Binks FLUID REGULATORS
Models 84-345 (5-55 psi) and 84-412 (5-100 psi), Key Operated; Model 84-408* (5-55 psi), Remote Control

84-330 DIAPHRAGM

84-463 GASKET

84-317 (84-345)
84-452 (84-412)

84-325 STEM ASSEMBLY

84-324 STEM
84-326 FOLLOWER
84-323 WASHER
33-190 PIN

84-322 SCREW

84-40 CONNECTOR

84-344 BODY

84-342 RETAINER
84-335 VALVE*
84-347 INLET
84-355 CAP

72-337 SWIVEL NUT

84-338 TAILPIECE

84-334 SEAT*
84-339 DIAPHRAGM
84-395 ROD

84-330 DIAPHRAGM (Nylon)

PARTS LIST

(When ordering, please specify Part No.)

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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<tr>
<td>20-3699</td>
<td>SOC. HD. CAP SCREW, 10-24 x 1&quot; LONG</td>
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<td>84-331</td>
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<td>20-4456</td>
<td>LOCK NUT (84-408)</td>
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<td>33-190</td>
<td>PIN</td>
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<td>84-335*</td>
<td>VALVE</td>
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<td>72-337</td>
<td>SWIVEL NUT</td>
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<td>84-338</td>
<td>TAILPIECE</td>
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<td>83-1290</td>
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<td>RETAINER</td>
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<td>83-1355</td>
<td>GAUGE, 0-100 PSI (84-345, 84-408)</td>
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<td>CONNECTOR</td>
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<td>INLET</td>
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<td>84-317</td>
<td>SPRING (84-345)</td>
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<td>SOCKET</td>
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<td>84-321</td>
<td>BONNET</td>
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<td>84-355</td>
<td>CAP</td>
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<td>84-322</td>
<td>SCREW</td>
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<td>84-388*</td>
<td>GASKET</td>
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<td>84-323</td>
<td>WASHER</td>
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<td>ROD</td>
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<td>84-324</td>
<td>STEM</td>
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<td>84-399*</td>
<td>DIAPHRAGM (PTFE)</td>
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<td>84-325</td>
<td>STEM ASSEMBLY</td>
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<td>84-452</td>
<td>SPRING (84-412)</td>
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<tr>
<td>84-326</td>
<td>FOLLOWER</td>
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<td>84-460</td>
<td>BODY (84-408 only)</td>
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<td>84-328*</td>
<td>DISC</td>
<td>2</td>
<td>84-463*</td>
<td>GASKET</td>
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</tbody>
</table>

* Also furnished in Repair Kit 6-221. Please order Kit separately.

** Available only as a matched set. Please specify 84-481.

* Before installing the Regulator, tighten all (6) flange screws securely.

* Parts used on Models 84-345 or 84-412 only.

Replaces Part Sheet 77-1632R-12 | Part Sheet 77-1632R-13
WARNING

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

CAUTION

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

NOTE

Important installation, operation or maintenance information.

Read the following warnings before using this equipment.

READ THE MANUAL
Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.

WEAR SAFETY GLASSES
Failure to wear safety glasses with side shields could result in serious eye injury or blindness.

DE-ENERGIZE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE
Failure to De-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.

OPERATOR TRAINING
All personnel must be trained before operating finishing equipment.

EQUIPMENT MISUSE HAZARD
Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.

KEEP EQUIPMENT GUARDS IN PLACE
Do not operate the equipment if the safety devices have been removed.

HIGH PRESSURE CONSIDERATION
High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the spray gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury.

PRESSURE RELIEF PROCEDURE
Always follow the pressure relief procedure in the equipment instruction manual.

ELECTRIC SHOCK/GROUNDING
Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

PROJECTILE HAZARD
You may be injured by venting liquids or gases that are released under pressure, or flying debris.

INSPECT THE EQUIPMENT DAILY
Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.

NEVER MODIFY THE EQUIPMENT
Do not modify the equipment unless the manufacturer provides written approval.

FIRE AND EXPLOSION HAZARD
Improper equipment grounding, poor ventilation, open flame or sparks can cause hazardous conditions and result in fire or explosion and serious injury.

KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY

STATIC CHARGE
Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

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).
Binks FLUID REGULATORS
Models 84-345 (5-55 psi) and 84-412 (5-100 psi), Key Operated; Model 84-408 (5-55 psi), Remote Control

INSTALLATION DATA

Installation is simplified by the use of a swivel nut inlet connection (see photo). This is standard on all models; it eliminates the cost of a union, and provides a quick and convenient method to easily remove the unit from the line.

NOTE: Due to variations in diaphragm stretch, fluid flow may not shut-off when the pressure is backed off to zero. Install an inlet valve if complete shut-off is required.

<table>
<thead>
<tr>
<th>Regulation Range</th>
<th>Max. Rec. Flow</th>
<th>Max. Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 55 PSI</td>
<td>128 Oz./Min.</td>
<td>200 PSI</td>
</tr>
<tr>
<td>5 - 100 PSI</td>
<td>3.78 L/Min.</td>
<td>14.1 Kg/cm²</td>
</tr>
<tr>
<td>3.8 Kg/cm²</td>
<td>7.0 Kg/cm²</td>
<td></td>
</tr>
</tbody>
</table>

MOUNTING
Regulator (3/8” N.P.T.(M) Inlet) may be mounted in either a horizontal or vertical position. However, in all cases: to operate properly, Gauge Riser Tube must be in a vertical position.

REGULATION
Remote Control – Connect a self-relieving type Air Regulator with Air Hose or tubing to the Air Inlet on the Fluid Regulator. Adjust Fluid Regulator to desired setting by operating Air Regulator and observing Gauge reading on Fluid or Air Regulator.

NOTE: Fluid should be flowing through regulator when regulating pressure.

OPERATING INSTRUCTIONS

BLOW-BACK
Key Operated – Use hexagon end of key. Turn counter-clockwise and Gauge will read Inlet (main line) pressure.

Remote Control – Increase pressure with self-relieving type Air Regulator (see “REGULATION”) until fluid regulator reaches main line pressure. To discontinue blow-back, reset Fluid Regulator to desired pressure as described under “REGULATION”.

CAUTION: When blowing back to reverse-flush Regulator, be sure air pressure does not exceed maximum rating of Gauge.

BUZZING: When regulated pressure climbs, it normally indicates dirt on the Seat; trigger Gun rapidly to flush Seat. If climbing continues, open Regulator to main line to flush. If climbing still persists, replace Valve and Seat.

TO REPLACE FLUID VALVE & SEAT
Remove Regulator from line by loosening the Swivel Nut, always blow back Regulator before removing. At Inlet, remove (counter-clockwise rotation) slotted Cap Nut with screw driver; Ball Valve will slide off Rod. Unscrew (counter-clockwise rotation) hexagon Inlet Retainer; Valve Seat will be removed with Retainer.

Remove Valve Seat from Retainer and replace if worn. Ball Valve may be reversed and reused unless both sides are worn.

To Reassemble – Insert Valve Seat into Retainer; note position of Shoulder. Place Ball Valve on Rod, and screw Cap Nut on Rod and tighten. Screw Hex Retainer on to Body and tighten. Regulator requires no adjustments.

TO REPLACE DIAPHRAGM
Remove Regulator from line. At Inlet, remove slotted Cap Nut with screw driver; Ball Valve will slide off Rod. Remove Bonnet by loosening (6) Socket Head Cap Screws. Clamp Diaphragm assembly in vise, loosen 84-331 Nut and remove Diaphragm.

To Reassemble – Reverse above procedure.

SERVICE INSTRUCTIONS

TO REPLACE UNION

UNION CONNECTION

M O D ELS W ITH REM O TE C O N T R O L AIR INLET 1/8 N.P.T(F)
CONNECT TO SELF-RELIEVING TYPE AIR REGULATOR

3/8 N PT INLET

MODELS WITH REMOTE CONTROL AIR INLET 1/8 NPT(F) CONNECT TO SELF-RELIEVING TYPE AIR REGULATOR

UNION CONNECTION

3/8 NPT INLET

84-335 VALVE*

84-342 RETAINER BODY

84-355 CAP NUT

84-334 SEAT*

84-395 ROD

*Available only as a matched set. Please specify 84-481.
WARRANTY
This product is covered by Binks’ 1 Year Limited Warranty.

Binks Sales and Service: www.binks.com