BINKS® MODELS 84-420 & 84-520 FLUID PRESSURE REGULATORS

	Medium Pressure Model 84-520	High Pressure Model 84-420
Pressure Range (PSI)	100-900	300-2000
Working Press. (Max.) (PSI)	2000	3000
Flow Coefficient (C_v)	.18	.18

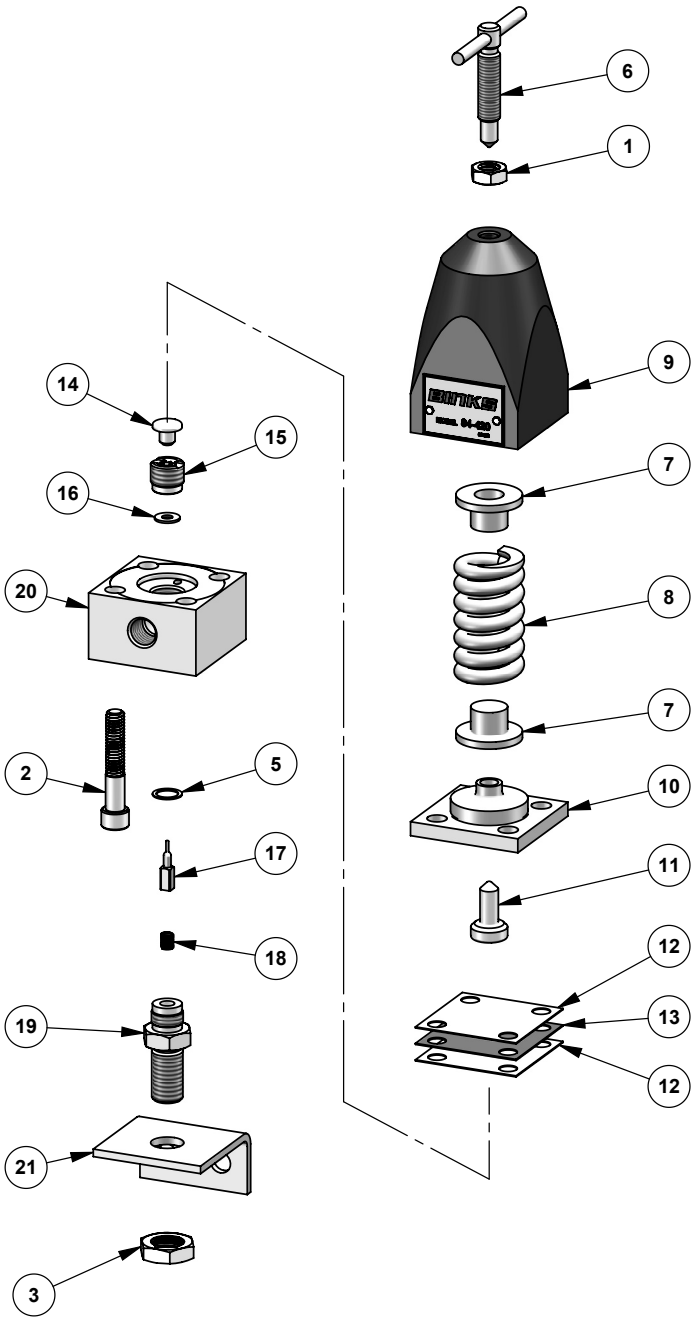
$$\text{Flow Rate (GPM)} = \text{Flow Coeff. } (C_v) \sqrt{\frac{\text{Inlet Press. (PSI)} - \text{Outlet Press. (PSI)}}{\text{Specific Gravity}}}$$

PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	84-420 QTY.	84-520 QTY.
1	—	NUT, 3/8-16 JAM	1	1
2	—	SCREW, 5/16-18 X 1-3/4	4	4
3	20-4457	LOCKNUT, 1/4 NPS	1	1
5	54-1468 ▲	GASKET	1	1
6	84-423	HANDLE	1	1
7	84-424	BUTTON	2	2
8	84-425 ▲ 84-503 ▲	SPRING	1 —	— 1
9	84-426	BONNET	1	1
10	84-427	FLANGE	1	1
11	84-428	PISTON	1	1
12	84-429 ▲	DIAPHRAGM	2	2
13	84-430 ▲	DIAPHRAGM	1	1
14	84-432	PIN	1	1
15	84-435	SEAT	1	1
16	84-436 ▲	GASKET	1	1
17	84-440	VALVE	1	1
18	84-441 ▲	SPRING	1	1
19	84-442	INLET	1	1
20	84-443	BODY	1	1
21	84-466	BRACKET	1	1
22	20-2161	PLUG (NOT SHOWN)	1	1
23	237-375	DM NIPPLE (NOT SHOWN)	1	1
24	101-9120	SWIVEL (NOT SHOWN)	1	1

▲ Indicates parts included in 6-1306 Repair Kit.



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.

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.

LOCK OUT / TAG-OUT
Failure to de-energize, disconnect, lock out and tag-out all power sources before performing equipment maintenance could cause serious injury or death.

AUTOMATIC EQUIPMENT
Automatic equipment may start suddenly without warning.

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

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

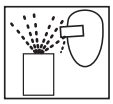
KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY

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

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.

NOISE HAZARD
You may be injured by loud noise. Hearing protection may be required when using this equipment.



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

PINCH POINT HAZARD
Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.

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.

WEAR RESPIRATOR
Toxic fumes can cause serious injury or death if inhaled. Wear a respirator as recommended by the fluid and solvent manufacturer's Safety Data Sheet.

TOXIC FLUID & FUMES
Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, injected or swallowed. LEARN and KNOW the specific hazards or the fluids you are using.

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

MEDICAL ALERT
Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor you suspect an injection injury.
- Show the doctor this medical information or the medical alert card provided with your airless spray equipment.
- Tell the doctor what kind of fluid you were spraying or dispensing.

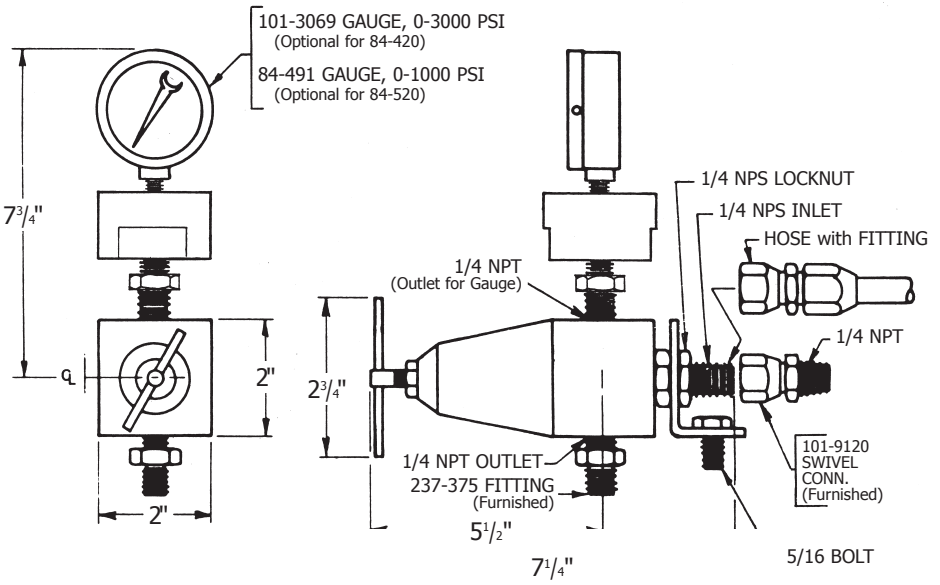
GET IMMEDIATE MEDICAL ATTENTION
To prevent contact with the fluid, please note the following:

- Never point the gun/valve at anyone or any part of the body.
- Never put hand or fingers over the spray tip.
- Never attempt to stop or deflect fluid leaks with your hand, body, glove or rag.
- Always have the tip guard on the spray gun before spraying.
- Always ensure that the gun trigger safety operates before spraying.

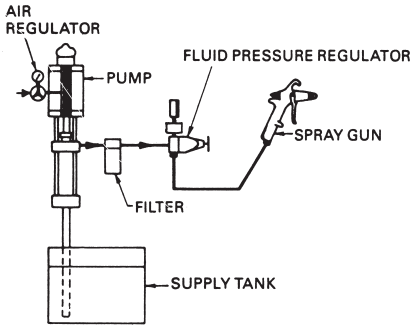
PROP 65 WARNING
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.
FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

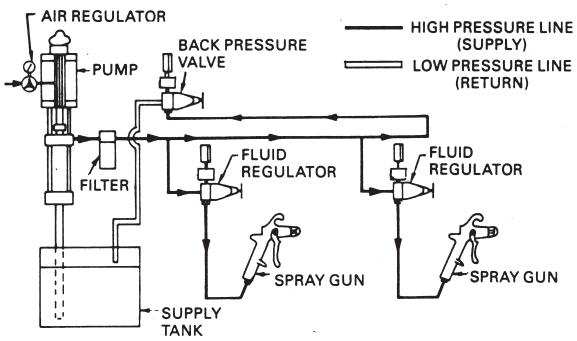
TYPICAL INSTALLATION



SYSTEM INTEGRATION



SINGLE SPRAY STATION — DEAD END



TYPICAL MULTIPLE SPRAY STATIONS

TYPICAL INSTALLATIONS

1. Regulator can be mounted in any position.
2. Regulator is bracket-mounted, and pipe- or hose-connected.
3. Use 1/4" N.P.T. high pressure fittings for installation.
4. One spray gun per regulator is recommended.
5. If using pressure gauge, install as illustrated.

OPERATION

1. Regulator controls pressure downstream.
2. To increase pressure, turn knob clockwise.
3. To decrease pressure, turnknob counter-clockwise. If using pressure gauge, partially relieve pressure in gun hose when reducing regulator pressure, so correct pressure will show on gauge.

TROUBLESHOOTING

PROBLEM	REMEDY
1. Climbing regulator; does not hold set regulated pressure.	1. Clean (or replace) valve and seat.
2. Excessive pressure drop.	2. Check supply or inlet pressure.
3. Leaking at adjustment knob.	3. Replace diaphragms.

WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

Carlisle Fluid Technologies is a global leader in innovative finishing technologies.
Carlisle Fluid Technologies reserves the right to modify equipment specifications without prior notice.

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

Region	Industrial / Automotive	Automotive Refinishing
Americas	Tel: 1-800-992-4657 Fax: 1-888-246-5732	Tel: 1-800-445-3988 Fax: 1-800-445-6643
Europe, Africa, Middle East, India	Tel: +44 (0)1202 571 111 Fax: +44 (0)1202 573 488	
China	Tel: +8621-3373 0108 Fax: +8621-3373 0308	
Japan	Tel: +81 45 785 6421 Fax: +81 45 785 6517	
Australia	Tel: +61 (0) 2 8525 7555 Fax: +61 (0) 2 8525 7575	

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