

LOW PRESSURE PNEUMATIC COLOR CHANGE SELECTORS

MODELS:

240-5002 MAIN BOX (COLORS 1-5)

240-5003 ADD-ON BOX (COLORS 6-15)



SPECIFICATIONS

Maximum air inlet pressure:	7 bar [105 psi]
Air requirements (operating pressure):	4.8-6.9 bar [70-100 psi]
Air inlet connection:	1/4" OD tubing
Valve actuation speed (ON/OFF cycles):	55 cycles/min
Number of colors:	1 to 5 (main box); up to 10 additional per add-on box

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 Material 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.

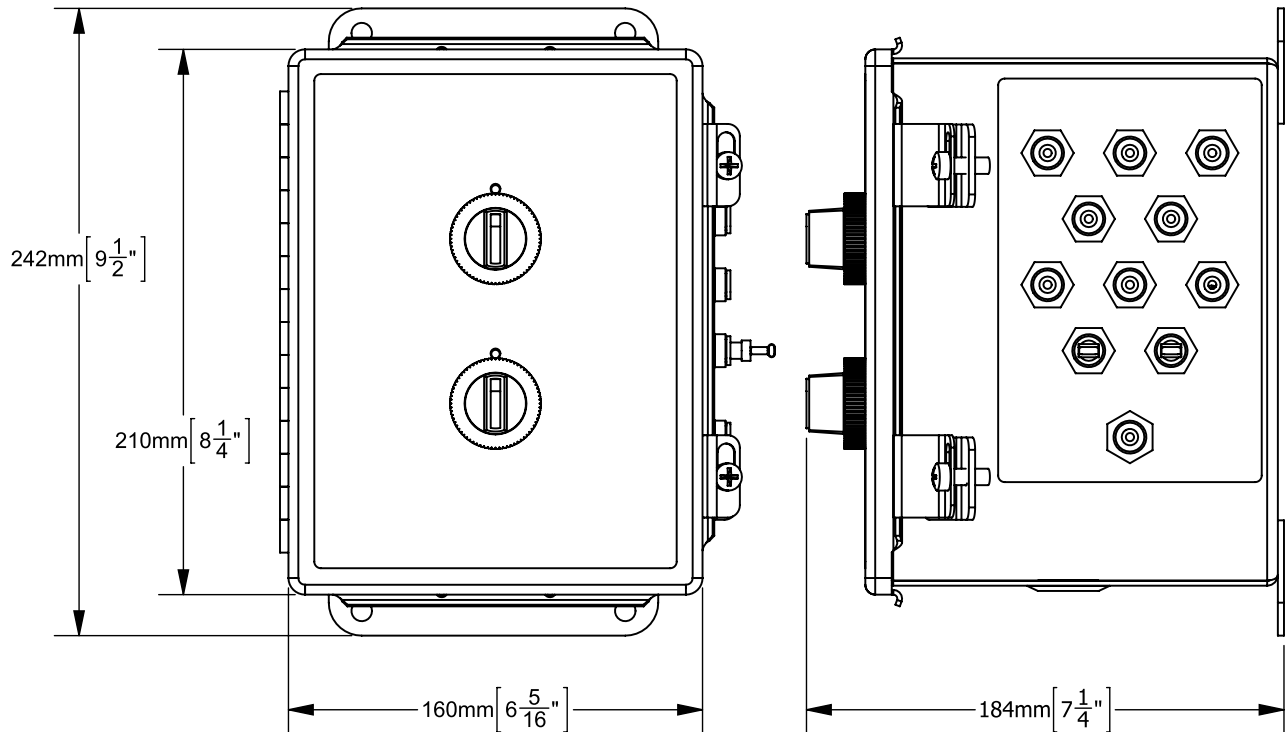
IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT. FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

Product Description / Object of Declaration:	Color Stacks - 240-35XX, 240-51XX, CCV-51XX; CCV-71XX; Pneumatic Color Select Boxes - 240-5002, 240-5003, LPNE5002, LPNE5003; Color Stack & Pneumatic Color Select Box Assembly CCV-61XX		
This Product is designed for use with:	Solvent & Waterbased Materials		
Suitable for use in hazardous area:	Zone 1/Zone 2		
Protection Level:	II 2 G X/Ex h II Gb X		
Notified body details and role:	Element Materials Technology Rotterdam B.V. (2812)		
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Binks US LLC. 3760 Victoria St N Shoreview, MN 55126. USA		
Representative authorised to compile the technical file	President @. Binks France SAS 5 Place Pierre Semard, 94130 Nogent sur Marne Paris, France		
EU Declaration of Conformity			
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:			
Machinery Directive 2006/42/EC ATEX Directive 2014/34/EU by complying with the following statutory documents and harmonised standards: EN ISO 12100:2010 Safety of Machinery - General Principles for Design EN ISO 80079-36:2016 Explosive Atmospheres- Part 36:Non Electrical equipment for explosive atmospheres-Basic methods and requirements. EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k". EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts			
Providing all conditions of safe use / installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.			
Signed for and on behalf of Binks US LLC:	 F. A. Sutter 4/8/25	Executive President: Engineering and Operations, 3760 Victoria St N Shoreview, MN 55126. USA	
Document Part No. 4-3191R-3 EN			

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UKCA Declaration of Conformity  			
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:			
Supply of Machinery (Safety) Regulations 2008 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 by complying with the following statutory documents and designated standards: BS EN ISO 12100:2010 Safety of Machinery - General Principles for Design BS EN ISO 80079-36:2016 Explosive Atmospheres- Part 36:Non Electrical equipment for explosive atmospheres-Basic methods and requirements. BS EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k". BS EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts			
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240-5002 & 240-5003 INSTALLATION

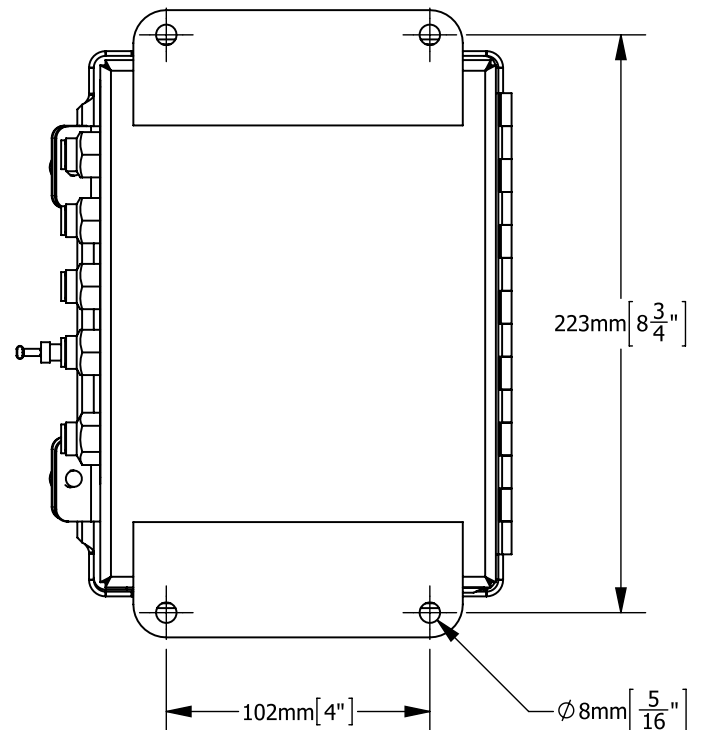
Color Select Boxes Dimensions



Mounting Pattern

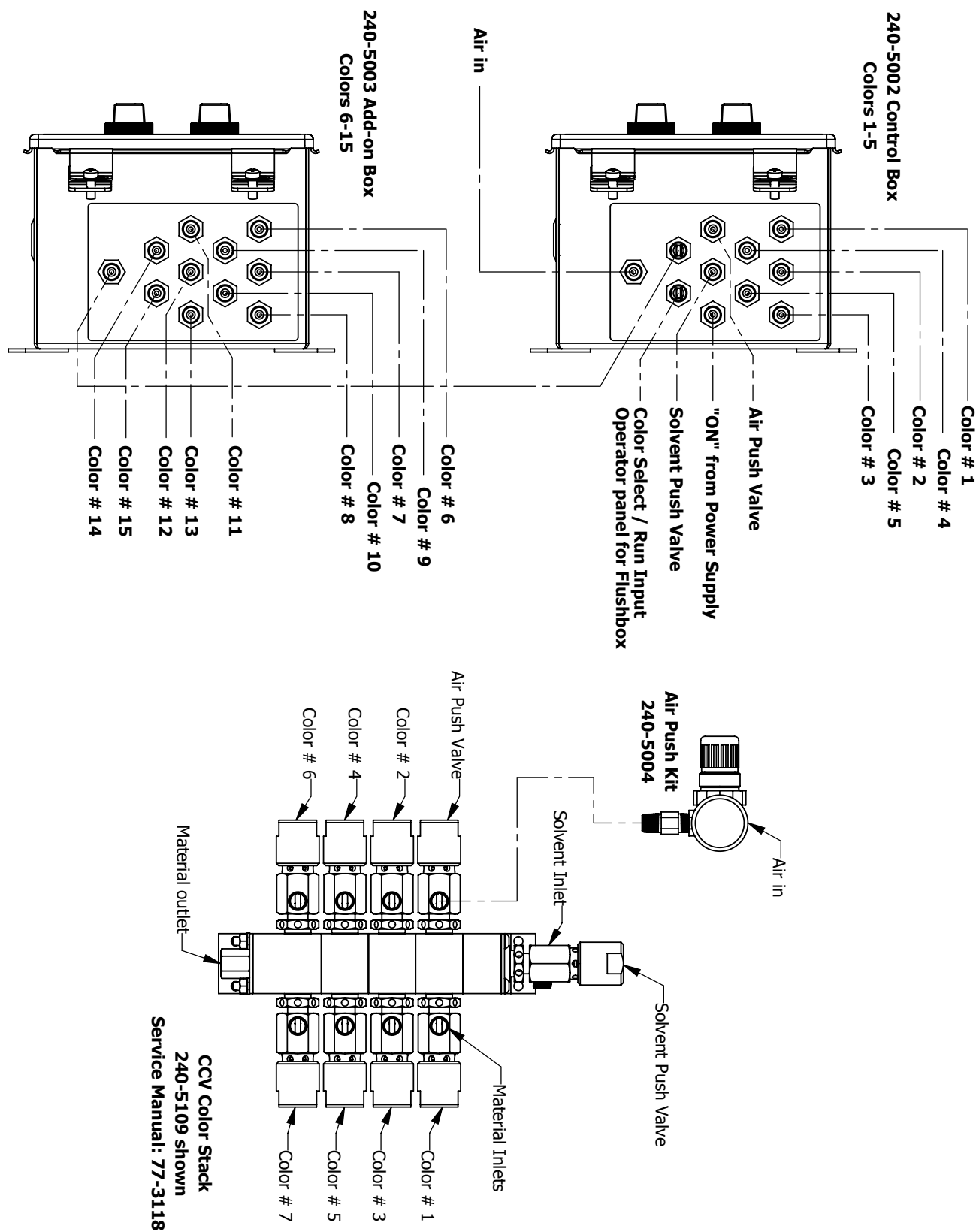
The Color Select Box have mounting brackets for ease of mounting. The Color Select Boxes may be mounted using the pattern at right.

Mounting hardware can be any type of a 6mm [1/4 in] bolt with flat washers. A minimum of 150mm [6 in] should be left between the air outlets on the box and the Color Change Stack (240-51xx), to allow ample room for the air tubing to be run later.



240-5002 & 240-5003 INSTALLATION

Typical Installation diagram



240-5002 & 240-5003 INSTALLATION

Air Tubing Connections

For the proper connection locations on the Color Select Box, refer to Figure 2. The main supply air must be dried and filtered. Using Figure 2, and the "Installation Diagram," Figure 9, the air tubing can be run to the color Change Stack. The high voltage signal air, "HV6," may be used only if a pneumatic control panel is being used. In this case, HV6 is connected directly to HV6 on the pneumatic control panel.

Coating Material Connections

Number the coating materials to correspond to the numbers of the Color Select System. 3/8-inch OD tubing is to be used to connect the Color Change Valves to the coating material. Connect the tubing from material (#1) to CCV (#1), tubing from material (#2) to CCV (#2), and so on, matching materials with the proper CCV.

NOTE
The coating material must be pressurized for the Color Select System to function properly.

Solvent Connection

The solvent is connected in the same way as the Coating Material, using 3/8-inch OD tubing. Installation of the Color Select System is made simple by its ability to be placed in a Class I, Division I environment. The color change valves can be mounted as close to the paint or the applicator as is desired. The color select box can be mounted right on the wall of the spray booth, allowing for fast color changes, since the operator does not have to leave the booth.

NOTE
The solvent must be pressurized for the Color Select System to function properly.

240-5002 & 240-5003 OPERATION

Overview

The flow of the coating material is controlled by selecting the proper color number on the Color Select Boxes corresponding to the Color Change Valve (CCV) desired. If two Color Select Boxes are used, all Color Select Switches not in use must be set to the "OFF" position. After the proper color number is selected, the coating material is activated by selecting the "COLOR SELECT".

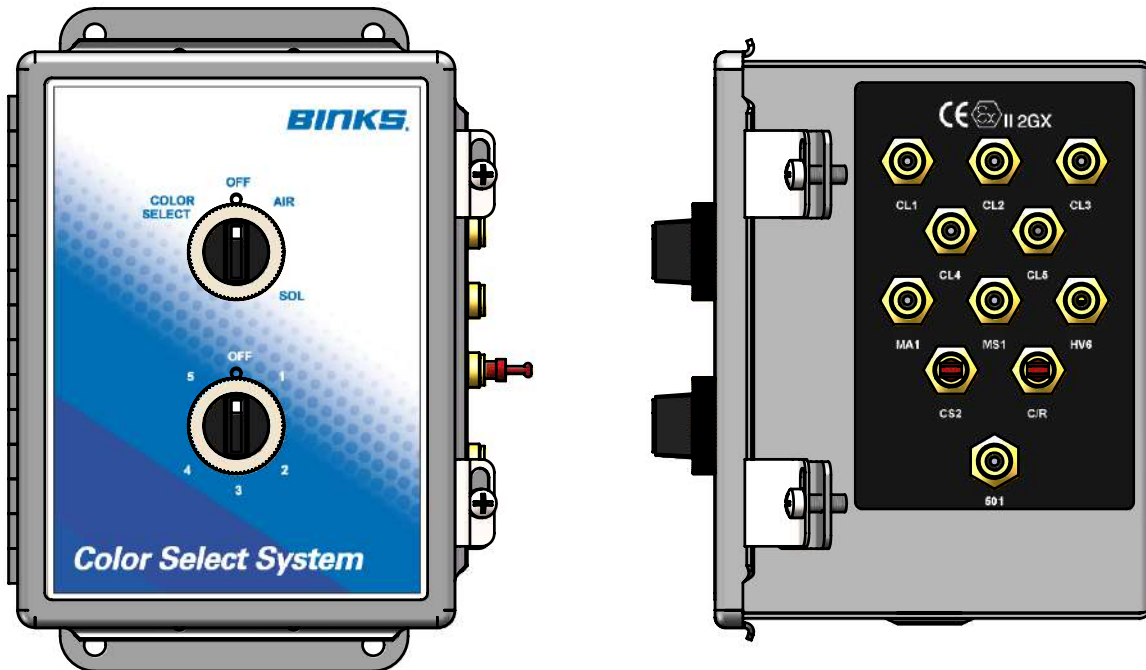
NOTE
To select a new "COLOR", the main switch must be moved from the "COLOR SELECT" to the "OFF" position.
To flush the coating material from the coating system, select the "SOL" position, which will activate the solvent. The "AIR" position can be used to blow the coating material or the solvent out of the coating system.

The coating material is supplied from the users pressurized system that may be a pressure tank, paint circulating system or other suitable pressure paint supply system.

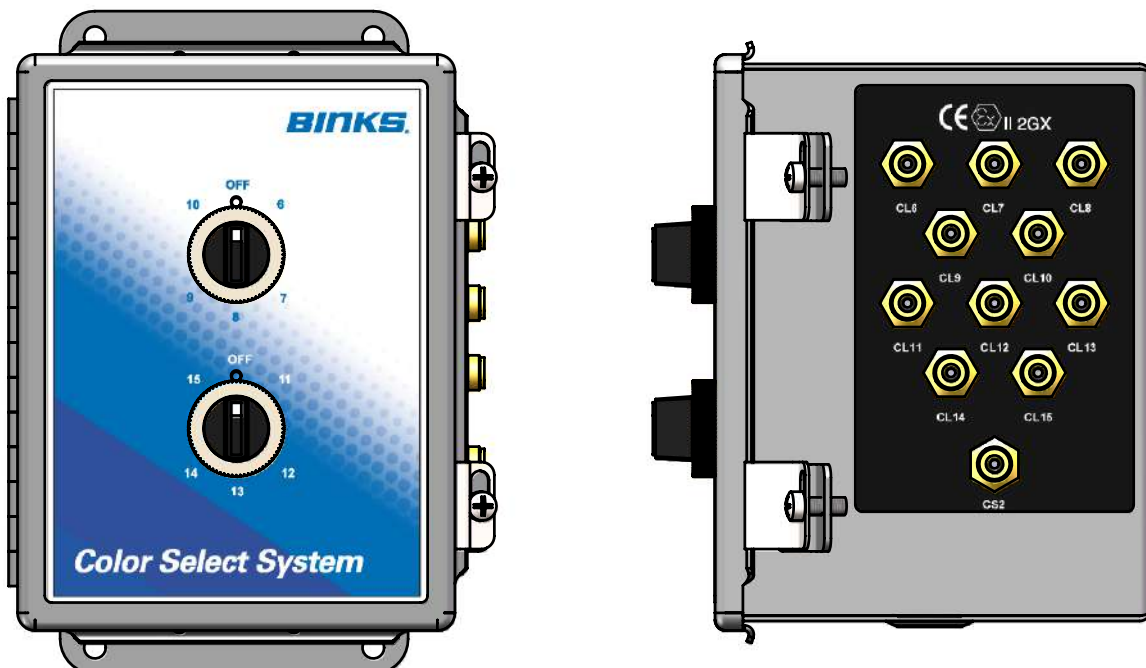
An air signal supplied to the CCV activates the paint being delivered to the applicator. The air signal is controlled by the Color Select Boxes. 1/4-inch OD air tubing is recommended for use between the Color Select Box(es) and the CCVs on the color stack.

240-5002 & 240-5003 OPERATION

240-5002 Color Select Box (Master)



240-5003 Color Select Box (Add-on)



240-5002 & 240-5003 OPERATION

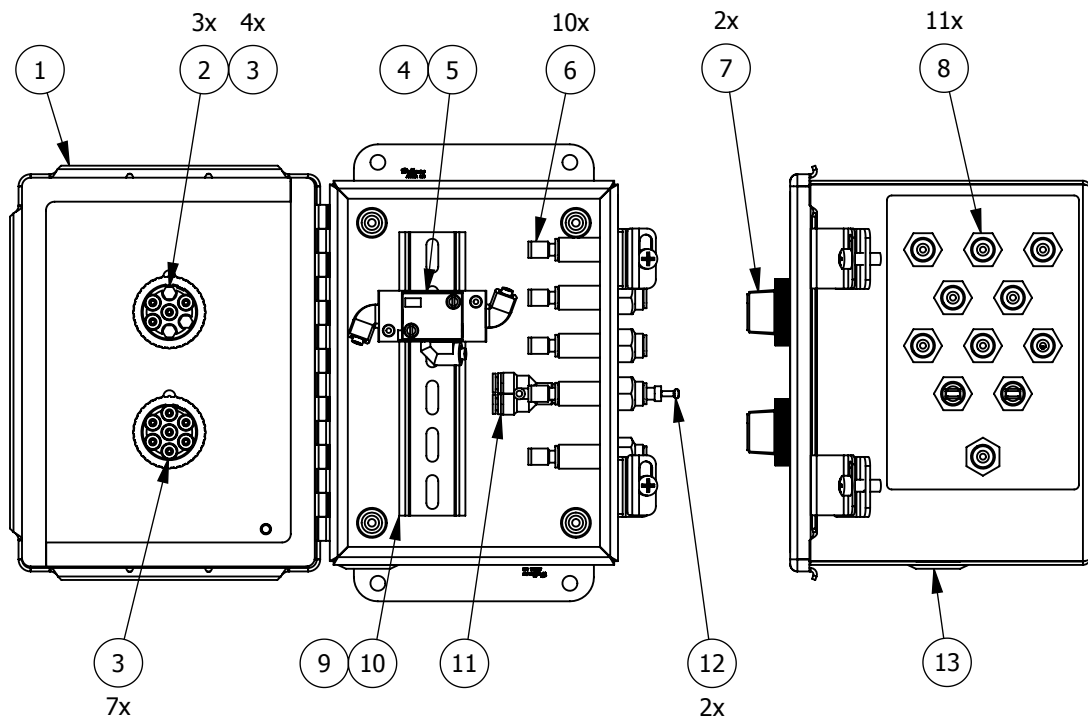
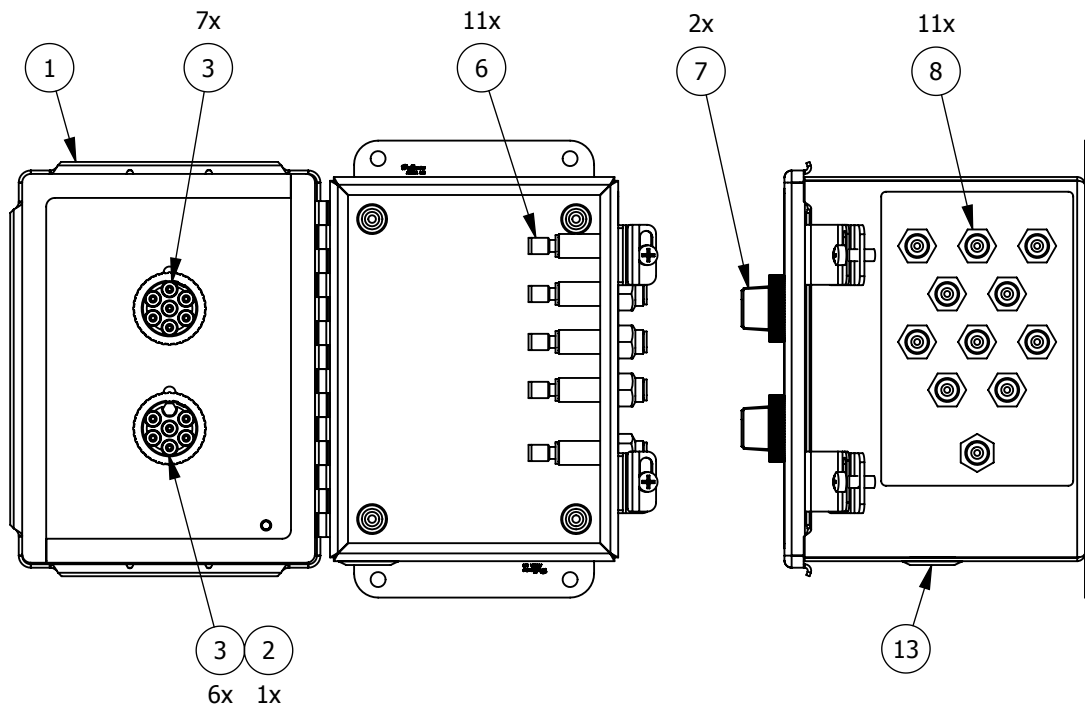
SELECTOR SWITCH FUNCTIONS

POSITION	DESCRIPTION	240-5002	240-5003
COLOR SELECT	Supplies air to all color select switches	X	
OFF	Stops all air flow	X	
AIR	Supplies air to Air Push Valve	X	
SOL	Supplies air to Solvent Push Valve	X	
COLOR OFF	Off position for individual Color Select Valves (activates next valve)	X	
COLOR 1 - 5	Supplies air to corresponding Color Select Valve	X	
COLOR OFF	Off position for individual Color Select Valves (activates next valve)		X
COLOR 6 - 10	Supplies air to corresponding Color Select Valve		X
COLOR OFF	Off position for individual Color Select Valves (activates next valve)		X
COLOR 7 - 15	Supplies air to corresponding Color Select Valve		X

OUTPUT PORT FUNCTIONS

All ports are for 1/4 inch OD tubing.

POSITION	DESCRIPTION	240-5002	240-5003
501	Main Air Supply Inlet	X	
CS2	Supply Air for Add-on Selector Box	X	X
C/R	Run Input on Operator Panel of Flush Box	X	
MA1	Activation Air for Air Push Valve	X	
MS1	Activation Air for Solvent Push Valve	X	
HV6	High Voltage on Signal Air (to pneumatic control panel)	X	
CL1 - CL5	Activation air for corresponding individual Color Select Valves	X	
CL6 - CL15	Activation air for corresponding individual Color Select Valves		X

240-5002 & 240-5003 PARTS LIST**240-5002 Color Select Box (Master)****240-5003 Color Select Box (Add-on)**

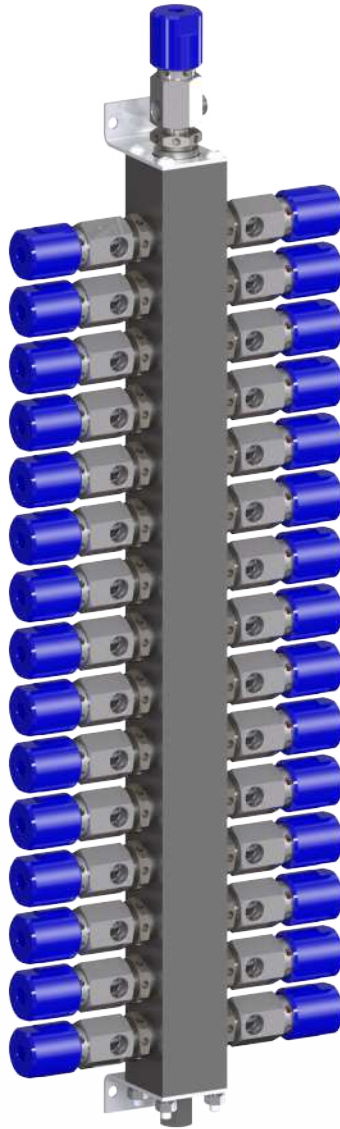
240-5002 & 240-5003 PARTS LIST

COLOR SELECT BOXES				
ITEM NO.	POSITION	DESCRIPTION	240-5002	240-5003
1	LPNE0005-01	COLOR SELECT ENCLOSURE	1	1
2	41-FP-1011	PLUG, #10-32	3	1
3	41-FTP-1023	CONNECTOR FITTING 5/32 TUBE X 10-32	11	13
4	41-BAS-1000	LOGIC BASE	1	–
5	41-VAP-1004	AIR PILOTED VALVE, "NOT" LOGIC (NO)	1	–
6	41-FTP-1015	TUBE REDUCER, 5/32" X 1/4"	10	11
7	41-VMC-1002	MANUAL CONTROL VALVE (3 WAY, 6 POSITION)	2	2
8	41-FBH-1000	BULKHEAD FITTING, 1/4" TUBE	11	11
9	LS0079	DIN RAIL, 6" LENGTH	1	–
10	LSMM0051-00	FOAM MOUNTING TAPE, 1" WIDTH	1	–
11	41-FTP-1050	"Y" TUBE FITTING, 1/4" MALE X 5/32" FEMALES	1	–
12	41-PLG-1001	TUBE PLUG, 1/4"	2	–
13	SSH-7739	SHEET METAL PLUG, 7/8" DIA.	1	1

ACCESSORIES

LOW PRESSURE PNEUMATIC COLOR CHANGE VALVE STACKS

MODELS: 240-51XX
SERVICE MANUAL: 77-3118
1 TO 31 VALVES AVAILABLE



240-5131 Shown
31 Valves

ACCESSORIES

LOW PRESSURE PNEUMATIC COLOR CHANGE VALVE

**MODEL: CCV-503-SS
SERVICE MANUAL: 77-3117**



NOTES

NOTES

WARRANTY POLICY

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

For specific warranty information please contact Binks.

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China	Tel: +8621-3373 0108 Fax: +8621-3373 0308	
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