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binks.com/support/resource-library

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RM2



Obey local or municipal regulations for product recycling and disposal.

ABOUT THIS MANUAL

ITS PURPOSE

The purpose of this manual is to help you get the most value from your Binks IntelliFlow™ system. It can help you to determine how to install, operate, maintain, and repair your equipment. It provides information and procedures for routine maintenance and servicing and offers diagnostic and repair procedures to follow when trouble occurs.

ITS CONTENTS

This manual is divided into Chapters, each of which is divided into consecutively numbered Sections.

Chapters will contain text, images, tables, or a combination of them.

Pages with images will have paragraphs and sentences with callout numbers that refer to their respective images, steps, and parts.

Procedures, once described in the text, are not normally repeated. When it is necessary to refer to another Chapter or Section, the reference will be given as Chapter and Section number. Cross references given without the use of the word “Chapter” apply to Sections or paragraphs in the current Chapter.

Chapter 02 Table of Contents.

Chapter 03 EU Declaration of Conformity: A mandatory document the manufacturer signs to declare the product complies with the EU requirements.

Chapter 04 Safety: Safety, hazard, and warning rules.

Chapter 05 Spare Parts: Contains component views and spare parts tables.

Chapter 06 Manual Change Summary: Revisions and changes made to this manual.

Chapter 07 Warranty: Your equipment's warranty.

WHO SHOULD USE THIS GUIDE

This guide is intended for users with different levels of knowledge and experience with this system:

Installers: The person(s) who will locate and install this equipment.

Users: The person(s) who will learn how to operate this equipment.

Servicers: The person(s) who will service and maintain this equipment.

This guide assumes all persons who will install, use, operate, and service this equipment have some knowledge of the product and its operating system.

For information on the installation of this equipment, refer to RM2 Installation Manual 77-3153-1.

For information on the operation of this equipment, refer to RM2 Operation Manual 77-3153-2.

For information on the servicing and repair of this equipment, refer to RM2 Service Guide 77-3153-3.

For information on accessory kits and spare parts of this equipment, refer to RM2 Kit Instructions & Spare Parts Manual 77-3153-4.

MANUAL DISCLAIMER

All current and applicable certifications shown in this manual confirm Binks' adherence to the strict standards met to obtain the required regulatory compliances.

This manual was prepared with the most accurate information current at the time of publishing. Binks does not accept responsibility for errors in, or omissions from, the information contained herein.

Please get in touch with your distributor or Binks Customer Service for additional service information and assistance.

RM2 RELATED MANUALS & PUBLICATIONS	
Part Number	Description
77-3150	Coriolis Flow Meter
77-3153-1	RM2 Installation Manual
77-3153-2	RM2 Operation Manual
77-3153-3	RM2 Service Guide
77-3154	Standard Flow Meter
77-3159	Screen Protector Kit
77-3160	Gun Flush Box Kit
77-3162	IntelliFlow Air Manifold
77-3166	IntelliFlow Pulse Valve Manual
77-3167	IntelliFlow 300 & 600cc Dispense Pump Manual

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03 EU DECLARATION OF CONFORMITY

Product Description / Object of Declaration:	IntelliFlow RM2	
This Product is designed for use with:	Solvent & Waterbased Materials	
Suitable for use in hazardous area:		
Protection Level:	Not Applicable	
Notified body details and role:	TUV SUD America Inc, 141 14th St NW, New Brighton, MN 55112 USA. Cert Nos NC72170733.1 INTERTEK Testing Services NA, 545 E. Algonquin Rd, Arlington, IL 60005 USA. Cert Nos. 104972588MIN-003, 104972588MIN-002 US/9413/ITS-A1/M2.	
	Low Voltage and EMC Assessment	
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		CE
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:		
Machinery Directive 2006/42/EC EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU RoHS Directive 2011/65/EU by complying with the following statutory documents and harmonised standards: EN 60204-1:2018 Safety of Machinery. Electrical equipment of machines BS EN 61000-3-2:2014 Electromagnetic compatibility (EMC) - Limits - Limits for harmonic current emissions BS EN 61000-3-3:2013 Electromagnetic compatibility (EMC) - Limits - Limitation for voltage changes, voltage fluctuations, and flicker in public low-voltage supply systems EN 61000-6-2:2005/AC:2005 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments EN 61000-6-4:2007/A1:2011 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments. UL 61010-1:2012 Ed.3+R:2019/CSA C22.2#61010-1-12:2012 Ed.3+U1;U2;A1 Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements UL 61010-2-051:2019 Ed.4/CSA C22.2#61010-2-051:2019 Ed.4 Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2- 051: Particular Requirements for Laboratory Equipment for Mixing and Stirring KS C 9610-6-2:2019 EMC Immunity Testing of Industrial Environments KS C 9610-6-4:2017 EMC Emission Testing of Industrial Environments EN 63000: 2018 Technical documentation for the assessment according to REACH IEC 61010-1:2010+AMD1:2016 Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements. IEC 61010-2-051:2018 Safety requirements for electrical equipment for measurement, control and laboratory use. Particular requirements for laboratory equipment for mixing and stirring FCC 47 CFR Part 15-Radio Frequency Devices, Subpart B – Unintentional Radiators ICES-001, Issue 5:2020 Class A Industrial, Scientific, and Medical (ISM) Equipment		
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 6-3-25	Executive President: Engineering and Operations, Shoreview, MN, 55126. USA
Document Part No. EN		

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04 SAFETY

04.1 SAFETY PRECAUTIONS

Before the operation, maintenance, or servicing of this Binks system; fully read and understand all technical and safety literature for your product. This manual contains information that is important for you to know and understand.

This information relates to USER SAFETY and the PREVENTION OF EQUIPMENT PROBLEMS.

To help you understand this information, we use recognizable ANSI Z535 and ISO warning boxes and symbols throughout this manual. Please obey these safety sections.

⚠ DANGER

DANGER!: Indicates a hazardous situation that, if not avoided, will result in death or severe injury.

⚠ WARNING

WARNING!: Indicates a hazardous situation that, if not avoided, could result in death or severe injury.

⚠ CAUTION

Caution!: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury, or equipment damage.

NOTICE

Notice: Indicates information considered important but not hazard related.

SAFETY

Safety: Indicates a type of safety instruction, or a separate panel on a safety placard, where specific safety-related instructions or procedures are described.

Careful study and continued use of this manual will provide a better understanding of the equipment functions and procedures.

This understanding will result in improved operation, efficiency, and longer, trouble-free service with faster and easier troubleshooting. If you need the necessary safety literature for your specific system, contact your local Binks representative or Binks directly.

NOTICE

This manual lists standard specifications and service procedures. Differences can occur between this literature and your equipment.

Differences in local or municipal codes, manufacturer or plant requirements, material delivery requirements, and more can make variations unpreventable. To find these differences, compare this manual to your system installation drawings and other applicable Binks equipment manuals.

⚠ WARNING

The user **MUST** read and be familiar with the Safety Section in this manual and the safety literature therein identified.

Only trained personnel can operate this equipment.

All personnel who operate, clean, or maintain this equipment **MUST** fully read and understand this manual! To operate and service the equipment, follow all **WARNINGS** and safety requirements.

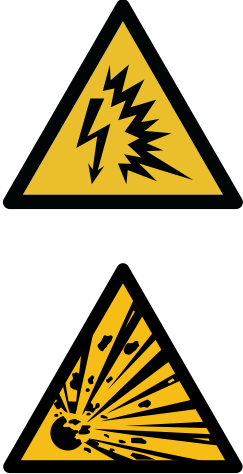
The user must be aware of and adhere to **ALL** local building and fire codes and ordinances, as well as NFPA 33 AND EN 16985 SAFETY STANDARDS, LATEST EDITION, or applicable country safety standards, before the installation, operation, or servicing of this equipment.

⚠ WARNING

The hazards shown on the pages that follow can occur during the normal use of this Binks equipment, but not all listed hazards will be applicable to your product model or equipment.

Repairs may only be performed by personnel authorized by Binks.

AREAS Indicate possible hazard occurrences.	HAZARDS Indicate possible hazards.	SAFEGUARDS Prevention of possible hazards.
Spray Areas  	Fire Hazards Improper or unsatisfactory operation and maintenance procedures will cause a fire hazard. If the safety interlocks are disabled during operation, protection against accidental arcing is shut off and can cause a fire or explosion. Frequent Power Supply or Controller shutdown identifies a problem in the system. For this occurrence, a correction will be necessary	Fire extinguishing equipment must be present in the spray area. Periodically run a test to make sure the equipment stays usable. Keep spray areas clean to prevent the build-up of combustible residues. Do not smoke in the spray area. The high voltage supplied to the atomizer must be turned off before the equipment is cleaned, flushed or maintained. Spray booth ventilation must be kept at the rates as set by NFPA-33, OSHA, country, local, and municipal codes. If flammable or combustible solvents are used to clean the equipment, ventilate the area. Prevent electrostatic arcing. Maintain spark-safe work distance between the parts that get coated and the applicator. A span of one inch for every 10KV of the output voltage is necessary. Do an equipment test only in areas free of combustible material. The test may necessitate the high voltage to be on, but only as instructed. Non-factory replacement parts or unauthorized equipment modifications can cause a fire or injury. The key switch bypass is used only during setup operation. Do no production work with disabled safety interlocks. Set up and operate the paint procedure and equipment under NFPA-33, NEC, OSHA, local, municipal, country, and European Health and Safety Norms.

AREAS Indicate possible hazard occurrences.	HAZARDS Indicate possible hazards.	SAFEGUARDS Prevention of possible hazards.
Spray Areas 	Explosion Hazard Improper or unsatisfactory operation and maintenance procedures will cause a fire or explosion hazard. If the safety interlocks are disabled during operation, protection against accidental arcing is shut off and can cause a fire or explosion. Frequent Power Supply or Controller shutdown identifies a problem in the system. For this occurrence, a correction will be necessary.	Prevent electrostatic arcing. Maintain spark-safe work distance between the parts that get coated and the applicator. A span of one inch for every 10KV of output voltage is necessary. Unless specifically approved for use in hazardous locations, put all electrical equipment outside of Class I or II, Division 1 or 2 hazardous areas in accordance with NFPA-33, or outside of Zone 2 or Zone 22 in accordance with EN standards. If equipped, set the current overload sensitivity as described in the related section of the equipment manual. If incorrectly set, the current overload sensitivity for protection against accidental arcing is turned off and can cause a fire or explosion. Frequent power supply shutdown indicates a problem in the system, which requires correction. Always turn off the control panel power before the system is flushed, cleaned, or servicing the spray system equipment. Make sure no objects are within the spark-safe work distance before the high voltage is turned on. The control panel must interlock with the ventilation system and conveyor in accordance with NFPA-33, EN 50176. Fire extinguishing equipment must be present in the spray area. Periodically run a test to make sure the equipment stays usable. Do an equipment test only in areas free of combustible material.
General Use and Maintenance 	Improper or unsatisfactory operation and maintenance procedures will cause a fire hazard. Personnel must be correctly trained in the operation and maintenance of this equipment.	Train all personnel in accordance with the requirements of NFPA-33, EN 60079-0. Before equipment operation, personnel must read and understand these instructions and safety precautions. Obey appropriate local, municipal, state, and national codes governing ventilation, fire protection, operation maintenance, and housekeeping. Reference OSHA, NFPA-33, EN Norms, and your insurance company requirements.

AREAS Indicate possible hazard occurrences.	HAZARDS Indicate possible hazards.	SAFEGUARDS Prevention of possible hazards.
Spray Area High Voltage Equipment    	Electrical Discharge This equipment contains a high-voltage device that can cause an electrostatic induction on ungrounded objects. This electrical charge is capable of igniting coating materials. Insufficient ground will cause a spark hazard. A spark can ignite many coating materials and cause a fire or explosion.	Operators in the spray area and the parts to be sprayed must be sufficiently grounded. All conductive objects inside the spray area must be grounded. Hold the parts that get sprayed on conveyors or hangers that are correctly grounded. The resistance between the parts and the earth-ground must not be more than 1 MΩ. Refer to: NFPA-33. Before the equipment is operated, ground all operators. They cannot wear rubber-soled insulated shoes. Wear ground straps on wrists or legs for sufficient ground contact. Operators must not wear or carry ungrounded metal objects. When used, operators must make complete contact with the applicator handle and electrostatic gun. Use conductive gloves or gloves with the palm section cut out. Operators must wear grounded footwear. NOTE: REFER TO NFPA-33 OR SPECIFIC COUNTRY SAFETY CODES FOR GUIDANCE TO CORRECTLY GROUND THE OPERATOR. Except for objects needed for the high-voltage process, all electrically conductive objects in the spray area are to be grounded. Supply a grounded conductive floor in the spray area. Always turn off the applicator voltage before the system is flushed, cleaned, or when servicing the spray system equipment. Unless specifically approved for use in hazardous locations, put all electrical equipment outside of Class I or II, Division 1 or 2 hazardous areas in accordance with NFPA-33, or outside of Zone 2 or Zone 22 in accordance with EN standards. Do not install an applicator into a fluid system if the solvent supply is ungrounded. Do not touch an energized applicator electrode.

AREAS Indicate possible hazard occurrences.	HAZARDS Indicate possible hazards.	SAFEGUARDS Prevention of possible hazards.
Spray Areas 	Toxic Fluid or Fumes Toxic fluids or fumes can cause severe injury or death if splashed in the eyes or on the skin, or if inhaled or swallowed.	Read the Safety Data Sheet (SDS) for instructions to know and understand how to handle the specific hazards of the fluids used, and the effects of long-term exposure. During the spray, clean, or servicing of equipment, or when in the work area, keep the work area fully ventilated. Always wear personal protective equipment (PPE) when in the work area or during equipment operation. Refer to the Personal Protective Equipment warnings in this manual. Store hazardous fluid in approved containers and refer to local, municipal, state, and national codes governing the disposal of hazardous fluids.
Spray Area and Equipment Use 	High-pressure fluid sprayed from the gun, hose fittings, or ruptured/damaged components can pierce the skin. While this injury can appear as cut skin, this is a severe injury that can result in the amputation of the affected area.	Do not point or operate the spray gun at the body part of a person. Do not put your hand or fingers over the gun fluid nozzle or fittings in the hose or Proportioner. Do not try to stop or deflect leaks with your hand, glove, body, or shop rag. Do not “blowback” fluid, as the equipment is not an air spray system. Relieve pressure in the supply hoses, Proportioner, and QuickHeat™ hose before the equipment is inspected, cleaned, or serviced. Use the lowest possible pressure to recirculate, purge, or troubleshoot the equipment. Examine the hoses, couplings, and fittings every day. Service or immediately replace parts that leak, are worn, or are damaged. Replace high-pressure hose sections. They cannot be recoupled or serviced.

AREAS Indicate possible hazard occurrences.	HAZARDS Indicate possible hazards.	SAFEGUARDS Prevention of possible hazards.
Equipment and Fluids 	Skin and Clothing Burns Equipment surfaces and fluids can become very hot during operation.	Do not touch hot fluid or equipment during operation. Do not let clothing touch the equipment during operation or immediately after the equipment is stopped. Let the equipment fully cool before the examination or servicing of the component.
Pressurized Aluminum Parts    	The use of certain solvents and chemicals can cause equipment damage and severe personal injury.	Do not use 1,1,1-trichloroethane, methylene chloride or other halogenated hydrocarbon solvents or fluids that contain such solvents. These solvents can cause a severe chemical reaction and equipment rupture that results in equipment and property damage, serious bodily injury, or death.

AREAS Indicate possible hazard occurrences.	HAZARDS Indicate possible hazards.	SAFEGUARDS Prevention of possible hazards.
Spray Areas 	Do Not Touch The effect of paint flow rates and formulations on the quality of atomization can cause the turbines to rotate at high speeds.	Do not use a rag or gloved hand against the bell edge to stop or slow down a bell during rotation. Do not try to clean the bell edge during rotation.

⚠ CAUTION

Only operate the equipment after you have read this section.

04.2 ADDITIONAL SAFETY INFORMATION

The IntelliFlow has an emergency stop (E-Stop) pushbutton on the main operator panel. During an emergency, all operations for the IntelliFlow will halt when the E-Stop is engaged. The operator must disengage the E-Stop and reset the system to recover from this state.

Observe all local or municipal safety measures and wear approved protective equipment when servicing this equipment. Clean all spilled chemicals and materials and do all work in a clean and organized environment to prevent personal injury and equipment damage.

⚠ DANGER

To prevent injury or electrocution while the system is under power, do not contact, disconnect, or manipulate electrical connections or devices. The main disconnect on the right side of the controller can be locked out. Follow the proper Lockout–Tagout (LOTO) procedures for internal controller electrical work.

Only qualified electrical personnel can perform the work if diagnosis and troubleshooting are not possible during working conditions.

⚠ WARNING

To prevent possible chemical spillage when personnel are not on site, air and fluid supplies for the equipment must be disabled when the equipment idles for an extended period, such as an end-of-day shutdown.

NOTICE

During the initial commission of the equipment and at periodic times throughout equipment life, visually examine all fluid fittings for leaks.

Periodically, it is necessary to visually examine all pieces of this equipment for signs of noticeable degradation due to chemicals or other conditions in the equipment's environment.

SAFETY

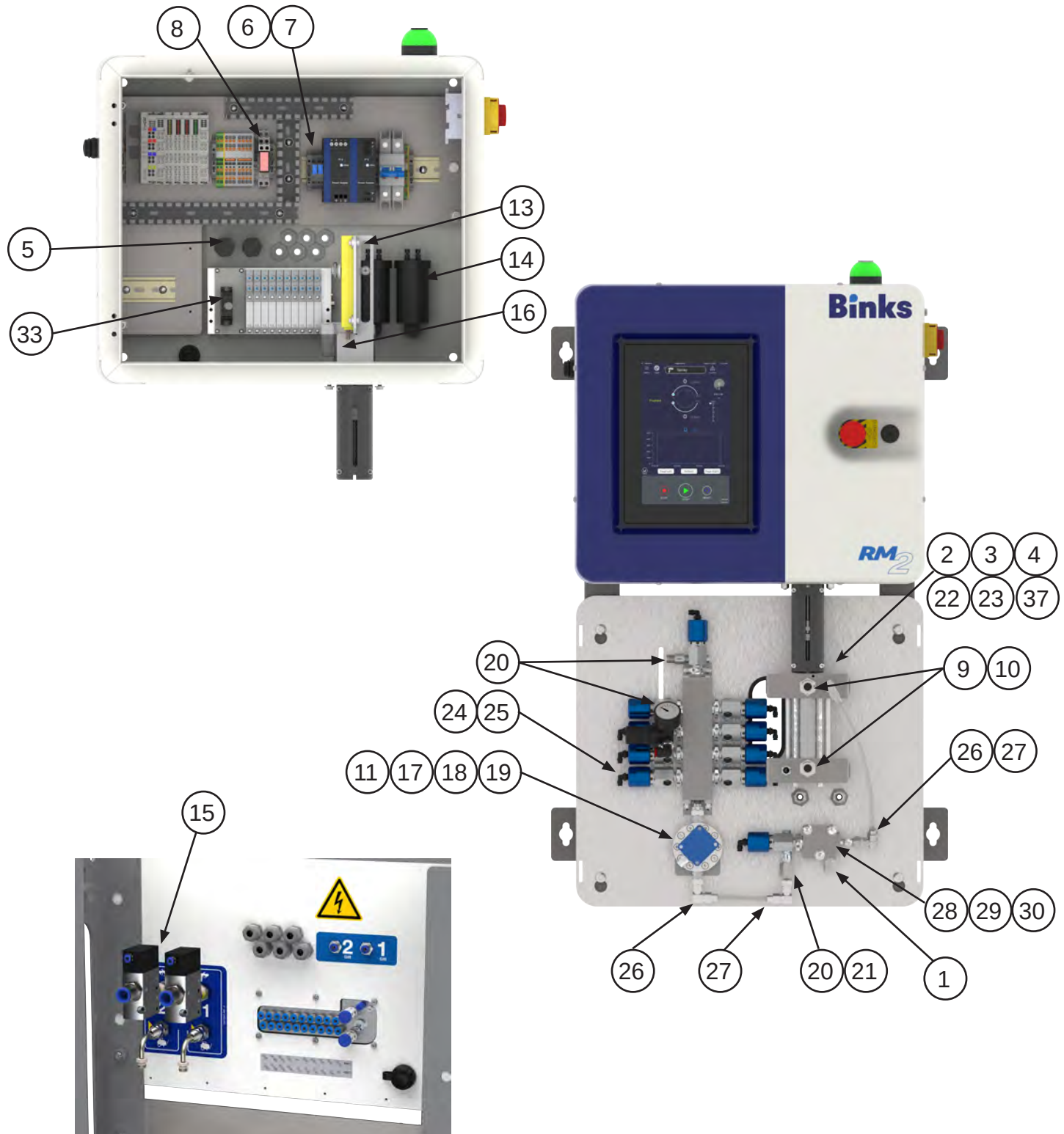
Obey local or municipal regulations that require installed fire suppression for equipment operation.

If the operation of this equipment, sensors, switches, or other ancillary equipment occurs in the presence of flammable gases and vapors, connect this equipment through intrinsic-safe or Zener barriers. Classify them as a 'simple apparatus' or approve them for use in these areas.

05 SPARE PARTS

The following chapter contains component views and spare parts tables for the RM2.

05.1 LOW PRESSURE COMPONENTS AND SPARES



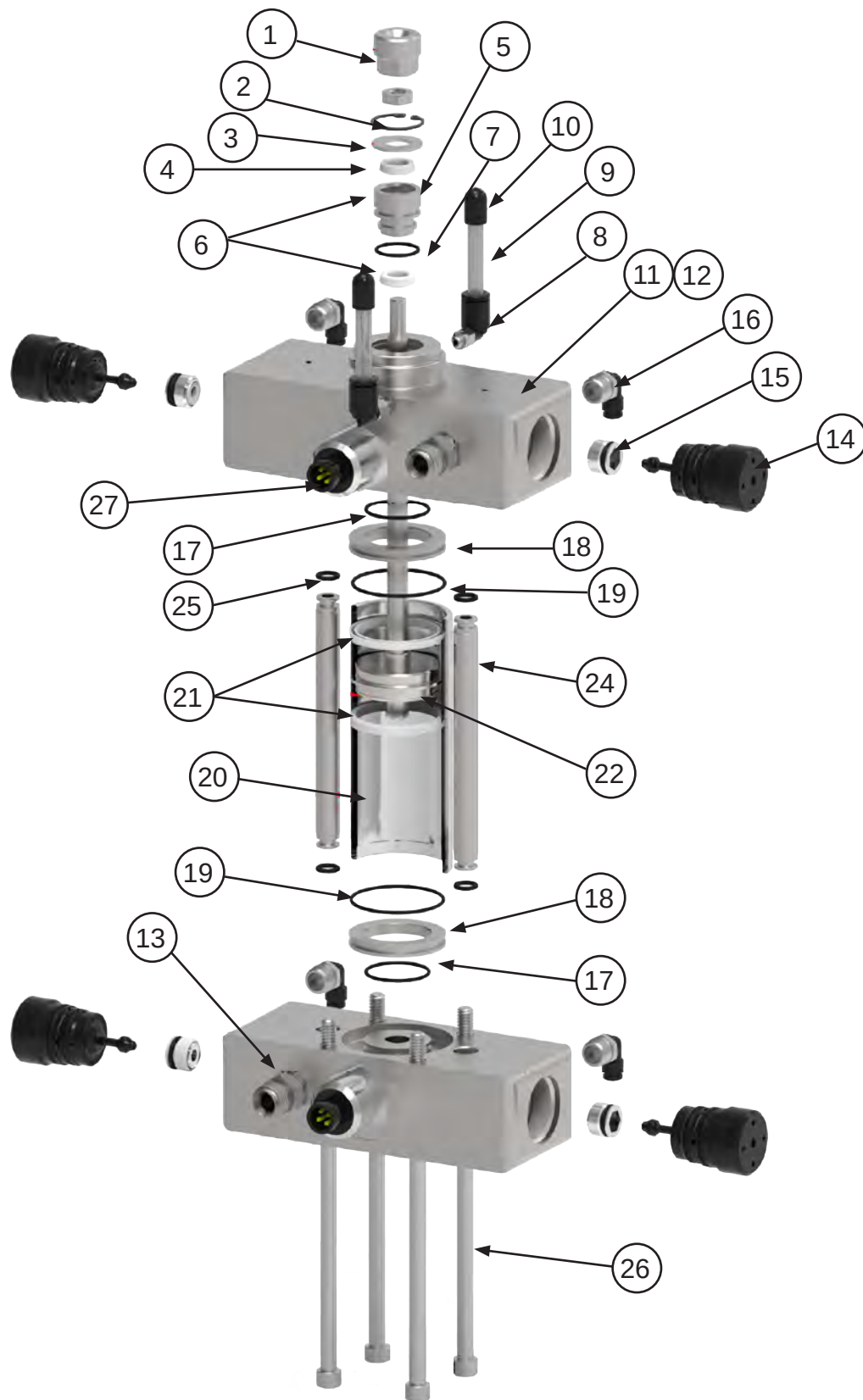
05.1 LOW PRESSURE COMPONENTS AND SPARES

Item #	Part #	Description	Quantity
1	240-3122-300	Mix block, 300 cubic centimeters	1
	240-3122-600	Mix block, 600 cubic centimeters	
2	240-5136-300	300 cubic centimeters dispense pump	1
	240-5136-600	600 cubic centimeters dispense pump	
3	240-5141	300 cubic centimeters dispense pump rebuild kit	1
4	240-5142	600 cubic centimeters dispense pump rebuild kit	1
5	240-5156	15 psi pressure switch	1
6	-	Circuit breaker, 2a	1
7	-	Circuit breaker, 3a	1
8	-	Safety relay	1
9	240-5186	0-500 psi pressure sensor	1
10	240-5187	M12 4-pin to leads, 2m	1
11	240-5188	M12 4-pin to leads, 2m	1
12	240-5241	Linear motor assembly	As Desired
13	240-3060	Linear pot bracket assembly	1
14	13742-01	Air flow switch	2
15	-	ACO valve assembly	2
16	240-5368	Stepper motor cable assembly	As Desired
17	310-9010	Flow meter body	1
18	310-9011	Dual probe pickup	1
19	310-9017-K5	Flow meter seal kit, 5 pack	1
20	SSV-809	Check valve	2
21	6SN-6CV	Check valve	1
22	77367-00	Seat assembly - MCV	4
23	78949-00	MCV calve assembly	4
24	CCV-503-SS	CCV valve	2
25	KK-4841	CCV repair kit	10
26	1414-SS-90-T	Fitting, 3/8 ODT x 1/4 NPS, 90	2
27	FEP-0604	Hose, 3/8 ODT x 1/4 ID	50ft

05.1 LOW PRESSURE COMPONENTS AND SPARES

28	240-5334	Mix block assembly	1
29	240-3124	Mix block repair kit	1
30	240-3047	Injector valve assembly	1
31	240-5154	Solenoid valve slice	2
32	A10756-00	Tool, MCV removal	1
33	-	JP - cord with connector	1
34	-	NA - cord with connector	1
35	-	UK - cord with connector	1
36	-	CN - cord with connector	1
37	-	EU - cord with connector	1
-	0114-016099	Throat seal lube, solvent-based	1
-	0114-016100	Throat seal lube, water-based	1

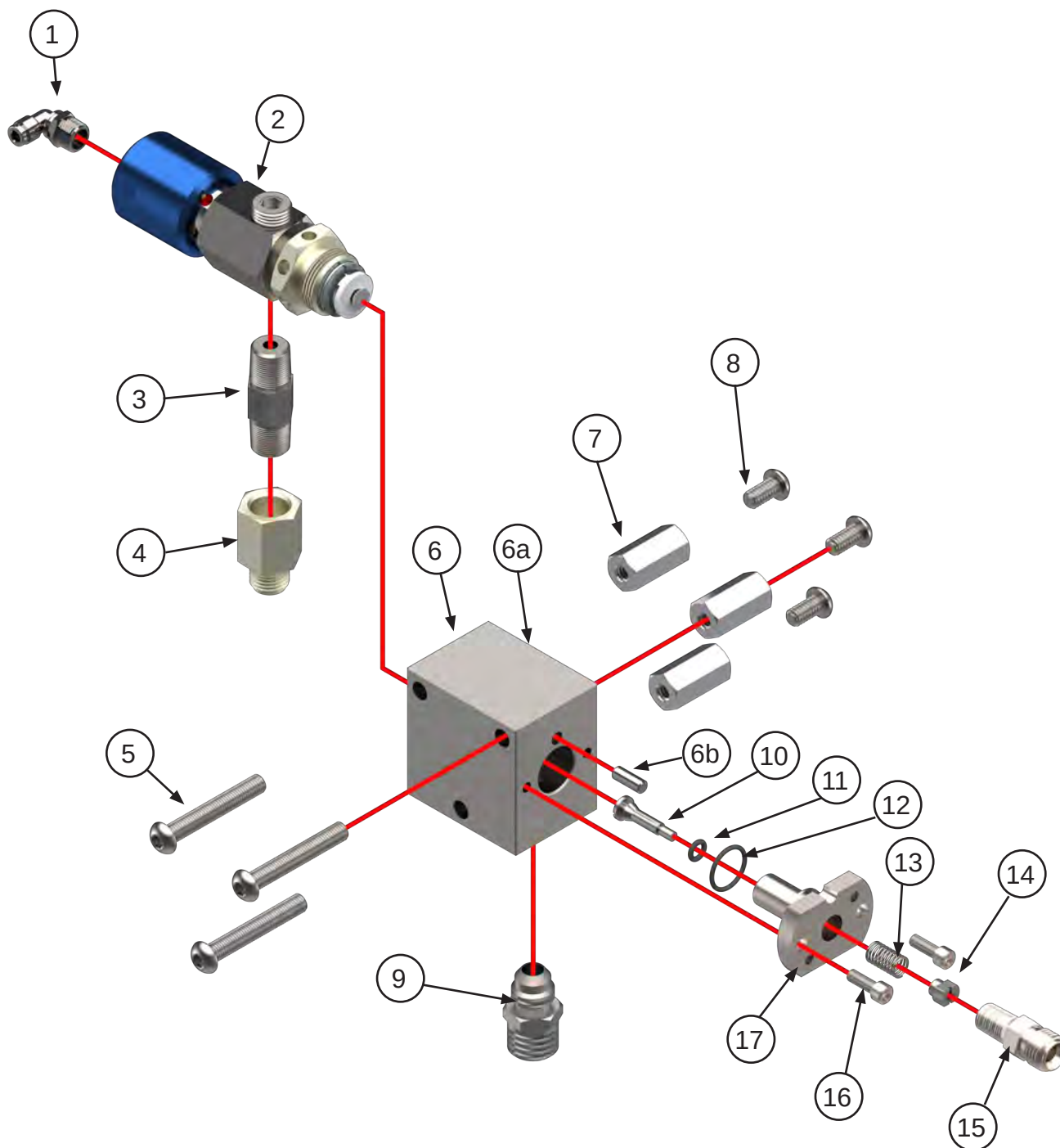
05.2 LOW PRESSURE DISPENSE PUMP COMPONENTS



05.2 LOW PRESSURE DISPENSE PUMP COMPONENTS

Item #	Part #	Description	Quantity
1	240-3020	Pump rod adapter	1
2	20-6953	Hex nut	1
3	-	Snap ring, internal	1
4	-	Flat washer	1
5	240-3084	Seal holder assembly	1
6	240-3211	Rod seal	1
7	79001-09	O-ring, 2-015, FFKM	2
8	-	Elbow, 10-32 x 1/4 inch ODT	1
9	FEP-0403	Teflon paint hose, 1/4 inch OD x 3/16 inch ID, 210 psi wp	2
10	-	1/4 inch ODT cap	2
11	-	Top block	1
12	-	Dowel pin, 3/16 DIA x 12 LG, SS	2
13	4T-4	Fitting, 1/4 inch NPS (M) x 1/4 inch NPT (M)	2
14	78949-00	MCV valve assembly	4
15	77367-00	Valve seat assembly, MCV	4
16	JML-532-2T	Male elbow, 1/8 NPT x 5/32 OD	4
17	79001-21	O-ring, 2-020, FFKM	2
18	240-3022	Cylinder adapter (600 cubic centimeters only)	2
19	79001-18	O-ring, 2-027, FFKM	2
20	240-3018-300	300 cubic centimeters cylinder	1
	240-3018-600	600 cubic centimeters cylinder	
21	240-3212-300	300 cubic centimeters piston seal	2
	240-3212-600	600 cubic centimeters piston seal	
22	240-3224-300	300 cubic centimeters rod and piston assembly	1
	240-3224-600	600 cubic centimeters rod and piston assembly	
23	-	Bottom block	1
24	-	Fluid tube	2
25	79001-05	O-ring, 2-010, FFKM	4
26	7959-176C	Socket head cap screw, 1/4-20 x 5.5 inch LG, 18-8	4
27	240-5186	Pressure transducer	2
-	0114-016099	Pump packing lube, 250 millimeter	1

05.3 LOW PRESSURE MIX BLOCK ASSEMBLY



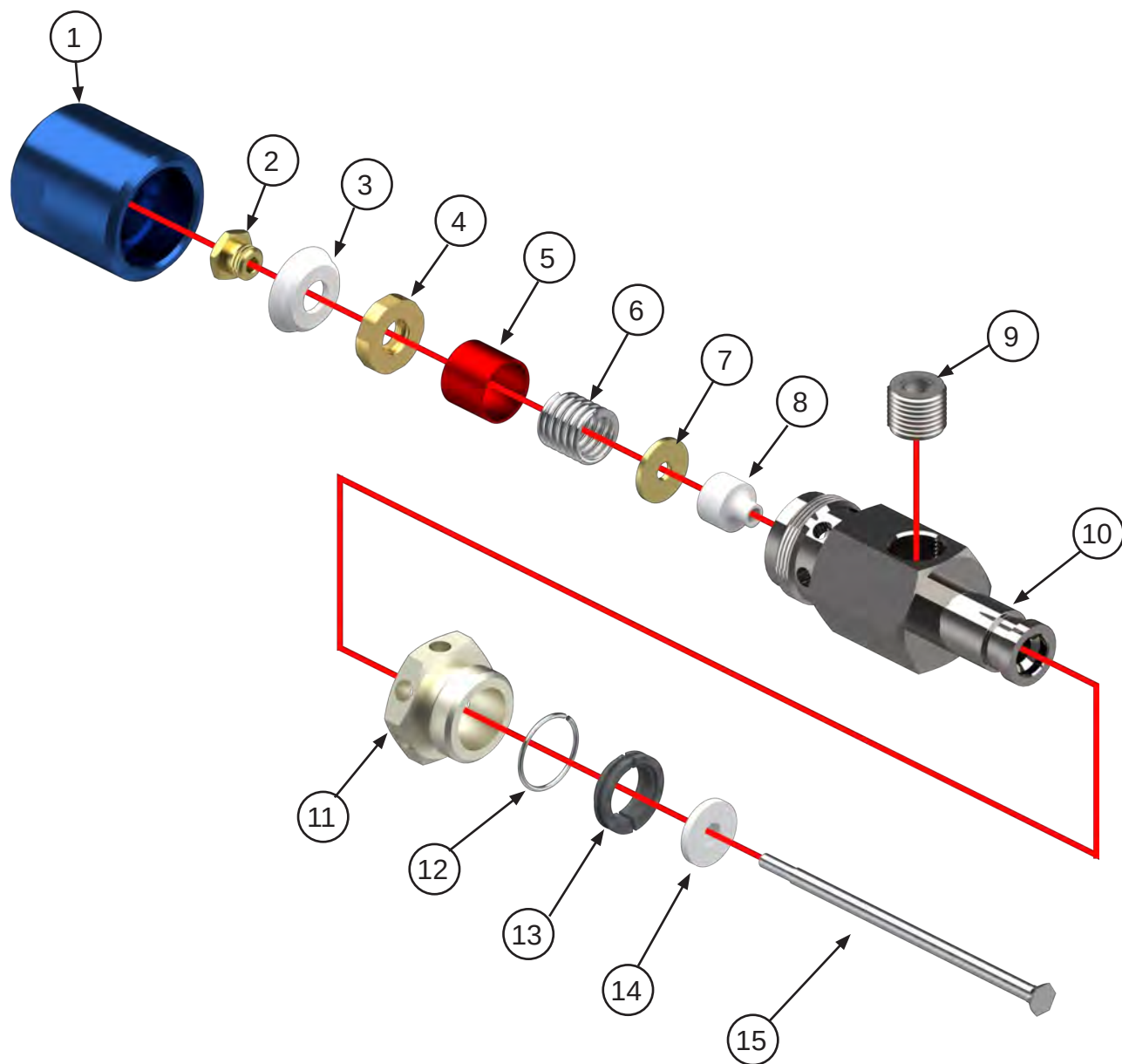
05.3 LOW PRESSURE MIX BLOCK ASSEMBLY

Item #	Part #	Description	Quantity	Notes
1	JML-532-2T	FTG BRA 5/32 OTD x 1/8 NPT (M) EL	1	
2	CCV-503-SS	Valve assembly (see next page)	1	14.9-17.6 N•m (132-156 inches-pounds)
3	SSV-809	Check valve	1	
4	4-4T(F)	Adapter, MM 1/8 NPT x 3/8 NPS	1	
5	77578-56C	Button head cap screw, 1/4-20 x 1 3/4 SS	3	
6	240-3049	Mix manifold assembly	1	
6a	-	Mix manifold	1	
6b	-	Dowel pin, 3/16 DIA x 1/2 LG, SS	1	
7	240-3155	Standoff, 1/4-20 hex	3	
8	77578-16C	Button head cap screw, 1/4-20 x 1/2 SS	3	
9	6-6JIC	3/8 NPS x 3/8 JIC	1	
10	240-3136	Valve stem	1	
11	79001-04	O-ring, 2-008, Perfluoro elastomer	1*	
12	79001-08	O-ring, 2-014, Perfluoro elastomer	1*	
13	240-3045	Spring, .750 long	1*	
14	240-3044	Retainer, spring	1	
15	4T-6	Nipple	1	
16	A12772-01	Screw, #10-24 x 1/2, SS	2	18-22.8 N•m (160-202 inch-pound)
17	240-3042	Body, injector	1	
-	SSL-10	Gun lubricant, DeVilbiss	1	
-	-	Thread sealant (Loctite 567)	♦	
-	-	Thread locker (Loctite 242)	♦	
-	-	Thread locker (Loctite 243)	♦	

* Included in fluid needle assembly 240-3124 (Mix Manifold Repair Kit).

♦ Customer supplied (not included with parts kits).

05.4 LOW PRESSURE COLOR CHANGE VALVE ASSEMBLY



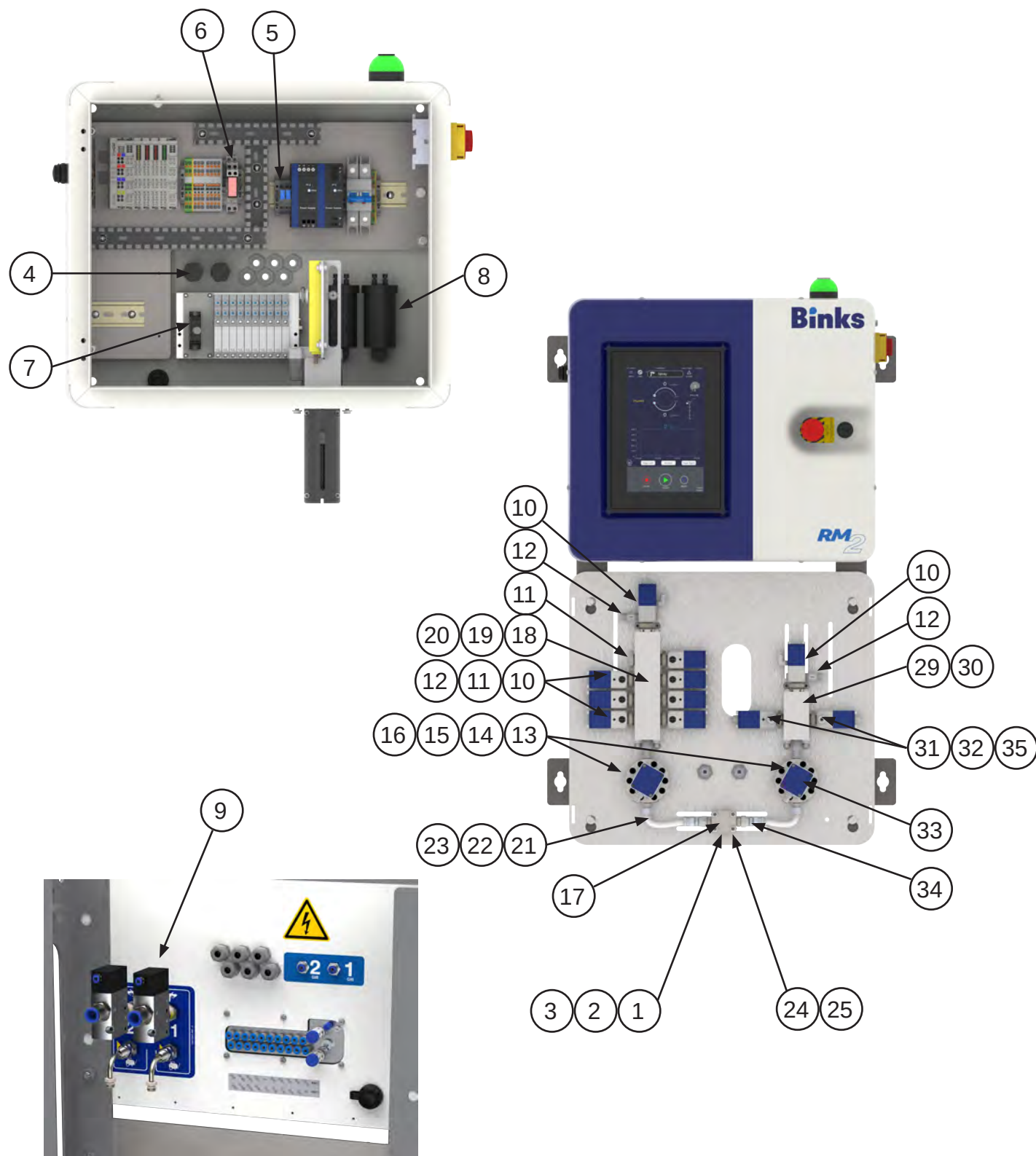
05.4 LOW PRESSURE COLOR CHANGE VALVE ASSEMBLY

Item #	Part #	Description	Quantity	Notes
1	CCV-43-1	End cap, aluminum, anodized blue	1	8.5-14.0 N•m (75-125 inch-pound)
2	CCV-45	Nut, clamping, brass	1*	0.2-0.5 N•m (2-4 inch-pound)
3	VA-246	Cup, sealing, Teflon	1*	
4	CCV-3	Nut, brass	1	1.4-2.0 N•m (12-18 inch-pound)
5	CCV-42	Valve indicator, aluminum, anodized red	1	
6	-	Spring	1	
7	CCV-4	Washer, flat, spring	1	
8	CCV-8	Seal, valve needle	1*	
9	SSP-1421	Pipe plug, 1/4	1	
10	240-2039	Valve body	1	
11	CCV-13	Spanner nut	1	
12	240-2032	Spring clip	1*	
13	240-2030	Split collar	1	
14	CCV-40	Poppet seat	1*	
15	CCV-39	Stem	1*	
-	-	Synthetic grease (super lube)	1	
-	-	Thread lubricant, anti-seize	1	

* Included in repair kit KK-5094

See service manuals 77-2983 and 77-3117 for complete assembly instructions.

05.5 MEDIUM PRESSURE COMPONENTS (ACID CATALYST)



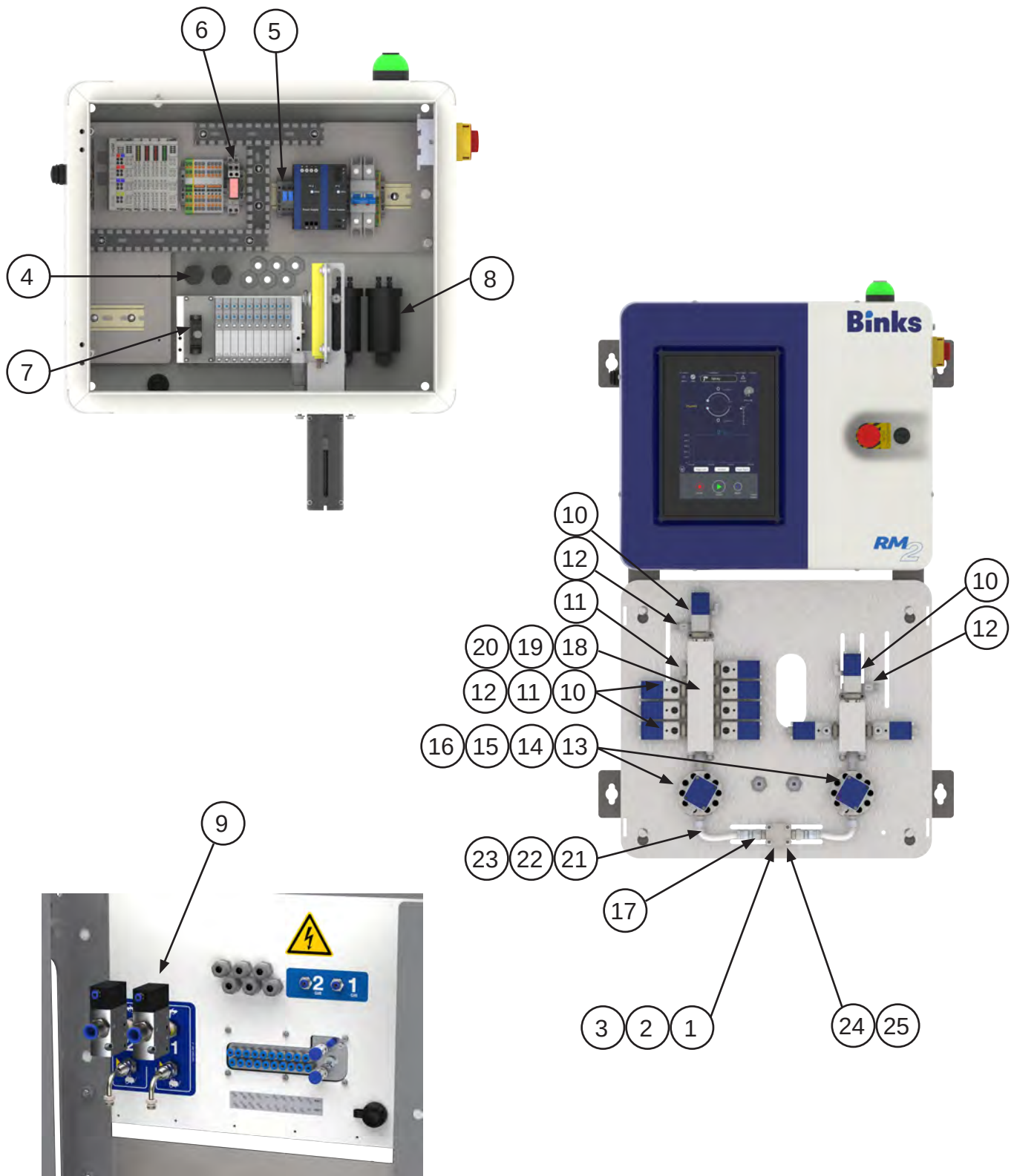
05.5 MEDIUM PRESSURE COMPONENTS (ACID CATALYST)

Item #	Part #	Description	Quantity
1	240-3231	Static mixer, medium-pressure assembly	1
2	72-727	Adapter, 1/8 inch NPT (F) x 1/4 inch NPS (M)	1
3	240-3234	Adapter, 6JIC (M) X 1/8 NPT (F)	1
4	240-5156	15 psi pressure switch	1
5	-	Circuit breaker kit 1077 1P, plug 2A	2
6	-	Safety relay	1
7	240-5154	Solenoid module, Festo	2
8	13742-02	Air flow switch	2
9	-	ACO (air cut off) valve assembly	2
10	240-2012	CCV	11
11	KK-4370	Plug kit	11
12	SSV-809	Check valve	4
13	240-5188	M12 4-pin to leads, 2m	2
14	310-9010	Flow meter body	1
15	310-9011	Dual probe pickup	1
16	310-9017-K5	Flow meter seal kit, 5 pack	1
17	-	Body check valve, medium pressure, 3/8 NPS x 5/8-18 (M)	2
18	CCV-17-SS	Manifold inlet block	2
19	CCV-16-SS	Manifold center block	3
20	CCV-18-SS	Manifold block outlet	2
21	4-6JIC	Fitting, 1/4 inch NPS (M) x 3/8 inch JIC (M)	2
22	PDHC-04-K-012	Hose, stainless steel, braided	2
23	6SN-4	Adapter, mixing block, high pressure	2
24	240-5360	Mix block assembly	1
25	240-5358	Injector valve, high-pressure assembly	2
26	A10756-00	Tool, MCV removal (not shown)	1
27	-	JP - cord with connector (not shown)	1
28	-	NA - cord with connector (not shown)	1
29	CCV-17-SS-AC	Manifold inlet block, 316 liter	1
30	CCV-18-SS-AC	Manifold block outlet, 316 liter	1
31	CCV-21-AC	Hex port plug, 316 liter	1
32	CCV-19	Plug/gasket (not shown)	1
33	310-9002	Flow meter, acid catalyst	1
34	240-5358-AC	AC check valve, medium-pressure assembly	1
35	240-2061	Pulse valve assembly	2

05.5 MEDIUM PRESSURE COMPONENTS (ACID CATALYST)

36	-	UK - cord with connector (not shown)	1
37	-	CN - cord with connector (not shown)	1
-	0114-016099	Throat seal lube, solvent-based	1
-	0114-016100	Throat seal lube, water-based	1

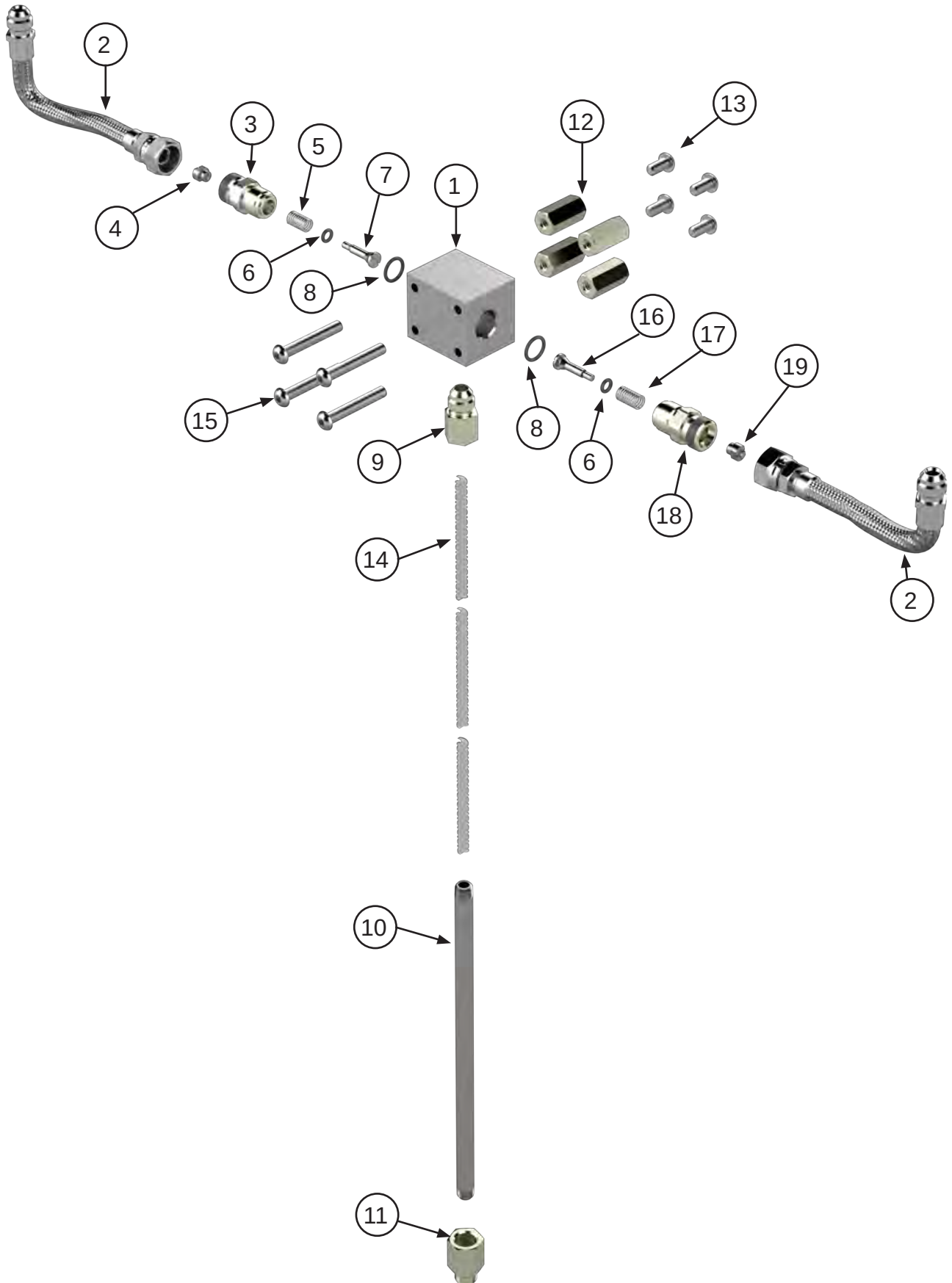
05.6 MEDIUM PRESSURE COMPONENTS (STANDARD CATALYST)



05.6 MEDIUM PRESSURE COMPONENTS (STANDARD CATALYST)

Item #	Part #	Description	Quantity
1	-	Static mixer, medium-pressure assembly	1
2	72-727	Adapter, 1/8 inch NPT (F) x 1/4 inch NPS (M)	1
3	240-3234	Adapter, 6JIC (M) X 1/8 NPT (F)	1
4	240-5156	15 psi pressure switch	1
5	-	Circuit breaker kit 1077 1P, plug 2A	2
6	-	Safety relay	1
7	240-5154	Solenoid module, Festo	2
8	13742-01	Air flow switch	2
9	-	ACO (air cut off) valve assembly	2
10	240-2012	CCV	11
11	KK-4370	Plug kit	11
12	SSV-809	Check valve	4
13	240-5188	M12 4-pin to leads, 2m	2
14	310-9010	Flow meter body	1
15	310-9011	Dual probe pickup	1
16	310-9017-K5	Flow meter seal kit, 5 pack	1
17	22-863-3	Body check valve, medium pressure, 3/8 NPS x 5/8-18 (M)	2
18	CCV-17-SS	Manifold inlet block	2
19	CCV-16-SS	Manifold center block	3
20	CCV-18-SS	Manifold block outlet	2
21	4-6JIC	Fitting, 1/4 inch NPS (M) x 3/8 inch JIC (M)	2
22	-	Hose, stainless steel, braided	2
23	6SN-4	Adapter, mixing block, high pressure	2
24	240-5360	Mix block assembly	1
25	240-5358	Injector valve, high-pressure assembly	2
26	A10756-00	Tool, MCV removal (not shown)	1
27	-	JP - cord with connector (not shown)	1
28	-	NA - cord with connector (not shown)	1
29	-	UK - cord with connector (not shown)	1
30	-	CN - cord with connector (not shown)	1
-	0114-016099	Throat seal lube, solvent-based	1
-	0114-016100	Throat seal lube, water-based	1

05.7 MEDIUM PRESSURE MIX BLOCK ASSEMBLY (ACID CATALYST)

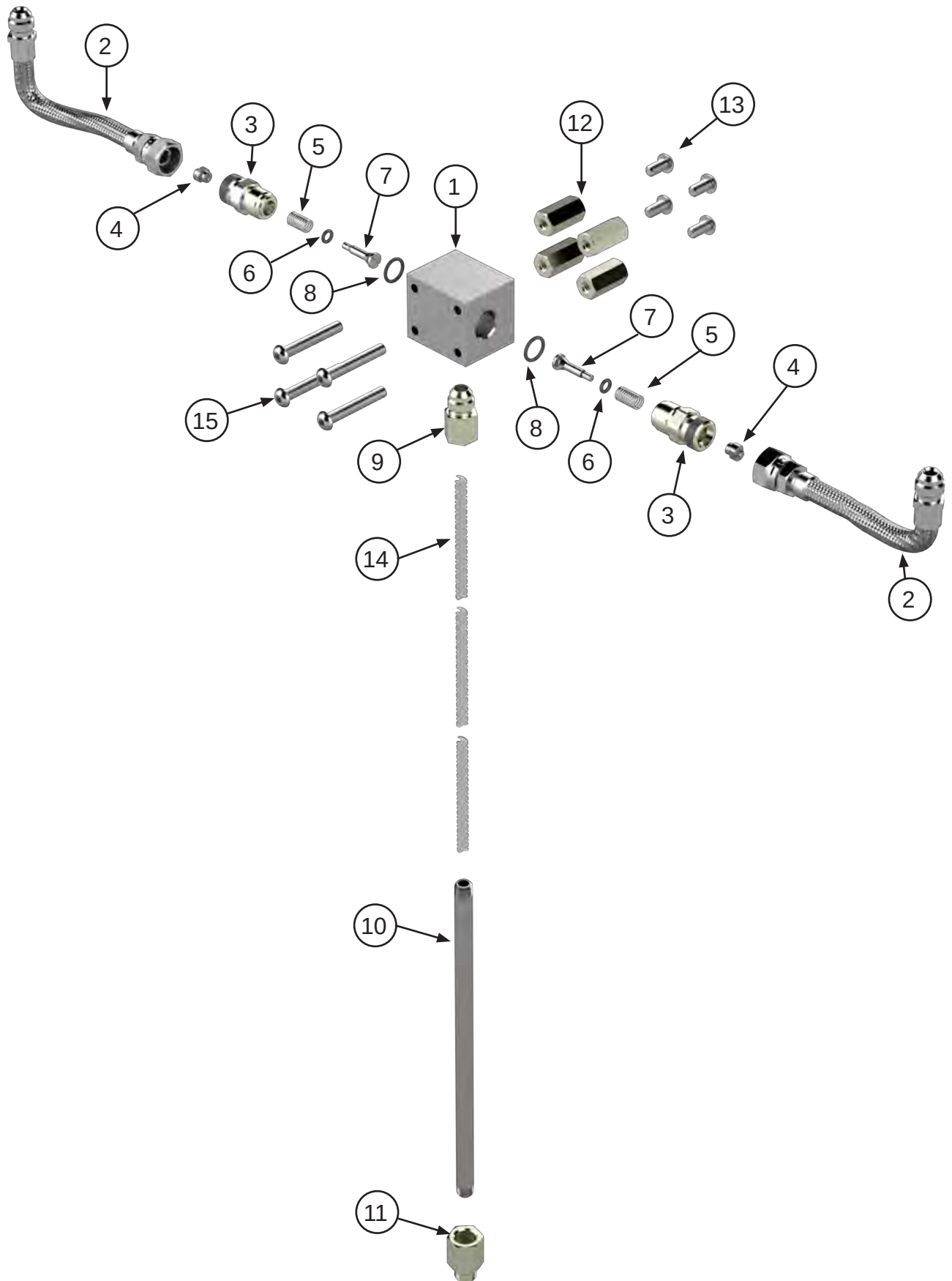


05.7 MEDIUM PRESSURE MIX BLOCK ASSEMBLY (ACID CATALYST)

Item #	Part #	Description	Quantity	Notes
1	-	Mix manifold housing	1	
2	-	1/4 NOMID X 12 inch OAL W-4SS FNPS	2	
3	22-863-3	Body check valve, medium pressure, 3/8 inch	2	61-68 N•m (45-50 pound-foot)
4	240-3044	Retainer, spring	2	
5	240-3045	Spring	2	
6	79001-04	O-ring, 2-008, Perfluoro elastomer	2*	
7	240-3136	Valve stem	2	
8	79001-07	O-ring, 2-013, Perfluoro elastomer	2*	
9	240-3234	Adapter, 6JIC (M) x 1/8 NPT (F)	1	
10	240-3232	Static mixer tube, SS	1	
11	72-727	Adapter, NPT	1	
12	240-3155	Standoff, hex, 1/4-20	4	
13	77578-16C	Socket head cap screw, SS, 1/4-20	4	
14	240-3135-01	Element, disposable mixer, .248 OD x 3 inch	3	
15	77578-56C	Button head cap screw, 1/4-20 x 1.75 inch, SS	4	
16	240-3136-AC	Valve stem 316 liter	1	
17	240-3154-1	Spring, .75 inch stainless	1*	
18	22-863-3-AC	Body check valve, 3/8 NPS x 5/8-18, 316 liter	1	61-68 N•m (45-50 pound-foot)
19	240-3044-AC	Retainer, spring, 316 liter	1	
-	SSL-10	Gun lubricant, DeVilbiss	1	
-	-	Thread sealant (Loctite 567)		◆
-	-	Thread locker (Loctite 242)		◆
-	-	Thread locker (Loctite 243)		◆

◆ Customer supplied (not included with parts kits).

* Included in MP Mix Manifold Repair Kit (240-5247).

05.8 MEDIUM PRESSURE MIX BLOCK ASSEMBLY (STANDARD CATALYST)

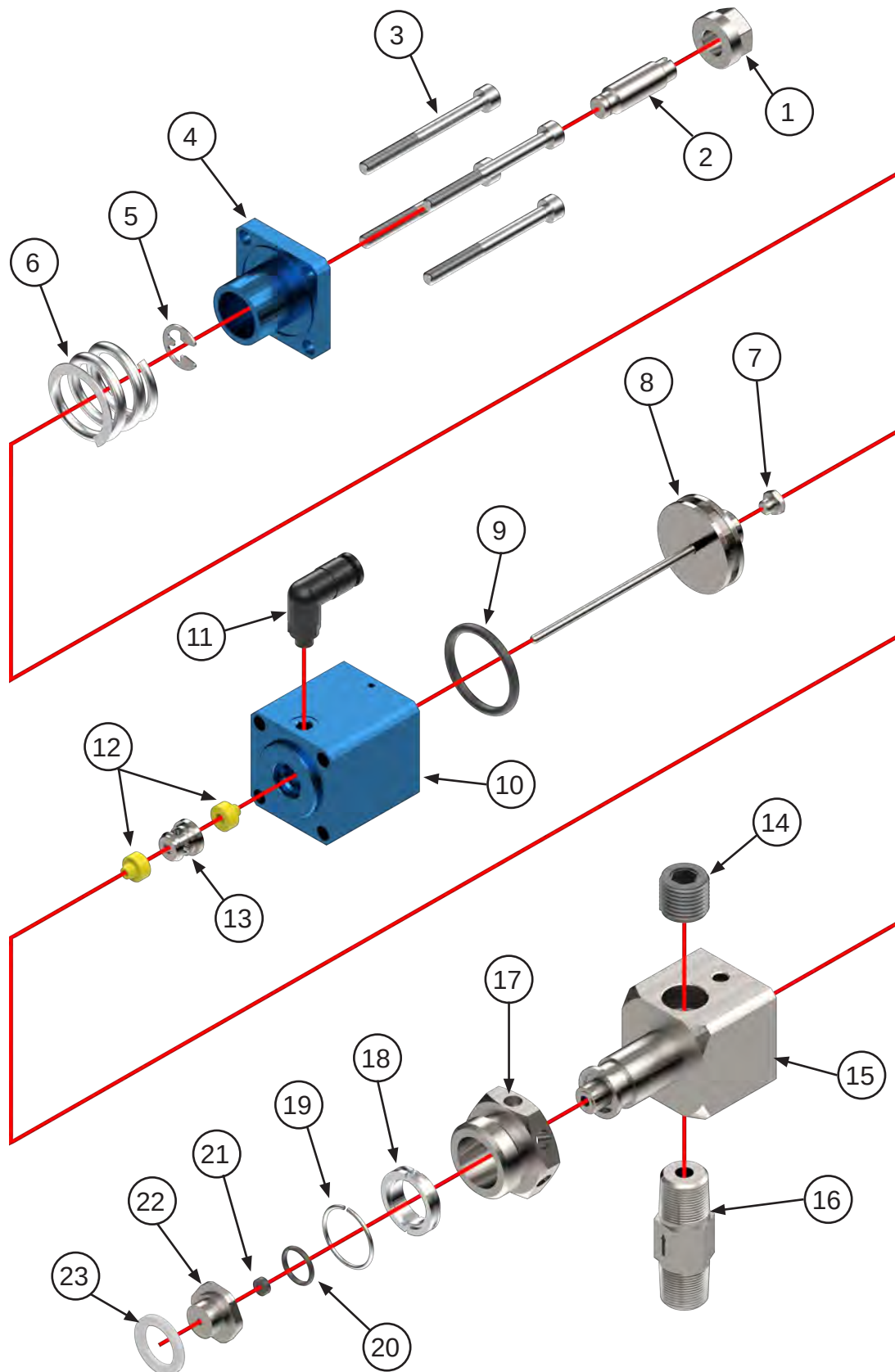
05.8 MEDIUM PRESSURE MIX BLOCK ASSEMBLY (STANDARD CATALYST)

Item #	Part #	Description	Quantity	Notes
1	-	Mix manifold housing	1	
2	-	1/4 NOMID X 12 inch OAL W-4SS FNPS	2	
3	22-863-3	Body check valve, medium pressure, 3/8 inch	2	61-68 N•m (45-50 pound-foot)
4	240-3044	Retainer, spring	2	
5	240-3045	Spring	2*	
6	79001-04	O-ring, 2-008, Perfluoro elastomer	2*	
7	240-3136	Valve stem	2	
8	79001-07	O-ring, 2-013, Perfluoro elastomer	2*	
9	240-3234	Adapter, 6JIC (M) x 1/8 NPT (F)	1	
10	240-3232	Static mixer tube, SS	1	
11	72-727	Adapter, NPT	1	
12	240-3155	Standoff, hex, 1/4-20	4	
13	77578-16C	Socket head cap screw, SS, 1/4-20	4	
14	240-3135-01	Element, disposable mixer, .248 OD x 3 inch	3	
15	77578-56C	Button head cap screw, 1/4-20 x 1.75 inch, SS	4	
16	240-5247	Mix block repair kit (includes two each of parts 5, 6, and 8) (not shown)	1	
-	SSL-10	Gun lubricant, DeVilbiss	1	
-	-	Thread sealant (Loctite 567)		♦
-	-	Thread locker (Loctite 242)		♦
-	-	Thread locker (Loctite 243)		♦

*Included in Mix Manifold Repair Kit (240-5247). The kit contains a stainless steel version of item 5.

♦ Customer supplied (not included with parts kits).

05.9 MEDIUM PRESSURE CCV PULSE VALVES



05.9 MEDIUM PRESSURE CCV PULSE VALVES

Item #	Part #	Description	Quantity	Notes
1	-	Lock nut	1	
2	-	Adjustment knob	1	
3	240-2026	Socket head cap screw, SS, M4 x .7 x 45	4	2-2.5 N•m (18-22 inch-pound)
4	240-2017	End cap, 303	1	
5	240-2036	E-25 retaining ring	1*	
6	240-2037	Spring, return, high pressure	1*	
7	240-2060	Pulse bumper	1*	
8	240-2013	Fluid needle assembly	1	
9	SPA-122X	O-ring, 21.89 millimeter x 2.62 millimeter, Viton Extreme	1*	◇
10	240-2016	Cylinder body, aluminum, anodized	1	
11	-	Quick connect pneumatic elbow, 90°	1	
12	240-2025	Needle seal	2*	◇
13	240-2035	Seal spacer	1	
14	SSP-1421	Plug, pipe coated, socket head	1	
15	240-2022-1	Valve head	1	
16	SSV-809	Check valve	1	
17	CCV-13	Spanner nut, stainless steel, nickel plated	1	‡
18	240-2030	Split collar	1	
19	240-2032	Spring clip	1	
20	240-2047	Housing seal	1*	
21	-	Seal, needle	1	
22	240-2044-AC	Seat housing, acid compatible	1	
23	240-2057	Seal, square profile	1	
—	SSL-10	Gun lubricant, DeVilbiss	1	
—	—	Thread sealant (Loctite 567)		◆

◇ Items included in seal kit 240-2048

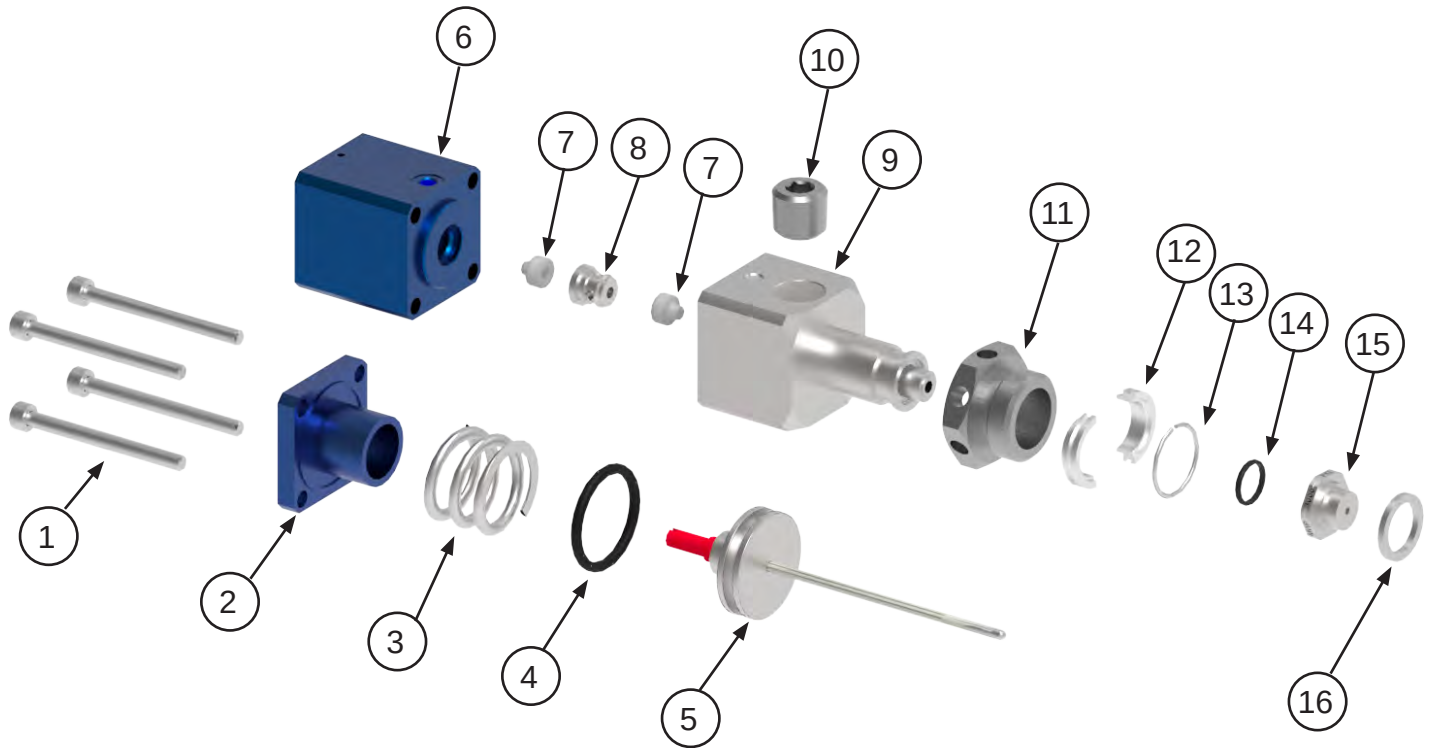
◆ Customer supplied (not included in repair kit).

‡ Optional spanner tool CCV-7 (sold separately) or use 27 millimeter (SAE 1 1/16 inch) wrench.

* Included in Pulse Valve Repair Kit (240-2062).

See service manual 77-3120 for complete assembly instructions.

05.10 MEDIUM PRESSURE COLOR CHANGE VALVE ASSEMBLY



05.10 MEDIUM PRESSURE COLOR CHANGE VALVE ASSEMBLY

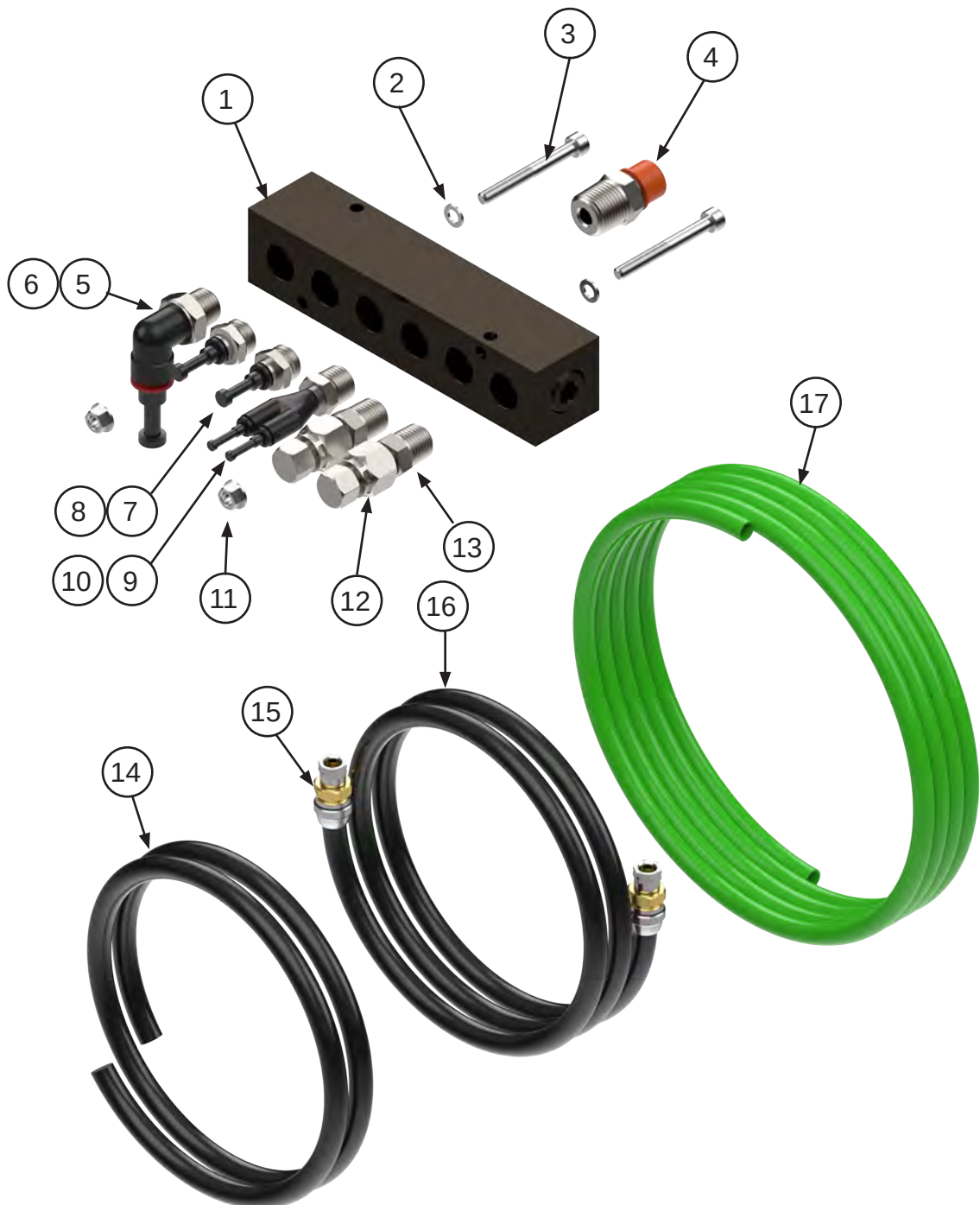
Item #	Part #	Description	Quantity	Notes
1	240-2026	M4 x .7 x 45 socket head cap screw SS, 4-pack	4	
2	240-2017	End cap	1	
3	240-2037	Return spring	1	
4	SPA-122X	O-ring	1	‡ ♦
5	240-2013-K	Fluid needle assembly	1	‡
6	240-2016	Body	1	
7	240-2025-K2	Needle seal, 2-pack	1	♦
8	240-2035	Seal spacer	1	
9	240-2022-1	Valve head	1	
10	SSP-1421	Pipe plug, 1/4 inch	1	
11	CCV-13	Spanner nut	1	
12	240-2030	Split collar	1	
13	240-2032	Spring clip	1	
14	240-2047	Housing seal	1	◇
15	240-2044-AC	Seat assembly	1	◇
16	240-2057	Seal	1	◇

‡ Included in kit 240-2013-K.

♦ Included in seal kit 240-2048.

◇ Included in seal kit 240-2049 for 240-2012.

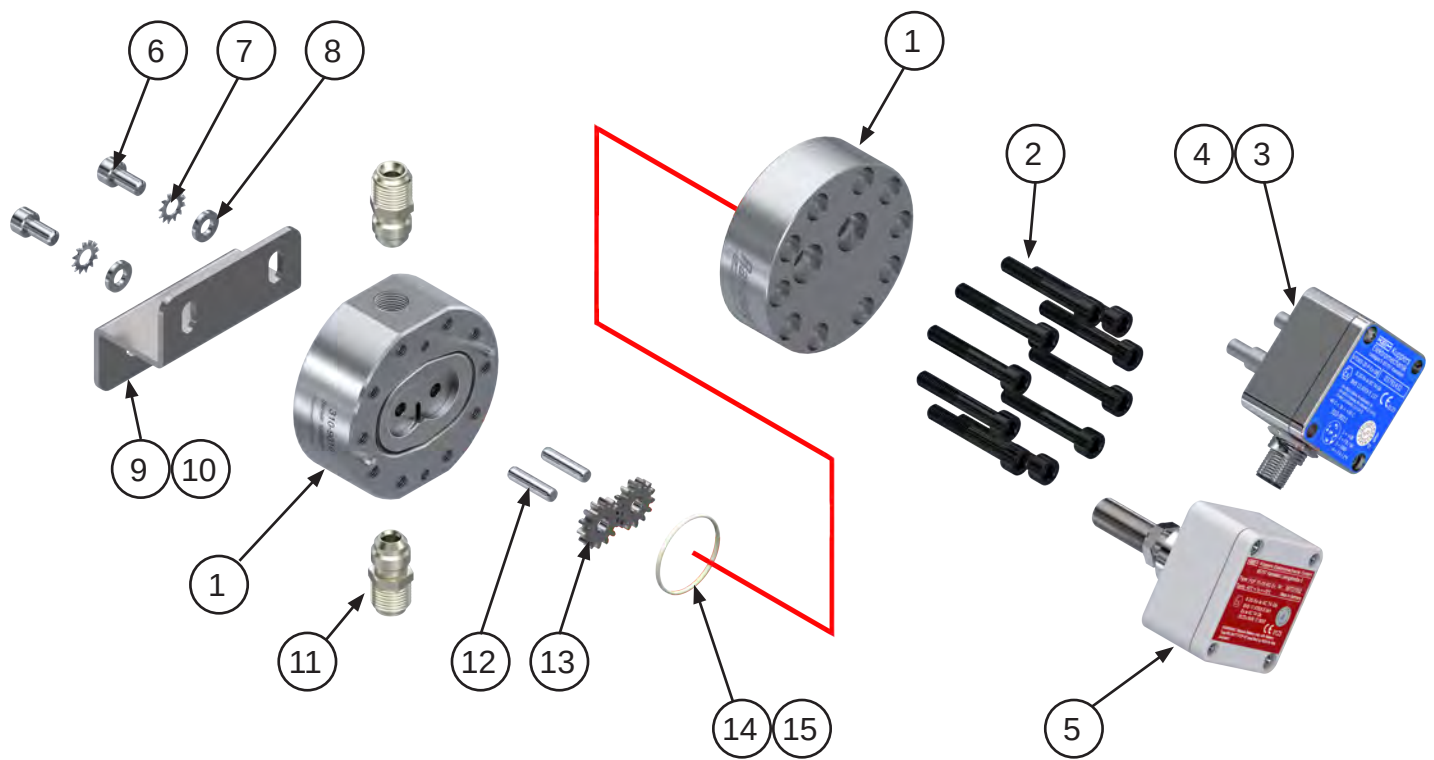
05.11 MEDIUM PRESSURE AIR MANIFOLD



05.11 MEDIUM PRESSURE AIR MANIFOLD

Item #	Part #	Description	Quantity	Notes
1	310-3904	Air manifold	1	
2	-	Flat washer, M5, 18-8	2	
3	-	Socket head cap screw, M5 x 0.8, 45 millimeter, 18-8	2	
4	6T-4	3/8 NPT (M) x 1/4 NPS (M)	1	
5	JML-38-4T	Fitting, elbow, 1/4 NPT (M) x 3/8 ODT	1	
6		Block-off fitting, air tube, 10 millimeter	1	Remove to insert air tube
7	20-7093	Push-in fitting, 1/4 NPT X 1/4 OD	2	
8		Block-off fitting, air tube	2	Remove to insert air tube as needed
9	20-7094	Push-in Y-fitting, 1/4 NPT X 5/32 OD	1	
10		Block-off fitting, air tube	2	Remove to insert air tube as needed
11	-	Serrated flange locknut, M5 x 0.8, 18-8	2	
12	4-CAP	Cap, fitting, 1/4 NPT (F)	2	Remove to insert air tube as needed
13	4T-4	Fitting, 1/4 NPT (M) x 1/4 NPS (M)	2	
14	-	3/8 inch tubing, black	2 feet	Not shown to scale
15	72-2008	Connection, 1/4 inch swivel x 3/8 inch ErgoFlex hose	4	Parts create two (2) hose assemblies (one assembled hose shown)
16	71-31000	ErgoFlex HVLP bulk hose, 3/8 ID x 41/64 OD	2	
17	NHA-0403G	1/4 inch OD x .180 ID nylon, .035 inch wall, green	6 feet	Not shown to scale

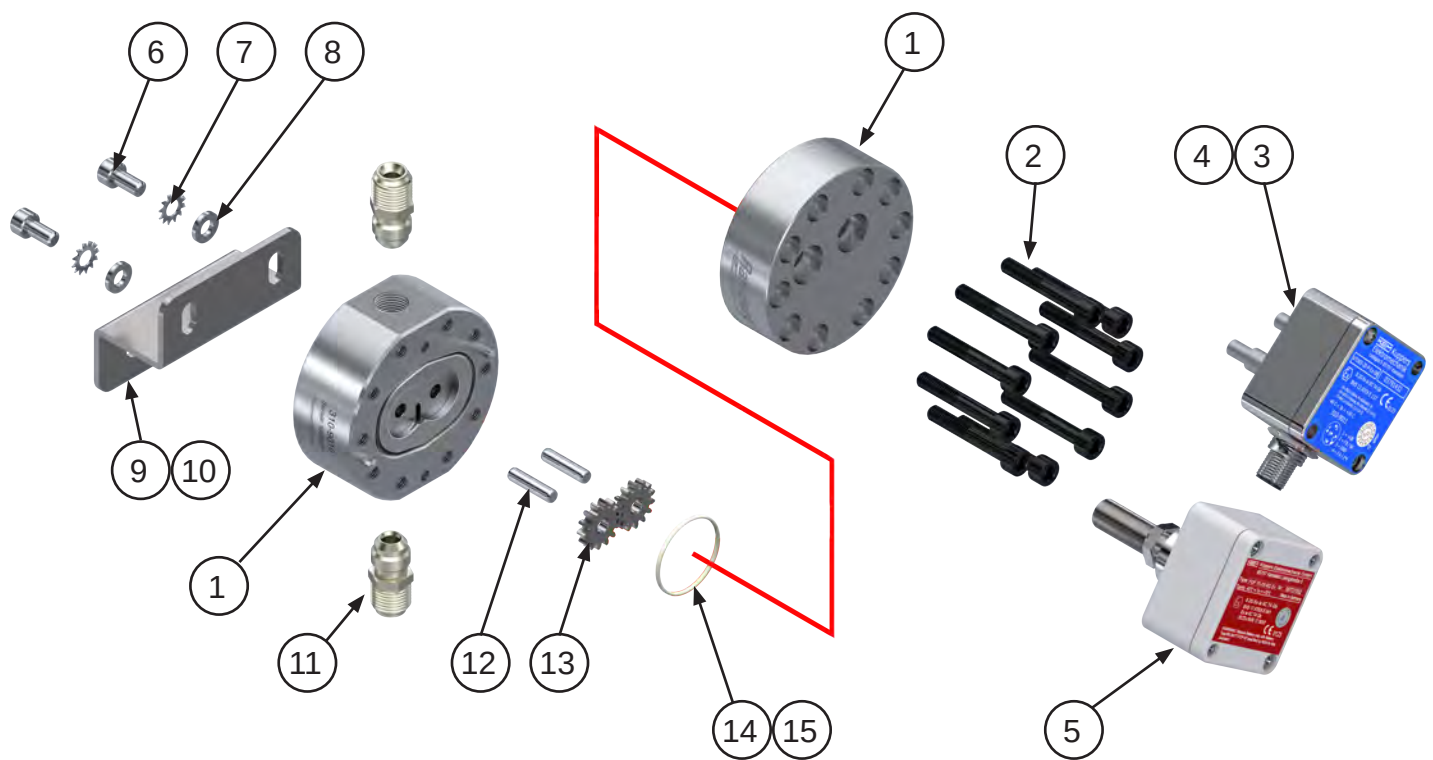
05.12 STANDARD FLOW METER



05.12 STANDARD FLOW METER

Item #	Part #	Description	Quantity	Notes
1	310-9010	Flow meter body (F/R housing)	1	Sold as an assembly
2	310-9020	Socket head cap screws, M6 x 30 millimeter	10	17.6 N•m (13 pound-foot)
3	310-9011	Dual probe pickup sensor	1	
4	—	Socket head cap screws, M4 x 0.7 millimeter	2	Included with 310-9011
5	310-9012	Fiber optic pickup sensor	1	
6	-	Socket head cap screw, M6 x 1, 12 millimeter LG, 18-8	2	
7	-	Washer, lock, external tooth, M6, 18-8	2	
8	-	Washer, flat, M6, 18-8	2	
9	-	Flow meter mounting bracket	1	For RM2 unit only
10	-	Flow meter mounting bracket	1	For RM2 unit only
11	4-6JIC	Fitting, 1/4 inch NPS (M) X 3/8 inch JIC (M)	2	
12	310-9016	Shaft, flow meter	2	
13	310-9015	Gear, flow meter	2	
14	-	Seal, flow meter	1	
15	310-9017-K5	Seals, flow meter	1	Sold as 5-pack

05.13 ACID CATALYST FLOW METER



05.13 ACID CATALYST FLOW METER

Item #	Part #	Description	Quantity	Notes
1	310-9013	Flow meter body, acid compatible (F/R housing)	1	Sold as an assembly
2	310-9020	Socket head cap screws, M6 x 30 millimeter	10	17.6 N•m (13 pound-foot)
3	310-9011	Dual probe pickup sensor	1	
4	—	Socket head cap screws, M4 x 0.7 millimeter	2	Included with 310-9011
5	310-9012	Fiber optic pickup sensor	1	
6	-	Socket head cap screw, M6 x 1, 12 millimeter LG, 18-8	2	
7	-	Washer, lock, external tooth, M6, 18-8	2	
8	-	Washer, flat, M6, 18-8	2	
9	-	Flow meter mounting bracket	1	For RM2 unit only
10	310-2806	Flow meter mounting bracket	1	For RM2 unit only
11	4-6JIC	Fitting, 1/4 inch NPS (M) X 3/8 inch JIC (M)	2	
12	310-9022	Shaft, flow meter, acid compatible	2	
13	310-9021	Gear, flow meter, acid compatible	2	
14	-	Seal, flow meter	1	
15	310-9017-K5	Seals, flow meter	1	Sold as 5-pack

MANUAL CHANGE SUMMARY

Date	Description	Version
08/2024	1st Draft. Split manual into multiple sections, put into new format, and restarted at Rev 1.0	R1.0
05/2025	Updated manual to latest Binks standards	R2.0

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WARRANTY POLICY

This product is covered by Binks' materials and workmanship limited warranty.

The use of parts or accessories from sources other than Binks will void all warranties. Failure to follow reasonable maintenance guidance provided can invalidate the warranty.

For specific warranty information, please contact Binks.

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

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WARRANTY PAGE





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