OPERATOR'S MANUAL 845020

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

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REVISED: 3-24-00
(REV. B)

FLUID REGULATOR

READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR SERVICING THIS EQUIPMENT.

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

SERVICE KITS

Use only genuine Bink's replacement parts to assure compatible pressure rating.

REGULATOR DATA

Models 845020
Regulator Type . . . . . Standard capacity, downstream type
Material . . . . . Stainless Steel
Maximum Inlet Pressure . . . . . 750 p.s.i. (51.7 bar)
Maximum Outlet Pressure . . . . . 30 p.s.i. (2.1 bar)
Inlet / Outlet Port Size . . . . . 1/4 - 18 N.P.T.F. - 1 (female)

OPERATION

To adjust back pressure, turn the (1) set screw clockwise with (17) allen wrench, which is furnished with unit. To decrease pressure, turn the (1) set screw counterclockwise.

SERVICE HINTS

- If the outlet pressure rises or creeps, check (12) seat assembly and (14) ball for foreign material. If (12) seat assembly and (14) ball appear to be worn or eroded, they should be replaced (see figure 2, page 3).
- If material is leaking through bleed hole in (4) housing and nut assembly, replace (9 and 10) diaphragms.

845020 FLUID REGULATOR

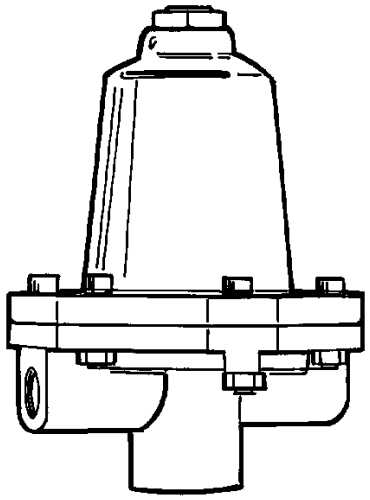

FIGURE 1

BINKS®

North American Office
ITW Industrial Finishing
195 Internationale Blvd
Glendale Heights, IL 60139
Tel. 630-237-5000 Fax 630-237-5011

International Office
ITW Industrial Finishing
Ringwood Road, Bournemouth
Dorset, BH11 9LH, England
Tel. 0 1202 571111 Fax 0 1202 593883

OPERATING AND SAFETY PRECAUTIONS

READ, UNDERSTAND, AND FOLLOW THIS INFORMATION TO AVOID INJURY AND PROPERTY DAMAGE.

- **Read and heed all Warnings, Cautions, and Safety Precautions before operating this pump.**
- **Use only genuine Bink's replacement parts to assure compatible pressure rating and longest service life.**

⚠WARNING MISAPPLICATION HAZARD. DO NOT USE A REGULATOR WHERE THE FLUID INLET PRESSURE IS TOO HIGH FOR THE DESIGNED OPERATING RANGE.

⚠WARNING HIGH PRESSURE DEVICE. IMPROPER USAGE OF THIS EQUIPMENT COULD RESULT IN SERIOUS INJURY. The possibility of injection into the flesh is a potential hazard. Wear approved safety glasses or face shield and any other equipment as needed to prevent injury. Never allow any part of the human body to come in front of or in direct contact with the material outlet, the tip or the material outlet of the dispensing device. An injection injury can be serious. If an injection accident should occur, it is very important that you contact a qualified physician for immediate treatment.

⚠WARNING COMPONENT RUPTURE. DO NOT OPERATE REGULATOR AT AN INLET PRESSURE GREATER THAN SPECIFIED. To avoid possible damage or personal injury, DO NOT operate this unit at pressure higher than the stated operating range as appears on the model plate.

⚠WARNING HAZARDOUS AIR PRESSURE. CAN RESULT IN SERIOUS INJURY. DO NOT SERVICE OR CLEAN PUMP, HOSES OR DISPENSING VALVE WHILE THE SYSTEM IS PRESSURIZED. First disconnect air line, then relieve pressure from the system by opening dispensing valve or device and / or carefully and slowly loosening and removing outlet hose or piping from pump.

⚠WARNING DISASSEMBLY HAZARD. DO NOT DISASSEMBLE THIS REGULATOR WHEN IT IS UNDER PRESSURE. RELIEVE ALL MATERIAL PRESSURE IN THE PUMPING SYSTEM BEFORE ATTEMPTING SERVICE OR DISASSEMBLY PROCEDURES. Disconnect air lines and carefully bleed pressure off of the system. Be certain the system is not maintaining pressure due to a material restriction in the hose, line, dispensing device or the spray or extrusion tip. Failure to relieve pressure, both up stream and downstream, may result in an injury upon disassembly.

⚠WARNING BONNET REMOVAL HAZARD. DO NOT ATTEMPT TO REMOVE THE BONNET RETAINING BOLTS WITHOUT FIRST RELIEVING THE TENSION ON THE MAIN SPRING. Failure to relieve tension could result in an accident upon disassembly.

⚠WARNING PREVENT FIRES. KEEP SOLVENTS AWAY FROM HEAT, SPARKS OR OPEN FLAME. Keep containers closed when not in use. When pumping, flushing or recirculating volatile solvents, be certain the area is adequately ventilated.

⚠ CAUTION FLUSH SUPPLY LINE. Before installing fluid regulator, blow the supply lines clear and flush to remove contaminates.

⚠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.**
NOTICE	**= Important installation, operation or maintenance information.**

DISASSEMBLY

1. Unscrew the (2 and 3) cap screws from the (5) nuts.
2. Lift the (4) housing and nut assembly from the (16) base.
3. Remove the (6) spring cap and (7) spring.
4. The (9 and 10) diaphragms are now accessible. Unscrew (12) seat assembly from the (16) base. This provides access to (14) ball, (13) seal and (15) spring.

REASSEMBLY

1. Place (15) spring in (16) base. Set (14) ball on top of (15) spring. Use new (13) seal, place it on (16) base.
2. Screw (12) seat assembly into (16) base and tighten to 8 - 12 ft lbs (10.8 - 16.3 Nm).
3. To assemble diaphragm, place (9 and 10) diaphragms together. Place (10) diaphragm next to the hex over the threaded end of the (11) push rod assembly.
4. Apply Loctite 242 to threads on (11) push rod assembly. Screw (11) push rod assembly into (8) back-up plate and tighten, making sure all holes in the diaphragms align. Align holes in diaphragms with holes in base.
5. Place (4) housing and nut assembly on the (9) diaphragm.
6. Insert (2 and 3) cap screws through the holes in the (4) housing and nut assembly.
7. Place (5) nuts on screws and tighten to 40 - 50 ft lbs (54.2 - 67.8 Nm).

☞ **TORQUE REQUIREMENTS** ☜
NOTE: DO NOT OVERTIGHTEN FASTENERS
(2 and 3) Cap screws 40 - 50 ft lbs (54.2 - 67.8 Nm).
(12) Seat assembly 8 - 12 ft lbs (10.8 - 16.3 Nm).

LUBRICATION / SEALANTS
Apply Loctite 242 to threads of (11) push rod assembly.

MATERIAL CODE
[A] = Aluminum
[B] = Nitrile
[C] = Carbon Steel
[Ny] = Nylon
[SS] = Stainless Steel
[T] = Teflon
[TC] = Tungsten Carbide
[Z] = Zinc

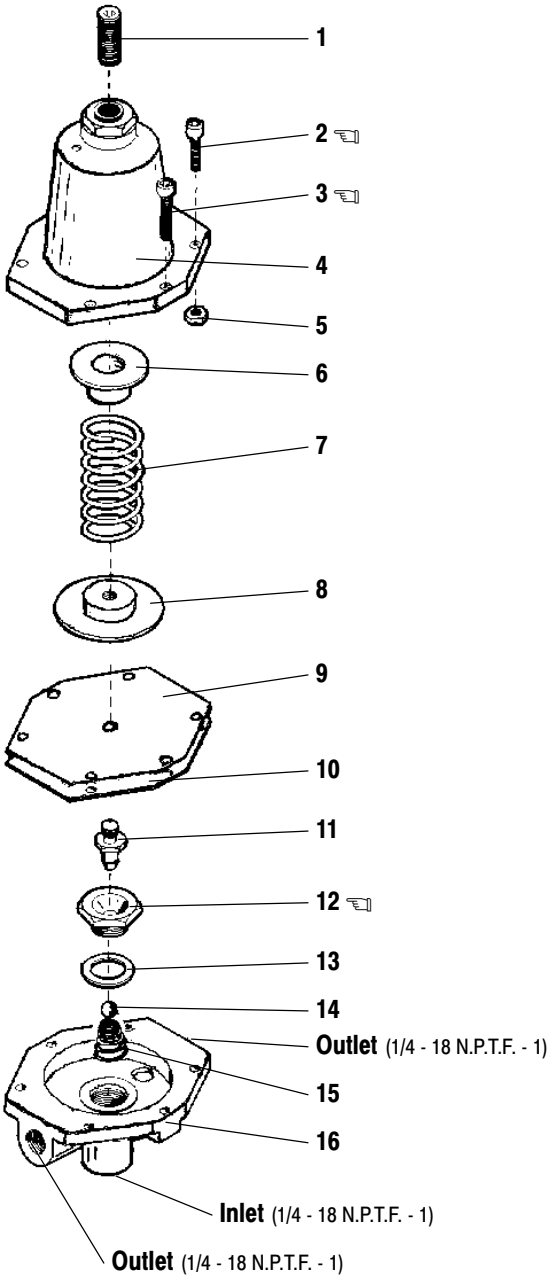

FIGURE 2

PARTS LIST

ITEM	DESCRIPTION (Size in Inches)	QTY	PART NO.	[MTL]
1	Set Screw (3/8" - 24 x 1-1/4")	(1)		[C]
2	Cap Screw (#10 - 24 x 3/4")	(4)		[C]
3	Cap Screw (#10 - 24 x 1")	(2)		[C]
4	Housing and Nut Assembly	(1)	873333	[Z/C]
5	Nut (#10 - 24)	(6)		[C]
6	Spring Cap	(1)		[C]
7	Spring (0 - 50 p.s.i.)	(1)	873066	[C]
8	Back-up Plate	(1)		[A]
9	Diaphragm	(1)	873059	[B/Ny]

ITEM	DESCRIPTION (Size In Inches)	QTY	PART NO.	[MTL]
10	Diaphragm	(1)	873060	[T]
11	Push Rod Assembly	(1)	873061	[TC/SS]
12	Seat Assembly	(1)	873062	[TC/SS]
13	Seal	(1)	873063	[T]
14	Ball (.250 dia.)	(1)	873064	[TC]
15	Spring	(1)	873065	[SS]
16	Base	(1)		[SS]
17	3/16" Allen Wrench (not shown)	(1)		[C]