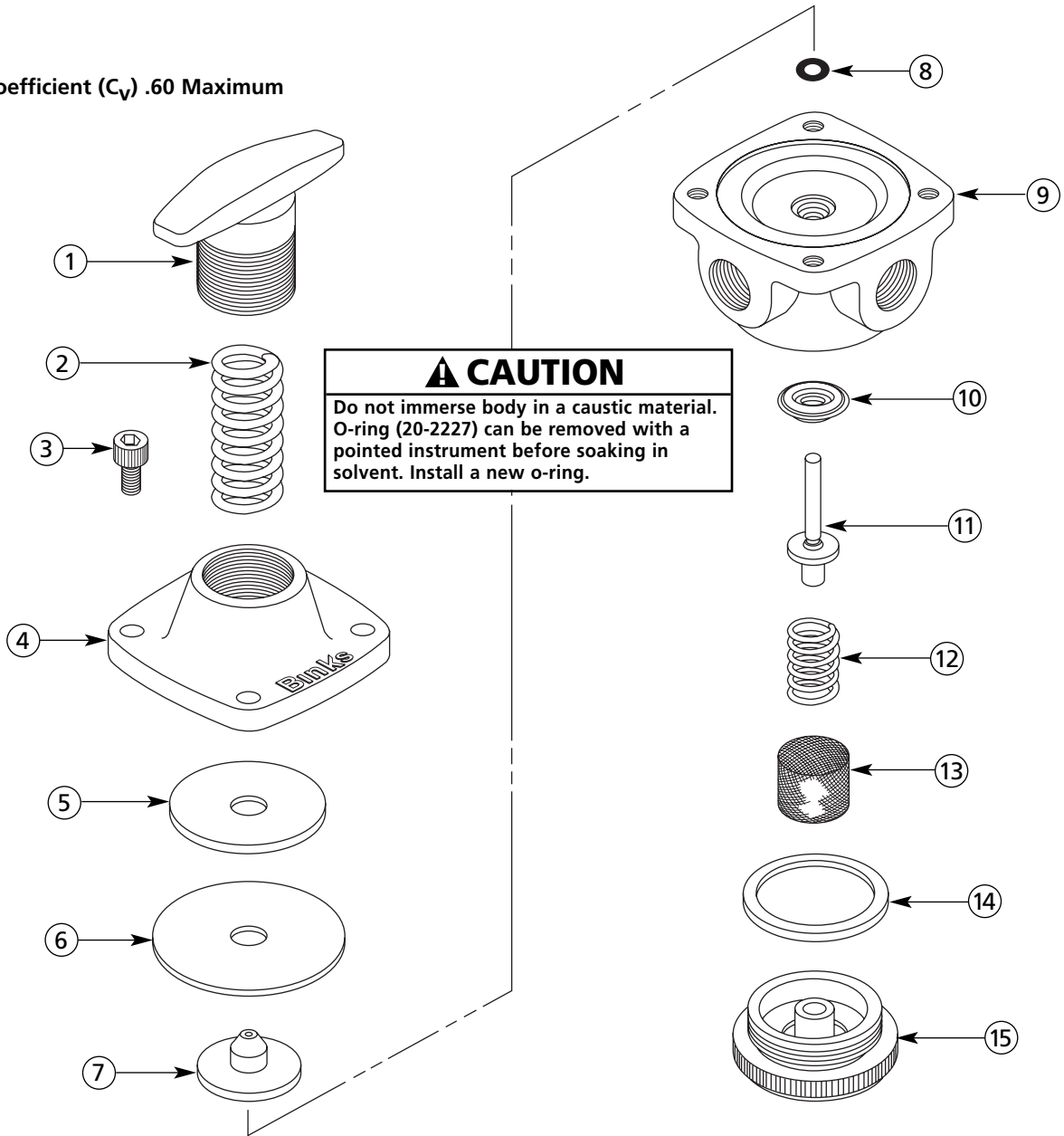




# Binks Model 85-214 and 85-215 1/4" AIR PRESSURE REGULATOR

Flow Coefficient (C<sub>v</sub>) .60 Maximum



## PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	85-192	KNOB .....	1	10	85-341■	SEAT (Buna-N, Standard) .....	1
2	85-305	SPRING .....	1		86-916★●	SEAT (Polyethylene, Optional).....	1
3	20-3635	SCREW No.10-24 x 1/2 Socket Head .....	4	11	85-309	VALVE .....	1
4	85-304	BONNET .....	1	12	85-196■	SPRING .....	1
5	85-193	DISC .....	1	13	85-310■	SCREEN.....	1
6	85-306■	DIAPHRAGM .....	1	14	20-4407■	SEAL .....	1
7	85-194	SEAT .....	1	15	85-336	CAP.....	1
8	20-2227■	O-RING .....	1				
9	85-301●	BODY (For Model 85-214) .....	1				
	85-303●	BODY (For Model 85-215) .....	1				

■ Also available in Repair Kit 6-207. Please order separately.  
 ● Not sold separately.  
 ★ Part of 85-198 Kit. Not available separately.

In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

**⚠ 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**

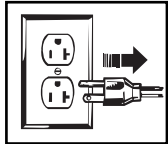
Read the following warnings before using this equipment.



**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.



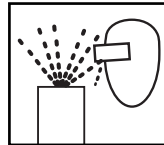
**HIGH PRESSURE CONSIDERATION**  
 High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the spray gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury.



**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.



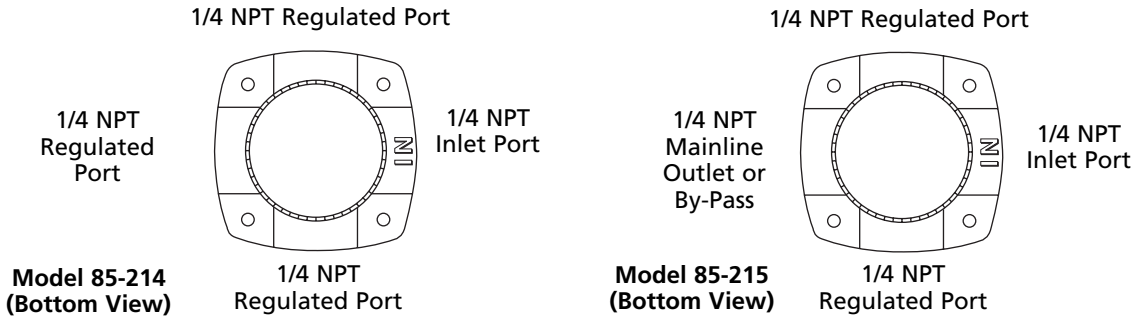
**KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY**



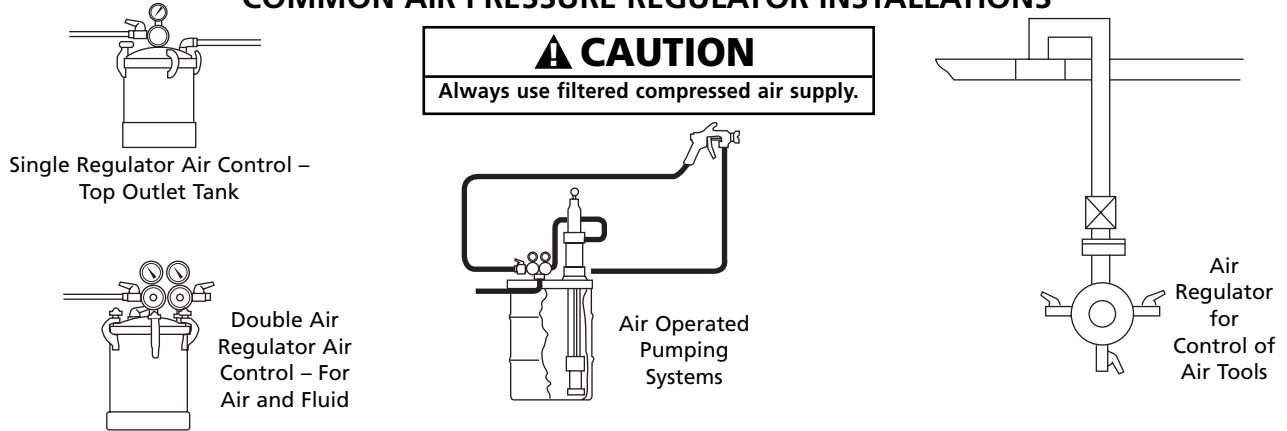
**STATIC CHARGE**  
 Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion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

**FOR FURTHER SAFETY INFORMATION REGARDING BINKS AND DEVILBISS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).**

## IDENTIFICATION OF AIR REGULATOR PORTS



## COMMON AIR PRESSURE REGULATOR INSTALLATIONS



## TROUBLESHOOTING MODELS 85-214 AND 85-215 AIR PRESSURE REGULATORS

TROUBLE	PROBABLE CAUSE	REMEDY
1. Air leaks around bonnet flange.	a. Screws loose. b. Diaphragm pulled away from bonnet.	a. Tighten screws. b. Replace diaphragm.
2. Air leaks out of vent hole on top of bonnet continuously.	a. Diaphragm punctured. b. Dirt in bleed valve seat. c. Bleed valve seat or valve assembly worn.	a. Replace diaphragm. b. Clean valve seat. c. Replace bleed valve seat and valve assembly.
3. Regulator gauge climbs to main line pressure.	a. Seat damaged, dirty or worn. b. Valve assembly damaged, dirty or worn.	a. Clean parts if dirty. b. Replace damaged parts.
4. Regulator will not regulate pressure.	a. Spring is broken. b. Valve assembly is stuck. c. Vent hole in bonnet plugged.	a. Replace spring. b. Free valve assembly. c. Clean vent hole.
5. Regulator does not pass any air.	a. Control knob not turned in. b. Screen plugged. c. Main air line not turned on.	a. Turn regulator on. b. Clean or replace screen. c. Turn main line on.
6. Regulator buzzing.	a. Defective o-ring (20-2227).	a. Replace o-ring.
7. Back cap leaks air.	a. Loose end cap. b. End cap seal missing or broken.	a. Tighten end cap. b. Replace end cap seal.

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## **WARRANTY**

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

77-1890R-9 Revisions: (P4) Updated contact information.

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## **Binks Worldwide Sales and Service Listing: [www.binks.com](http://www.binks.com)**

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### **ITW Industrial Finishing**

Binks has authorized distributors throughout the world. For technical assistance or the distributor nearest you, see listing below.

#### **U.S./Canada Technical Service Office:**

195 Internationale Blvd., Glendale Heights, IL 60139  
Toll-Free Telephone: 1-888-992-4657 (U.S.A. and Canada only)  
Toll-Free Fax: 1-888-246-5732

### **ITW Automotive Refinishing**

Binks has authorized distributors throughout the world. For equipment, parts and service, check the Yellow Pages under "Automotive Body Shop Equipment and Supplies." For technical assistance, see listing below.

#### **U.S./Canada Customer Service Office:**

1724 Indian Wood Circle, Suite J-K, Maumee, OH 43537  
Toll-Free Telephone: 1-800-445-3988 (U.S.A. and Canada only)  
Toll-Free Fax: 1-800-445-6643



An Illinois Tool Works Company