required.
Explosion Hazard – Pressure Tank – Rupture 	Making changes to a pressure tank will weaken it.	1. Never drill into, weld, or modify the tank in any way. 2. Do not adjust, remove, or tamper with the safety valve. If replacement is necessary, use the same type and rating of valve.
Explosion Hazard – Galvanized Tanks – Material Compatibility 	Halogenated hydrocarbon solvents – for example 1-1-1 Trichloroethane and methylene chloride – can chemically react with aluminum parts and components and cause an explosion hazard. These solvents will also corrode the galvanized tank coating.	1. Read the label or data sheet for the material. Do not use materials containing these solvents with galvanized pressure tanks. Stainless steel tank models may be used with halogenated solvents. 2. Refer to specifications chart to ensure that fluids are chemically compatible with the tank wetted parts. Before placing fluids or solvents in tank, always read accompanying manufacturer's literature.
General Safety 	Improper operation or maintenance may create a hazard.	Operators should be given adequate training in the safe use and maintenance of the equipment (in accordance with the requirements of NFPA-33, Chapter 15 in U.S.) Users must comply with all local and national codes governing ventilation, fire precautions, operation, maintenance, and housekeeping (in the U.S., these are OSHA sections 1910.94 and 1910.107, and NFPA-33.

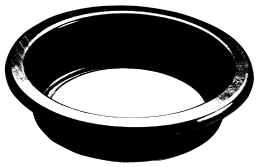
04.8 OPTIONS

AIR CONTROL OPTIONS	
TYPE	**APPLICATION**
No Regulation (Air inlet pressure gauge only)	Holding tanks, Transfer tanks, Used where precision fluid pressure control is not required.
Standard Single Regulation	Provides standard fluid pressure control only. For use where precision control of both fluid and air pressures is not required. Also Used where atomization air can be taken from filter/regulator air lines.
Standard Double Regulation	Precision control for use with materials that are best applied at low, closely controlled, fluid and atomization air pressures. Used with portable air compressors or with air lines when no other means of air pressure regulation is available.
Extra Sensitive Regulation	Provides extremely accurate, low pressure, fluid pressure control
Extra Sensitive Regulation with Standard Gun Regulation	Provides extremely accurate, low pressure, fluid pressure control plus precision control of spray gun atomizing air.

AGITATION OPTIONS	
TYPE	**APPLICATION**
No Agitation	Materials that require minimal or no mixing and/or readily hold any solids in suspension.
Gear-reduced Drive Agitation	Materials that require minimal or no mixing and/or readily hold any solids in suspension.
Direct Drive Agitation	Heavy-duty agitator for medium to high viscosity materials that require mixing and/or solids suspension.

04.9 ACCESSORIES

PROSPECTOR™ PRESSURE TANK STRAINERS FOR 5, 10, AND 15 GALLON TANKS



Prospector™ strainers are an economical way to remove foreign material from paint, stain, lacquer and coatings.

Inner Diameter	11.75" (298.45mm)
Outer Diameter	15.375" (390.52mm)
Height/Depth	3.75" (95.25mm)
Case Qty	20

ORDER NUMBER	DESCRIPTION
PTS-5Gal-K20-200	200 micron (approx. 65 wire mesh)
PTS-5Gal-K20-400	400 micron (approx. 37 wire mesh)
PTS-5Gal-K20-600	600 micron (approx. 28 wire mesh)

DISPOSABLE TANK LINERS

Single use molded polyethylene tank liners reduce solvent waste and tank cleanup time. The liner is made of tough, durable, leakproof polyethylene and can be used with all compatible materials.

ORDER NUMBER	DESCRIPTION
PTL-408-K20	Kit of 20 tank liners (9.8 gal.)
PTL-412-K8	Kit of 8 tank liners (11.8 gal.)
PTL-415-K10	Kit of 10 liners (19.8 gal.)

For additional accessory components including other fluid filter options, fluid strainer options, clean air units, and hand cleaner towels please visit binks.com.

04.10 5/10/15-GALLON STAINLESS STEEL TANK ASSEMBLIES

NOTICE

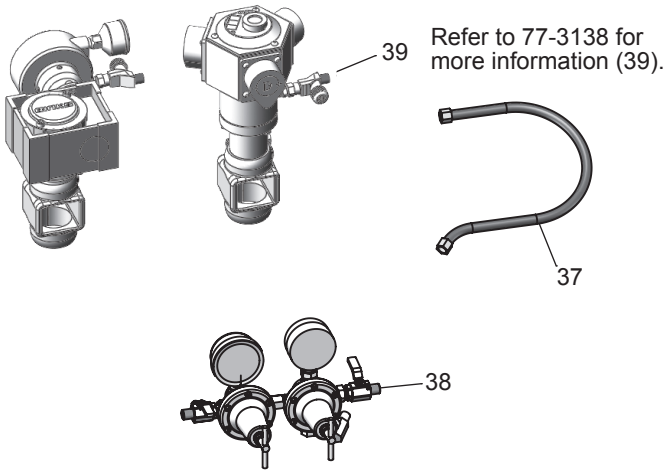
Open side of the shaft seal (8) faces downward. Retainer (9) required only for vacuum operation.

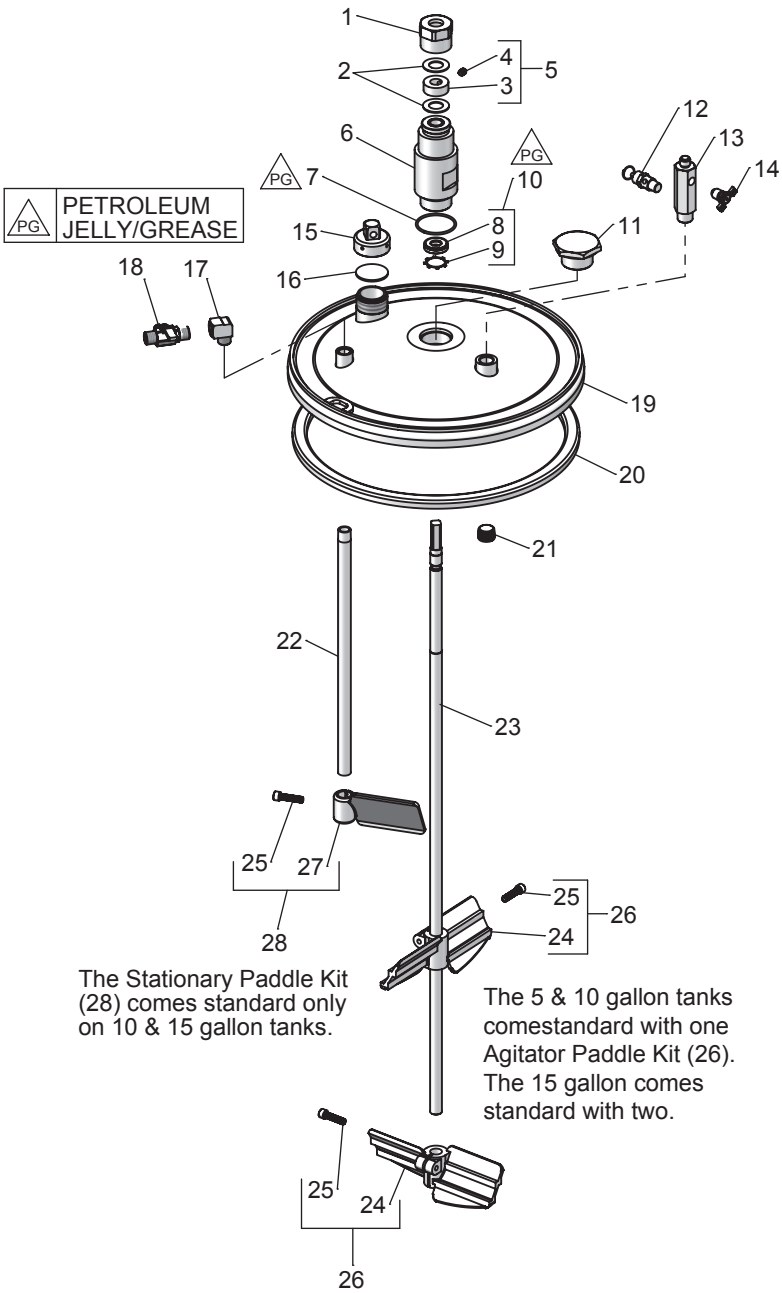
NOTICE

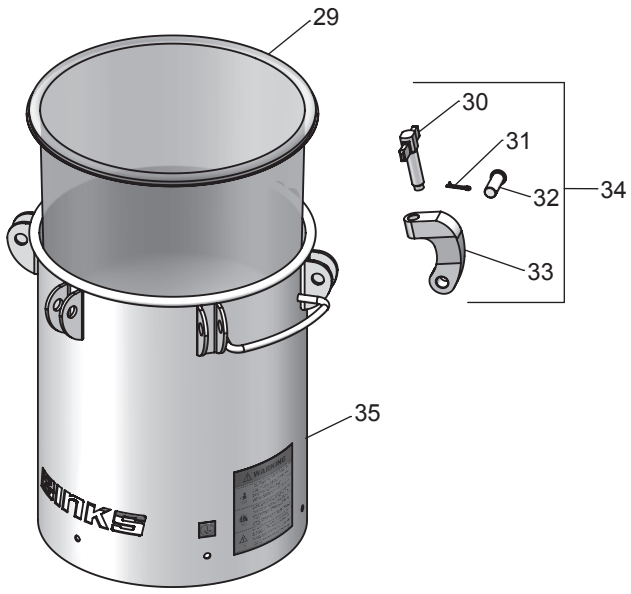
Use PTFE based thread sealant on all air and fluid connections.

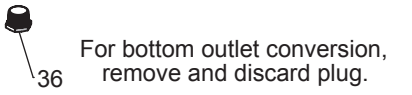
⚠ CAUTION

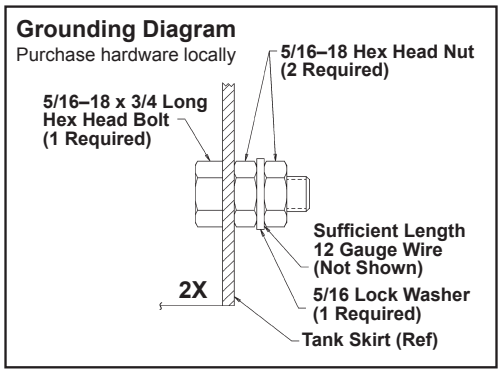
Use 40 PSI Safety Valve (12A) with an extra sensitive regulator.











PARTS LIST

ITEM NO.		PART NO.	DESCRIPTION	5-GAL QTY.	10-GAL QTY.	15-GAL QTY.
1	▲	QMS-46	RETAINING NUT	1	1	1
2	▲	QMG-85	THRUST WASHER	2	2	2
3	▲	-----	THRUST COLLAR	1	1	1
4	▲•	-----	SET SCREW (5/16-18 X 3/8)	1	1	1
5		QMS-447	THRUST COLLAR KIT (INCL 4 & 5)	1	1	1
6	▲	QMS-407	BEARING ASSY-PLAIN STEEL	1	1	1
7	▲	SSG-8184-K2	O-RING (KIT OF 2)	1	1	1
8	▲	-----	SHAFT SEAL 5/8 I.D.	1	1	1
9	▲	-----	INTERNAL RETAINING RING	1	1	1
10		KK-5042	SHAFT SEAL KIT (INCL 8 & 9)	1	1	1
11		QMS-3	PLUG (NON-AGITATED MODELS ONLY) 1-1/4 NPS	1	1	1
12		TIA-4110	SAFETY VALVE ASSY, 110 PSI	1	1	1
12A		TIA-5040	SAFETY VALVE ASSY, 40 PSI (EXTRA SENSITIVE ONLY)			
13		QMG-21	AIR MANIFOLD 1/2 NPT	1	1	1
14		SS-2707	AIR RELIEF VALVE 1/4 NPT(M)	1	1	1
15		83-524	FILL PORT CAP	1	1	1
16		83-1207	FILL PORT CAP GASKET 1-1/4 NPS	1	1	1
17		SSP-1939	STREET ELBOW, 3/8-18 NPT, S.S. 3/8 NPT	1	1	1
18		VA-527	BALL VALVE, 3/8 NPS OUTLET, S.S.	1	1	1
19		QMS-417-1	TANK LID	1	1	1
20		QM-1458-1	TANK GASKET	1	1	1
21	•	-----	PLUG, 1/2-14 NPT, S.S.	1	1	1
22		QMS-10-1	FLUID TUBE	1	—	—
22		QMS-11-1	FLUID TUBE	—	1	—
22		QMS-12-1	FLUID TUBE	—	—	1
23	▲	QMS-6	AGITATOR SHAFT	1	—	—
23	▲	QMS-7	AGITATOR SHAFT	—	1	—
23	▲	QMS-8	AGITATOR SHAFT	—	—	1
24	▲	-----	AGITATOR PADDLE	1	1	2
25	▲•	-----	SOC HEAD CAP SCREW, 5/16-18 X 1-1/4, S.S.	1	2	3
26		QMS-444-CE	AGITATOR PADDLE KIT (INCL 24 & 25)	1	1	2
27	▲	-----	STATIONARY PADDLE	—	1	1
28		QMS-445-CE	STATIONARY PADDLE KIT (INCL 25 & 27)	—	1	1
29		PTL-408-K20	DISPOSABLE TANK LINER, 5-GAL	1	—	—
29		PTL-412-K8	DISPOSABLE TANK LINER, 10-GAL	—	1	—
29		PTL-415-K10	DISPOSABLE TANK LINER, 15-GAL	—	—	1
30		QM-1352	THUMB SCREW (SEE ITEM 34)	6	6	6
31	•	-----	COTTER PIN, 1/8 DIA. X 1" LG. (SEE ITEM 34)	6	6	6
32		-----	CLEVIS PIN (SEE ITEM 34)	6	6	6
33		-----	CLAMP (SEE ITEM 34)	6	6	6
34	+	KK-5014	CLAMP, PIN, & SCREW KIT	6	6	6
35		QMS-505-1	TANK & LUG ASSY, 5-GAL	1	—	—
35		QMS-510-1	TANK & LUG ASSY, 10-GAL	—	1	—
35		QMS-515-1	TANK & LUG ASSY, 15-GAL	—	—	1
36		-----	BOTTOM PLUG 3/4 NPT	1	1	1
37		HA-57011	AIR HOSE ASS'Y (INCL W/ ITEM 38)	1	1	1
38		SEE PAGES 8 & 9	AIR CONTROL	1	1	1
39		31-452	AIR MOTOR/GEARBOX DRIVE - 183S-XXX3	1	1	1
39		31-502	AIR MOTOR/GEARBOX DRIVE - 183S-XXX4	1	1	1

• Purchase locally.

+ KK-5014 Clamp, Pin, and Screw Kit includes 1 each of items 30, 31, 32, and 33.

▲ Items available separately or as a complete agitator assembly.
QMS-432 (for 5 gallon tanks) QMS-433 (for 10 gallon tanks)
QMS-434 (for 15 gallon tanks)

04.11 AIR CONTROLS

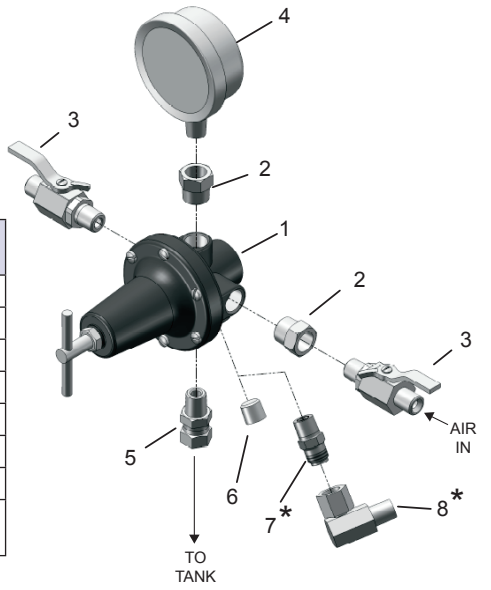
SINGLE REGULATOR AIR CONTROL

Control tank pressure only.

85-470 for non-agitated tanks
85-471 for agitated tanks

ITEM NO.		PART NO.	DESCRIPTION	85-470	85-471
1	+	HAR-511	AIR REGULATOR	1	1
2	•	---------	BUSHING-STL-PLTD – 3/8 (m) x 1/4 (f)	2	2
3		VA-542	BALL VALVE	2	2
4		83-1290	GAUGE – 150 PSI	1	1
5		SSP-8217-ZN	SWIVEL ADAPTER	1	1
6	•	---------	1/4 NPT PLUG (SUPPLIED W/ REGULATOR)	1	—
7		H-2008	NIPPLE 1/4 NPS x 1/4 NPT	—	1
8		SSP-30-ZN	SWIVEL ELBOW – 1/4 NPS(m) x 1/4 NPS (sw)	—	1

• Purchase locally
+ Refer to 77-2781 for regulator service parts, Repair kit: KK-4977



*Items with an asterisk are for use with an agitator.

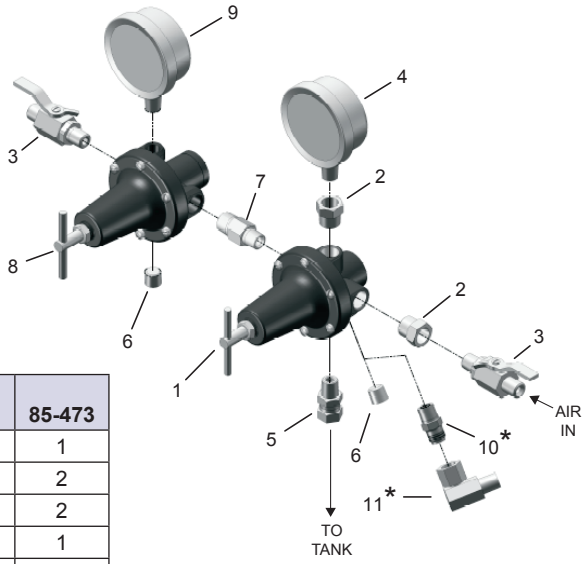
DOUBLE REGULATOR AIR CONTROL

Control tank pressure and spray gun atomization pressure.

85-472 for non-agitated tanks
85-473 for agitated tanks

ITEM NO.		PART NO.	DESCRIPTION	85-472	85-473
1	+	HAR-511	AIR REGULATOR	1	1
2	•	---------	BUSHING-STL-PLTD – 3/8 (m) x 1/4 (f)	2	2
3		VA-542	BALL VALVE	2	2
4		83-1290	GAUGE - 150 PSI	1	1
5		SSP-8217-ZN	SWIVEL ADAPTER	1	1
6	•	---------	1/4 NPT PLUG (SUPPLIED W/ REGULATOR)	2	1
7		83-4233	D.M. NIPPLE 1/4 x 3/8	1	1
8	#	HAR-507	AIR REGULATOR	1	1
9		83-1355	GAUGE - 100 PSI	1	1
10		H-2008	NIPPLE 1/4 NPS x 1/4 NPT	—	1
11		SSP-30-ZN	SWIVEL ELBOW – 1/4 NPS(m) x 1/4 NPS (sw)	—	1

• Purchase locally
+ Refer to 77-2781 for regulator service parts, Repair kit: KK-4977
# Refer to SB-6-147 for regulator service parts, Repair kit: KK-4977



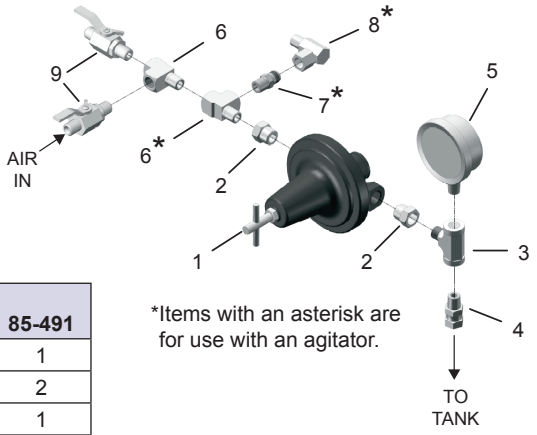
*Items with an asterisk are for use with an agitator.

04.12 EXTRA SENSITIVE AIR CONTROLS

EXTRA SENSITIVE REGULATOR AIR CONTROL SINGLE REGULATOR

Provides extremely high precision control of tank pressure (only) from 0 – 30 PSI. Includes 40 PSI Safety Valve (not shown.)

85-490 for non-agitated tanks
85-491 for agitated tanks



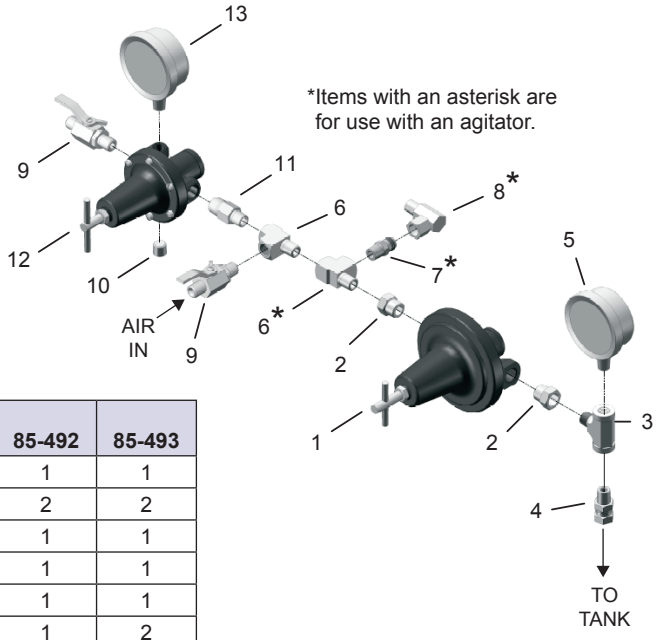
ITEM NO.		PART NO.	DESCRIPTION	85-490	85-491
1	+	HAR-501	EXTRA-SENSITIVE REGULATOR	1	1
2	•	---------	BUSHING-STL-PLTD – 3/8 (m) x 1/4 (f)	2	2
3		SSP-2629-ZN	MALE BRANCH TEE – 1/4NPT	1	1
4		SSP-8217-ZN	SWIVEL ADAPTER	1	1
5		83-1414	GAUGE - 30 PSI	1	1
6	•	---------	1/4 NPT STREET TEE	1	2
7		H-2008	NIPPLE – 1/4 NPS x 1/4 NPT	—	1
8		SSP-30-ZN	SWIVEL ELBOW – 1/4 NPS(m) x 1/4 NPS (sw)	—	1
9		VA-542	BALL VALVE	2	2
10		TIA-5040	SAFETY VALVE, 40 PSI (NOT SHOWN)	1	1

• Purchase locally
+ Refer to SB-6-131 for regulator service parts, Repair kit: KK-4200

EXTRA SENSITIVE REGULATOR AIR CONTROL DOUBLE REGULATOR

Provides extremely high precision control of tank pressure plus standard regulation for a spray gun. Includes 40 PSI Safety Valve (Not shown.)

85-492 for non-agitated tanks
85-493 for agitated tanks



ITEM NO.		PART NO.	DESCRIPTION	85-492	85-493
1	+	HAR-501	EXTRA-SENSITIVE REGULATOR	1	1
2	•	---------	BUSHING-STL-PLTD – 3/8 (m) x 1/4 (f)	2	2
3		SSP-2629-ZN	MALE BRANCH TEE – 1/4NPT	1	1
4		SSP-8217-ZN	SWIVEL ADAPTER	1	1
5		83-1414	GAUGE - 30 PSI	1	1
6	•	---------	1/4 NPT STREET TEE	1	2
7		H-2008	NIPPLE – 1/4 NPS x 1/4 NPT	—	1
8		SSP-30-ZN	SWIVEL ELBOW – 1/4 NPS(m) x 1/4 NPS (sw)	—	1
9		VA-542	BALL VALVE	2	2
10	•	---------	1/4 NPT PLUG (SUPPLIED W/ REGULATOR)	2	2
11		83-4233	D.M. NIPPLE 1/4 x 3/8	1	1
12	#	HAR-507	AIR REGULATOR	1	1
13		83-1355	GAUGE – 100 PSI	1	1
14		TIA-5040	SAFETY VALVE, 40 PSI (NOT SHOWN)	1	1

• Purchase locally
+ Refer to SB-6-131 for regulator service parts, Repair kit: KK-4200
# Refer to SB-6-147 for regulator service parts, Repair kit: KK-4977

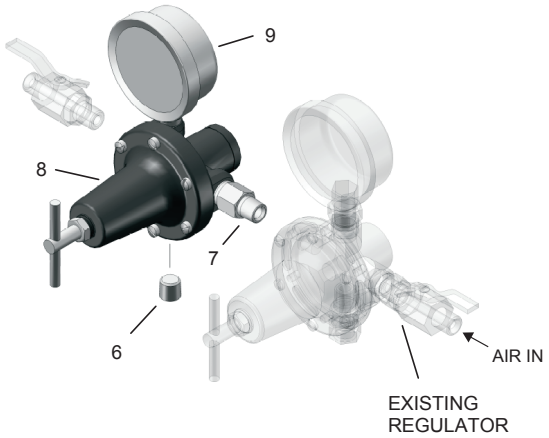
04.13 CONVERSION TO DOUBLE REGULATOR ASSEMBLY KIT (85-469)

Convert standard single regulator or extra-sensitive air control to a double regulator air control.

ITEM NO.		PART NO.	DESCRIPTION	QTY.
6	•	—	1/4 NPT PLUG (SUPPLIED W/ REGULATOR)	1
7		83-4233	D.M. NIPPLE 1/4 x 3/8	1
8	+	HAR-507	AIR REGULATOR	1
9		83-1355	GAUGE – 100 PSI	1

•Purchase locally

+Refer to SBBI-6-147 for regulator service parts, Repair kit: KK-4977

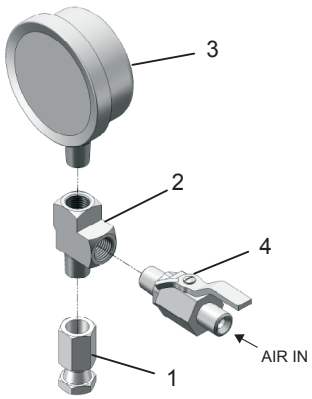


04.14 NO REGULATION KIT (QMS-4003)

Use when fluid pressure in tank is regulated by some other, separate, method of control.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	• —	ADAPTER, 1/4 NPT(F) X 1/4 NPS (SW)	1
2	• —	STREET TEE	1
3	83-1290	GAUGE, 150 PSI	1
4	VA-542	BALL VALVE	1

•Purchase locally



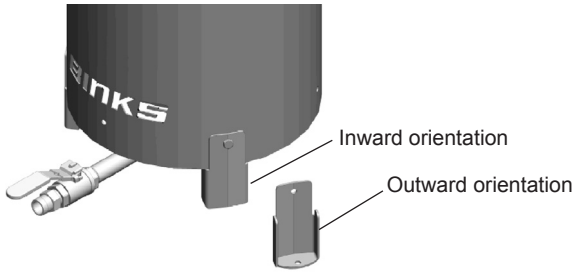
04.15 BOTTOM OUTLET KIT (183-3001)

BOTTOM OUTLET KIT WITH LEGS

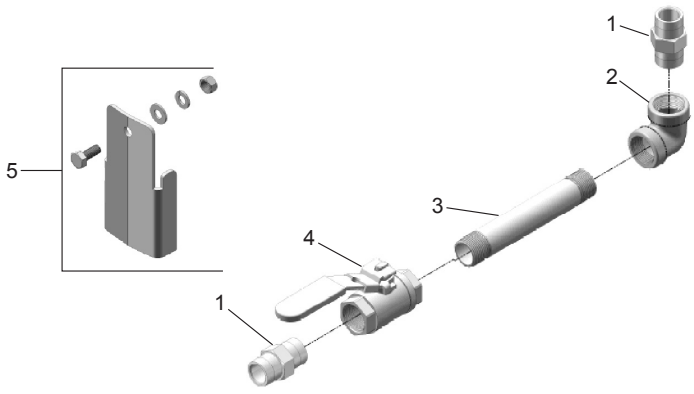
Allows conversion of tank from standard top outlet to bottom outlet. All bottom outlet wetted parts are stainless steel.

183-3001 for 5/10/15 gallon tanks with ¾" bottom outlets. Includes three 183-3005 Leg Kits.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	—	ADAPTER, 3/4 NPT-NPS UNIVERSAL	2
2	—	ELBOW, 3/4 NPT (F)	1
3	—	PIPE NIPPLE	1
4	—	BALL VALVE, 3/4 NPT FULL PORT	1
5	183-3005	LEG KIT	3



Legs can be oriented either inward or outward to provide flexibility in mounting.



CONDITION	CAUSE	CORRECTION
Air escaping from port on regulator cap.	Broken or damaged diaphragm	Replace diaphragm.
Pressure creepage registered on gauge.	Dirty or worn valve seat in regulator.	Clean or replace valve seat.
Material tends to settle out rapidly.	Not enough agitation of material.	Increase agitation.
Air leakage at agitator seal.	Defective seal assembly.	Replace.
Paint getting into bearing assembly of agitator.	1. Paint level in tank too high. 2. Defective agitator shaft seal.	1. Keep fluid level under bearing assembly. 2. Replace.
Fluid or air leak at lid gasket.	1. Thumb screw not tight. 2. Defective lid gasket.	1. Tighten. 2. Replace.
Fluid or air leak at fill port gasket.	1. Fill port cap not tight. 2. Defective fill port gasket.	1. Tighten. 2. Replace.
Air mixing with paint	1. Fluid tube not sealed to lid. 2. Excessive agitation.	1. Tighten fluid tube into lid. 2. Reduce speed of agitator.

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MANUAL CHANGE SUMMARY		
Date	Description	Version
08/15/2025	Revised Safety section	R12
07/10/2025	Rebranded to Binks	R11

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WARRANTY POLICY

This product is covered by Binks' materials and workmanship limited warranty.

The use of parts or accessories from sources other than Binks will void all warranties. Failure to follow reasonable maintenance guidance provided can invalidate the warranty.

For specific warranty information, please contact Binks.

For technical assistance or to locate an authorized distributor, contact one of our international sales and customer support locations listed below.

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WARRANTY PAGE

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