

Binks

IntelliFlow™ RCS3

Gear Pump Driven Plural Component Proportioner



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IntelliFlow RCS3

Experience True Consistent Flow

Binks IntelliFlow RCS3 sets a new benchmark for precise, electronically controlled, gear pump driven mixing and metering. Engineered for speed and reliability, it delivers instant trigger response and a smooth, uniform finish—eliminating the “winking” spray pattern common in piston pump systems.

Compatible with both solvent- and waterborne coatings, the IntelliFlow RCS3 integrates seamlessly into manual or automated setups, supporting single or multiple applicators. Its 15-inch touchscreen interface offers intuitive operation, while built-in cloud connectivity provides real-time remote monitoring and diagnostics for maximum efficiency and uptime.



Features:



Accurate, consistent proportioning:

RCS3 offers 5 different size DLC coated gear pumps for both A and B side. All System packages provides user-friendly system and recipe setup screen, intuitive run mode screen, on screen alarm description and troubleshooting guide.



Instantaneous response time:

50 milleseconds on ratio response time brings unparallel finishing quality to your production.



Flushable color and catalyst pumps:

RCS3 is specifically designed to accommodate fast flushing and material change on both resin and hardener side, with minimum material waste.



Modular color changer with air/solvent purge:

RCS3 offers a graphical display for optimizing color change, flush, and load sequences. Different flushing volume and times can be programmed for every recipe. Gear pumps are fully compatible with air-solvent chop for a more thorough purging and cleaning.



Ultimate system flexibility:

The RCS3 system is compatible with rotary atomizers, bells, disks, and both electrostatic and non-electrostatic spray guns. It can function as a stand-alone two-channel unit or be expanded to control up to eight fluid channels through a single main controller.

Designed for flexibility, the RCS3 integrates seamlessly into both automatic and manual multi-applicator setups. The system can be configured for flow and ratio control with automatic spray guns, or in ratio-only mode for manual or handheld applications.

IntelliFlow

RCS3 Overview:

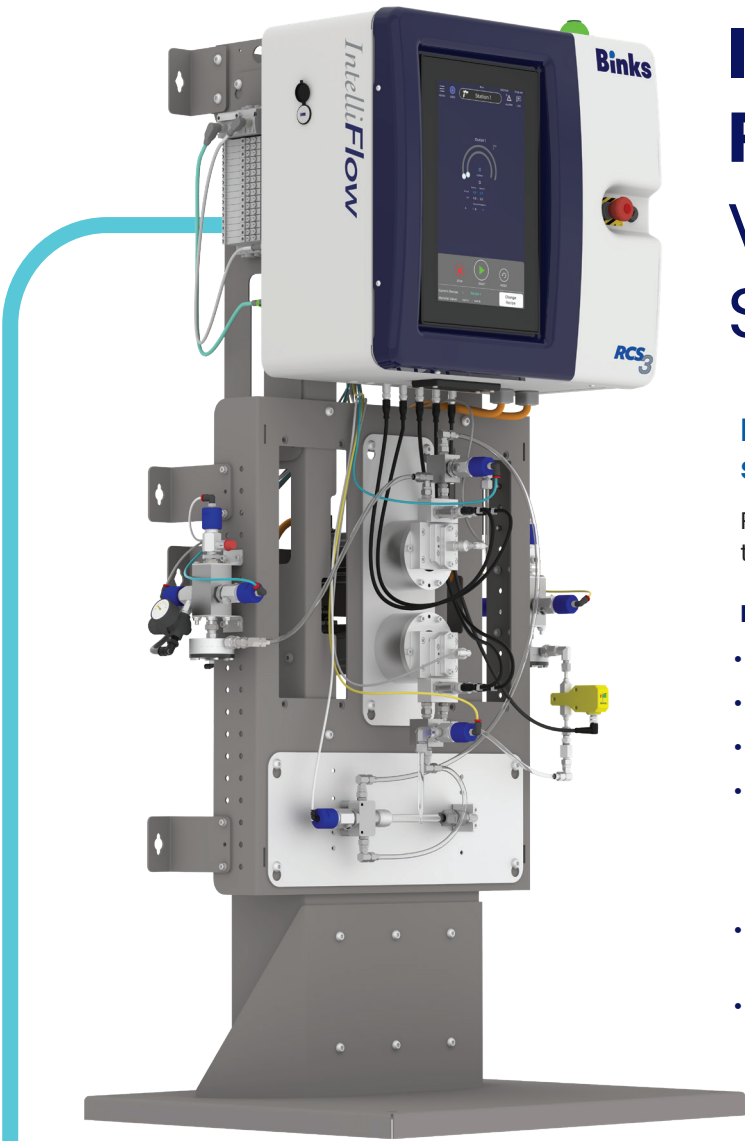
Versatility for Any Spray Application

Build your own system or standard 2K packages available:

Preconfigured packages include everything necessary to get up and running.

Build your own systems offer the following:

- 1K, 2K and 3K capability
- Up to 100 colors + hardeners
- Up to 250 recipes
- Flushable gear pump on both color and catalysts sides
 - Available gear pump sizes on A and B sides include 0.3 cc/rev, 1.2 cc/rev, 3 cc/rev, 6 cc/rev and 10 cc/rev (All DLC coated)
- 300 cc/min and 600 cc/min PD pump available on the C side
- Cloud remote operation and monitoring



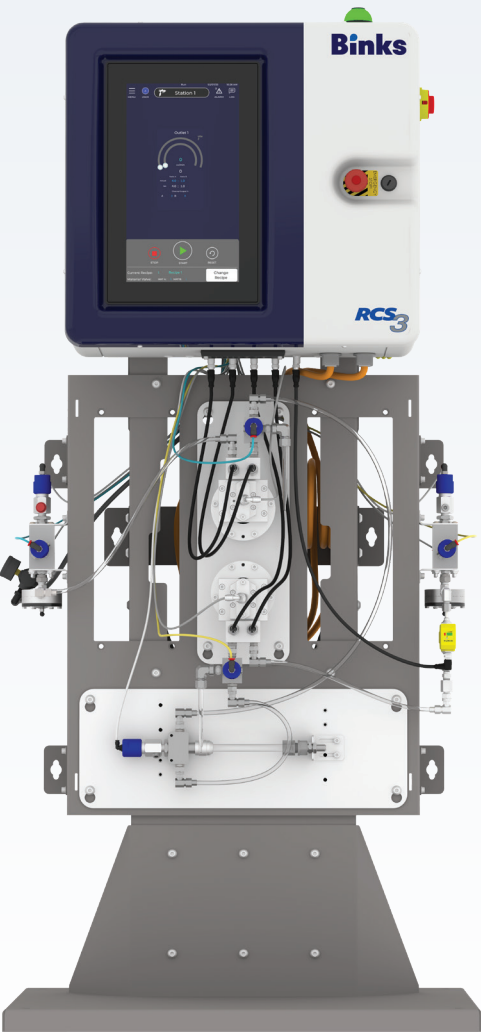
Legacy RCS2 vs. IntelliFlow RCS3

	RCS2	RCS3
Flushing	Flushable only on color side	Flushable on both color and catalyst sides
Calibration	Calibration at applicator	Calibration on pump or at applicator
Capability	1K and 2K, up to 8 channels	1K, 2K, and 3K, up to 8 channels
Number of Color and Catalysts	Up to 10 colors and catalysts	Up to 100 colors and catalysts
Recipe	99	250
Interface	Windows based interface	Modern intuitive app like interface
Remote operation & monitoring	Not Available	Full remote monitoring and operation capability

Build Your Own System

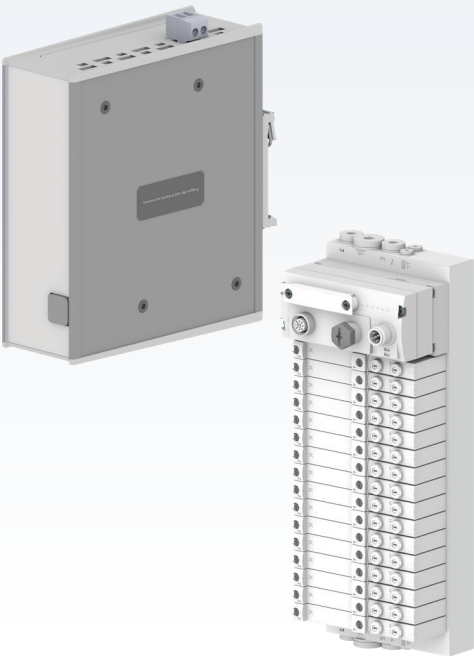
An orderable part number in the format of RCS3-XX-XXXX-XXXX will be generated based on your selection.

Step 1: Select Controller & Main Fluid



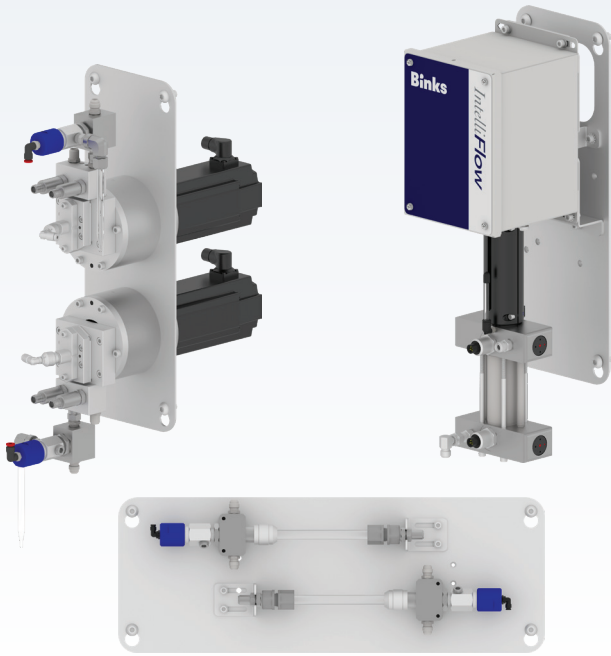
Part #	Description (main controller includes one 32 solenoid bank)
810-A200	RCS3 Controller and Fluid Frame, Main 2K
810-A300	RCS3 Controller and Fluid Frame, Main 3K
810-C200	RCS3 Controller and Fluid Frame, Auxillary 2K
810-C300	RCS3 Controller and Fluid Frame, Auxillary 3K

Step 2: Select Controller Add-on



Part #	Description
310-4142	Ethernet I/P
310-4143	Profinet
310-4144	Devicenet
310-4145	CC-Link
310-4146	EtherCat
310-4164	Modbus
310-4930	Discrete I/O
310-4051	Solenoid bank add on kit (Additional 32, cabinet mount)
810-2813-32	Wall mounted solenoid bank w/ECAT, 32 solenoid
810-2813-64	Wall mounted solenoid bank w/ECAT, 64 solenoid
310-6171	Wifi module with antenna

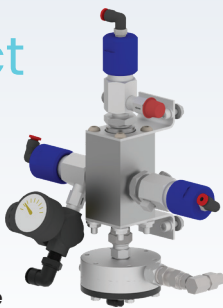
Step 3: Select Pump & Mixing Module



Part #	Description
A & B side pump selection (Select one each for A & B side)	
810-8000-1	Gear pump, 0.3 cc/rev, 3-60 cc/min
810-8000-2	Gear pump, 1.2 cc/rev, 12-240 cc/min
810-8000-3	Gear pump, 3 cc/rev, 30-600 cc/min
810-8000-4	Gear pump, 6 cc/rev, 60-1200 cc/min
810-8000-5	Gear pump, 10 cc/rev, 100 - 2000 cc/min
C side pump selection	
310-3300-051	300 CC dispense pump fluid module
310-3300-052	600 CC dispense pump fluid module
Mixing module selection	
310-3800-11	2K mixing module
310-3802-13	3K mixing module

Step 4: Select Color & Catalyst

Resin stack include one valve for solvent and one valve for air. Catalyst stack include one valve for solvent.



Part #	Description
310-6501-0311	Total 3-valve resin stack, LP air push, auto regulator
310-6501-0611	Total 6-valve resin stack, LP air push, auto regulator
310-6501-0911	Total 9-valve resin stack, LP air push, auto regulator
310-6501-1211	Total 12-valve resin stack, LP air push, auto regulator
310-6501-1411	Total 14-valve resin stack, LP air push, auto regulator
310-6502-0201	Total 2-valve catalyst stack, no air push, auto regulator
310-6502-0301	Total 3-valve catalyst stack, no air push, auto regulator
310-6502-0501	Total 5-valve catalyst stack, no air push, auto regulator

Accessories

Part #	Description
310-2002	Floor stand kit
240-5203	Remote color change kit – 7 recipe
310-5203	Remote color change kit – 14 recipe
240-5205-1	Gun flush box kit, 1 gun
240-5205-2	Gun flush box kit, 2 gun
240-3198-X	Flush box saddle – DVX
13742-01	Air flow switch
240-5189	Air cut off valve
310-8030	Screen protector kit

Standard Automatic 2K Packages

Standard Package	Communication	Fluid Channels	Colors Amt.	Catalyst Amt.	A Side Pump	B Side Pump
RCS3-11-4802-01C1	Ethernet I/P included	2K	1	1	6 cc/rev, 60 – 1200 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-4802-04C1	Ethernet I/P included	2K	4	1	6 cc/rev, 60 – 1200 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-4802-07C2	Ethernet I/P included	2K	7	2	6 cc/rev, 60 – 1200 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-4802-12C4	Ethernet I/P included	2K	12	4	6 cc/rev, 60 – 1200 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-4702-01C1	Ethernet I/P included	2K	1	1	6 cc/rev, 60 – 1200 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-4702-04C1	Ethernet I/P included	2K	4	1	6 cc/rev, 60 – 1200 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-4702-07C2	Ethernet I/P included	2K	7	2	6 cc/rev, 60 – 1200 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-4702-12C4	Ethernet I/P included	2K	12	4	6 cc/rev, 60 – 1200 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-4602-01C1	Ethernet I/P included	2K	1	1	6 cc/rev, 60 – 1200 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-4602-04C1	Ethernet I/P included	2K	4	1	6 cc/rev, 60 – 1200 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-4602-07C2	Ethernet I/P included	2K	7	2	6 cc/rev, 60 – 1200 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-4602-12C4	Ethernet I/P included	2K	12	4	6 cc/rev, 60 – 1200 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-3802-01C1	Ethernet I/P included	2K	1	1	3 cc/rev, 30 – 600 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-3802-04C1	Ethernet I/P included	2K	4	1	3 cc/rev, 30 – 600 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-3802-07C2	Ethernet I/P included	2K	7	2	3 cc/rev, 30 – 600 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-3802-12C4	Ethernet I/P included	2K	12	4	3 cc/rev, 30 – 600 cc/min	3 cc/rev, 30 – 600 cc/min
RCS3-11-3702-01C1	Ethernet I/P included	2K	1	1	3 cc/rev, 30 – 600 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-3702-04C1	Ethernet I/P included	2K	4	1	3 cc/rev, 30 – 600 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-3702-07C2	Ethernet I/P included	2K	7	2	3 cc/rev, 30 – 600 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-3702-12C4	Ethernet I/P included	2K	12	4	3 cc/rev, 30 – 600 cc/min	1.2 cc/rev, 12 – 240 cc/min
RCS3-11-3602-01C1	Ethernet I/P included	2K	1	1	3 cc/rev, 30 – 600 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-3602-04C1	Ethernet I/P included	2K	4	1	3 cc/rev, 30 – 600 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-3602-07C2	Ethernet I/P included	2K	7	2	3 cc/rev, 30 – 600 cc/min	0.3 cc/rev, 3 – 60 cc/min
RCS3-11-3602-12C4	Ethernet I/P included	2K	12	4	3 cc/rev, 30 – 600 cc/min	0.3 cc/rev, 3 – 60 cc/min

Technical Specifications:



IntelliFlow RCS3	
Ratio Range	1:1 to 100:1
Ratio Tolerance	±1%
Capability	1K, 2K and 3K (with positive displacement pump)
Viscosity Range of Fluid	1 cPs–3000 cPs
Max Number of Resin	Up to 100
Max Number of Catalyst/Hardener	Up to 100
Fluid Pressure	250 psi, 145 psi with flow sensor
Resin Flow Rate	3–2000 cc/min
Catalyst/Hardener Flow Rate	3–2000 cc/min
Total Flow Rate Range	6–4000 cc/min
Flow Tolerance	±1%
Trigger Response Rate	50 ms (material and flow rate dependent)
Wetted Parts	Stainless steel, PTFE, Perfluoro elastomer, UHMW Polyethylene
Isocyanate Catalyst Compatible	Yes
Communication Protocol	Discrete, Ethernet, Profinet, Device Net, CC Link, EtherCat, Modbus
No. of Recipes/Jobs	250
Weight	Approx. 300 lb
Dimensions	Width 32", Depth 28", Height 74.65"



Experience the difference.

Binks is a leading global manufacturer of products and systems for the supply, application and curing of sprayed and dispensed materials. Binks serves a variety of industries, including automotive, pharmaceuticals, food and beverage, and manufacturing. With decades of experience, Binks continues to set the standard for precision, reliability, and innovation in fluid technology solutions.



For more information,
visit binks.com.



A powerful solution can start with a simple conversation

We want to help build the best solution to your application challenges. Learn more about what we can offer by reaching out to the office nearest you.

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Form No. 03-559B-01