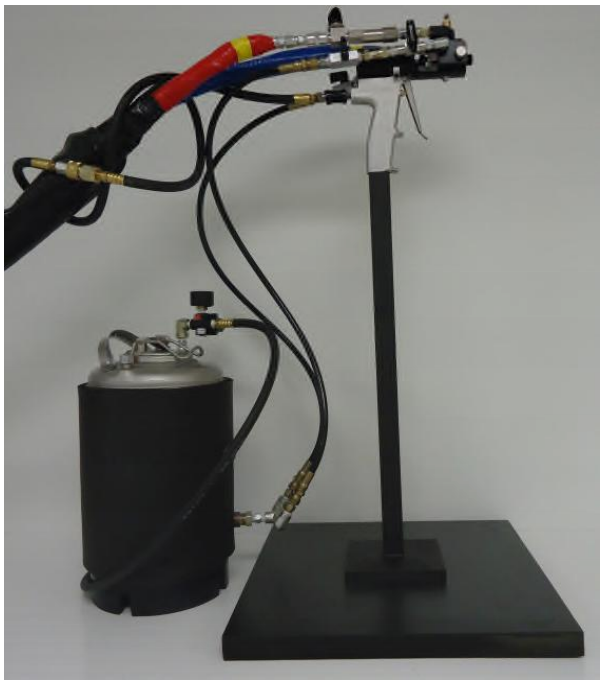
POLYURETHANE MACHINERY CORPORATION



Solvent Purge Spray & Pour Gun SP-1

For use with non-flammable Foam and Polyurea

For professional use only

Not for use in explosive atmospheres

Manual

Ref. # MN-04003

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Polyurethane Machinery Corp.

Corporate: 1 Komo Dr, Lakewood, NJ 08701

Manufacturing: 2 Komo Dr, Lakewood, NJ 08701

Phone: 732-415-4400

Fax: 732-364-4025

URL: http://www.polymac-usa.com

Before installing and operating the SP-1 Spray Gun, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the SP-1 Spray Gun. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the SP-1 Spray Gun.

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WARRANTY

Polyurethane Machinery Corporation (hereinafter "PMC") provides this **LIMITED WARRANTY** (hereinafter "Warranty") to the original purchaser (hereinafter "Customer") covering this equipment and the original PMC manufactured accessories delivered with the equipment (hereinafter "Product") against defects in material or workmanship of the Product (hereinafter "Defect" or "Defective") for a period of one (1) year from the date of first purchase as shown on the original PMC invoice (hereinafter "Warranty Period").

If during the Warranty Period under normal use, the Product is suspected by Customer to be Defective in material or workmanship, it is Customer's responsibility to contact PMC and return the Product to PMC as directed by PMC, freight prepaid. If PMC determines that the Product is Defective and that such Defect is covered by this Warranty, PMC will credit Customer for the reasonable freight charges incurred by Customer in returning the Defective Product to PMC, and PMC (or its authorized agent) will, at PMC's option, repair or replace the Product, subject to the following:

Original Invoice: The original invoice must be kept as proof of the date of first sale and the Product serial number. The Warranty does not cover any Product if the Original Invoice appears to have been modified or altered, or when the serial number on the Product appears to have been altered or defaced.

Product Maintenance: It is the Customer's responsibility to maintain the Product properly. See your maintenance schedule and owner's manual for details. The Warranty does not cover an improperly maintained Product.

Non-PMC Components and Accessories: Non-PMC manufactured components and accessories that are used in the operation of the Product are not covered by this Warranty. Such components and accessories shall be subject to the warranty offered to the Customer, if any, by the original manufacturer of such component or accessory.

Other Warranty Exclusions: The Warranty does not cover any Product that PMC determines has been damaged or fails to operate properly due to misuse, negligence, abuse, carelessness, neglect, or accident. By way of example only, this includes:

- Normal wear and tear.
- Improper or unauthorized installation, repair, alteration, adjustment or modification of the product.
- Use of heating devices, pumping equipment, dispensers, or other parts or accessories with the product that have not been approved or manufactured by PMC.
- Failure to follow the operating instructions and recommendations provided by PMC.
- Cosmetic damage.
- Fire, flood, "acts of God," or other contingencies beyond the control of PMC.

THE WARRANTY DESCRIBED HEREIN IS THE EXCLUSIVE REMEDY FOR THE CUSTOMER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED. TO THE FULLEST EXTENT PERMITTED BY LAW, PMC SHALL NOT BE RESPONSIBLE, WHETHER BASED IN CONTRACT, TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE), WARRANTY OR ANY OTHER LEGAL OR EQUITABLE GROUNDS, FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, LOST PROFITS, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, WHETHER TO PERSON OR PROPERTY, ARISING FROM OR RELATING TO THE PRODUCT, EVEN IF PMC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES.

Non-Warranty Service by PMC: If PMC determines that the suspected Defect of the Product is not covered by this Warranty, disposition of the Product will be made pursuant to the terms and conditions of PMC's written estimate on a time and materials basis.

Continuing Warranty for Products Repaired or Replaced under Warranty: Following the repair or replacement of a Product covered by this Warranty, such Product will continue to be subject to the original Warranty for the remainder of original Warranty Period or for three (3) months from the repair or replacement date, whichever is longer.

No Rights Implied: Nothing in the sale, lease or rental of any Product by PMC shall be construed to grant any right, interest or license in or under any patent, trademark, copyright, trade secret or other proprietary right or material owned by anyone; nor does PMC encourage the infringement of same.

Exclusive Warranty: This writing is the final, complete, and exclusive expression of the Warranty covering the Product. Any statements made by PMC, its employees or agents that differ from the terms of this Warranty shall have no effect. It is expressly understood that Customer's acceptance of this Warranty, by performance or otherwise, is upon and subject solely to the terms and conditions hereof, and any additional or different terms and conditions proposed or expressed by Customer or anyone, whether in writing or otherwise, are null and void unless specifically agreed to in writing by an Officer of PMC.

SAFETY AND HANDLING

This chapter contains important information on the safety, handling, and use of your SP-1 Solvent Purge Gun.

Before installing the SP-1 Spray Gun and start-up, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the SP-1 Spray Gun. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the SP-1 Spray Gun.

WARNING! Presents information to alert of a situation that might cause serious injuries if the instructions are not followed.

CAUTION! Presents information that indicates how to avoid damage to the equipment or how to avoid a situation that could cause minor injuries.

***NOTE!* Is relevant information of a procedure being carried out.**

Careful study of this manual will enable the operator to know the characteristics of the SP-1 Solvent Purge Gun and the operating procedures. By following the instructions and recommendations contained herein, you will reduce the potential risk of accidents in the installation, use, or maintenance of the SP-1 Solvent Purge Gun; you will provide a better opportunity for incident-free operation for a longer time, greater output and the possibility of detecting and resolving problems quickly and simply.

Keep this Operations Manual for future consultation of useful information at all times. If you lose this manual, ask for a new copy from your PMC Distributor or go online and visit our web site at www.polymac-usa.com.

The SP-1 Solvent Purge Gun has been designed and built for the application of polyurea chemical systems, polyurethane foam chemical systems, and some two-component epoxy systems.

***WARNING!* The design and configuration of the SP-1 Solvent Purge Gun does not allow its use in potentially explosive atmospheres, or the pressure and temperature limits described in the technical specifications of this manual to be exceeded.**

Always use liquids and solvents that are compatible with the unit. If in doubt, consult your authorized PMC Distributor.

When working with the SP-1 Solvent Purge Gun, it is recommended that the operator wear suitable clothing and elements of personal protection, including, without limitation, gloves, protective goggles, safety footwear, and face masks. Use breathing equipment when working with the SP-1 Solvent Purge Gun in enclosed spaces or in areas with insufficient ventilation. The introduction and follow-up of safety measures must not be limited to those described in this manual. Before starting up the SP-1 Solvent Purge Gun, a comprehensive analysis must be made of the risks derived from the products to be dispensed, the type of application, and the working environment.

To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Material Safety Data Sheet (MSDS) provided by your supplier.

Deal with the waste caused according to current regulations.

To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.

Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes and safety clothing and breathing equipment.

The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.

To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.

TECHNICAL SPECIFICATIONS

Maximum Working Pressure _____

Air Pressure _____ 90-125 psi (6.2-8.6 bar)

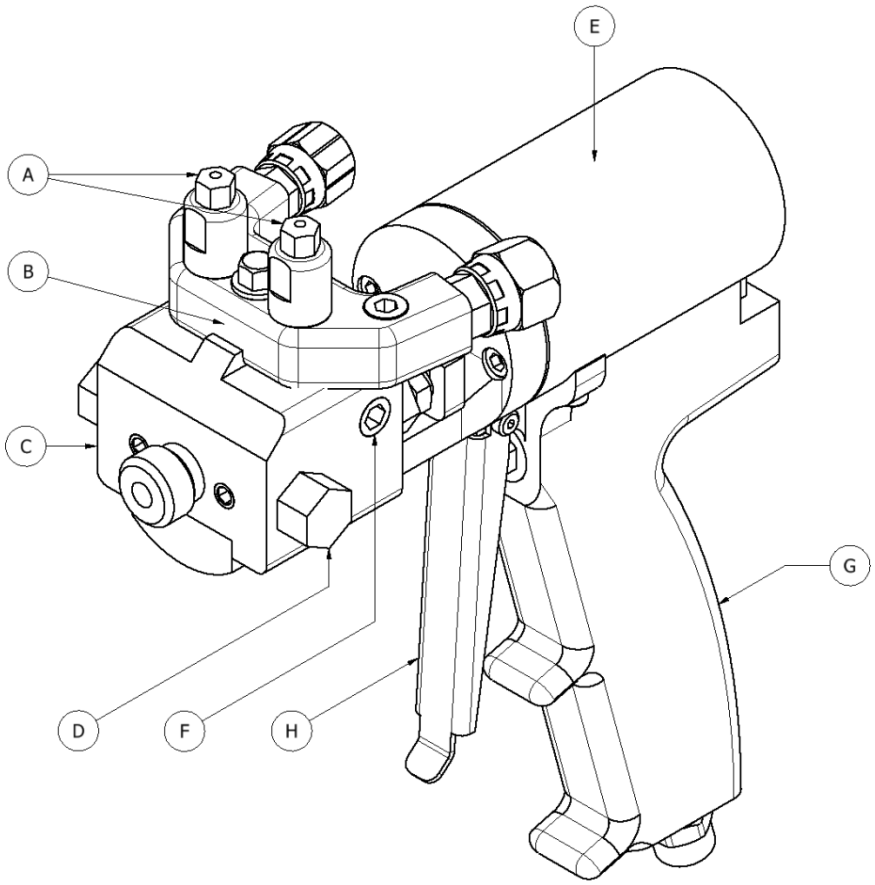
Maximum Output _____

Minimum Output _____

Opening Force @ 110 psi (8 bar) _____

Closing Force @ 110 psi (8 bar) _____

DESCRIPTION



A. MANUAL VALVES

Controls the flow of the material to the gun.

B. COUPLING BLOCK

Allows the removal of the SP-1 without exposing the chemicals in the system to the environment.

C. GUN BLOCK

Part of the SP-1 where the two chemicals come together and the mixing takes place

D. ORIFICE

Controls the flow and back pressures of the two chemicals

E. AIR CYLINDER

Controls the flow and back pressures of the two chemicals

F. FLUSH PORT

Ports are used in conjunction with the flush valve kit to flush the chemicals from the SP-1 without removing the coupling block from the gun.

G. GUN HANDLE

Used to hold and direct the mixed chemical to a substrate

H. GUN TRIGGER

Controls the opening and closing for the dispensing mode

INSTALLATION

CAUTION! When working with the SP-1 Solvent Purge Gun or performing maintenance, wear suitable safety protection in accordance with the recommendations and specifications provided by the product supplier.

1. Install the female quick-disconnect fitting onto the air supply hose located on the 10' heated whip.
2. Verify that the "A" filter assembly is installed on the "A" side heated whip.
3. Attach the coupling block to the heated whip, make sure that the manual valves are in the closed position (turn clockwise to close).
4. Connect the coupling block to the gun block using the coupling block mounting screw provided.
5. Attach the air slide valve, air hose, and male disconnect to the air inlet of the SP-1.
6. Check the Proportioning Unit for proper hose temperature, heater temperature, and pressure.
7. Open both manual valves by turning each manual valve at least three full turns counterclockwise.
8. Check for any leakage and correct as required.
9. Install the probe mixer (not supplied) to the front of the gun.

START-UP

CAUTION! ***Before attempting the following procedures, make sure the gun is attached to the coupling block and air hoses, the proportioning unit is at the desired temperature and pressure and the system is ready for operation.***

1. Connect the gun air hose to the quick disconnect fitting on the 10’ heated whip.
2. Open the air slide valve.
3. Open both manual valves by turning each manual valve at least three full turns counterclockwise.
4. Check for any leakage and correct as required.
5. Install probe mixer (not supplied) to the front of the gun.
6. Check the proportioning unit for proper hose temperature, heater temperature, and pressure.

SHUT-DOWN

WARNING! As an additional safety precaution, the air line has a quick disconnect air coupling. Disconnect the air line when transporting the gun with the chemical hoses connected. A slide valve is also provided to disable the air from the gun.

CAUTION! When servicing or operating the SP-1 Solvent Purge Gun, sufficient protective clothing must be worn to prevent prolonged skin contact with chemicals or solvents used in or with the gun. Always wear approved Safety Glasses or Goggles, Gloves, and Respiratory equipment when servicing or operating the SP-1 Solvent Purge.

The gun block must be thoroughly cleaned with gun cleaner before removing any of its components. In this way, the residue left from the two components will be completely diluted with gun cleaner and will not react with one another when the gun block components are removed.

1. Close both manual valves by turning each valve fully clockwise.
2. Flush the gun:
    a. Remove the safety nuts from the SP-1 flush valves.
    b. Connect the hoses from the SP-3 flush can to the SP-1 flushing valves.
    c. Make sure that the SP-3 flush can has enough gun cleaner in its container to flush the SP-1 gun.
    d. Pressurize the SP-3 flush can to 80 psi (5.5 bar).
    e. Turn the valves on the SP-3 flush can and the SP-1 flush valves to the flow position.
    f. Hold the gun over an open container.
    g. With the air supply connected to the SP-1 gun and the manual valves closed, pull the trigger to purge the chemical from the SP-1 gun.
    h. Allow the solvent to flow for approximately 10-15 seconds to remove any remaining chemical.
    i. Relieve the air pressure in the SP-3 flush can by pulling the ring up on the over pressure safety valve located on the SP-3 flush can cover.
    j. Pull the trigger to relieve all pressure from the SP-1 gun and the SP-3 flush can.

k. Close the valve on the SP-3 flush can hoses and the SP-1 flushing valves and disconnect the hoses.

l. Install the safety nuts on the two SP-1 flush valve fittings on the gun.

3. Clean as required. For proper cleaning, see Cleaning Procedure.

MAINTENANCE

The SP-1 Spray Gun has been designed and built to withstand severe working conditions with a high degree of reliability, provided that it is used in a suitable application by a properly trained operator. This chapter contains information on possible faults that may interrupt the operation of the SP-1 Spray Gun. The information provided will serve as a guideline to detect and resolve problems. In any case, feel free to contact your authorized PMC Distributor, where a qualified technician will advise you.

To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Material Safety Data Sheet (MSDS) provided by your supplier.

Deal with the waste caused according to current regulations.

Disconnect the unit from the power supply before carrying out any operation inside the electrical console.

The electrical maintenance of the machine must only be performed by a qualified electrician.

To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.

Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes and safety clothing and breathing equipment.

The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.

To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.

CAUTION! All repairs performed by unqualified personnel or the use of parts other than supplied by PMC may cause damage to the unit and put the operator at risk.

Cleaning Procedure

The gun block must be thoroughly cleaned with gun cleaner before removing any of its components. In this way, the residue left from the two components will be completely diluted with gun cleaner and will not react with one another when the gun block components are removed.

This procedure makes use of the SP-3 three gallon gun service kit and is the recommended procedure for the following reasons:

1. The cleaning is more efficient and uses less gun cleaner.
2. The gun does not have to be disassembled.
3. It can be used as a quick and efficient end of the day procedure

Servicing Procedure

WARNING! ***Properly ground all equipment involved in the cleaning operation to avoid static sparking which could result in fire or explosion. Do not clean on or near foamed or coated surfaces.***

CAUTION! ***When servicing or operating the SP-1 Solvent Purge Gun, sufficient protective clothing must be worn to prevent prolonged skin contact with the chemicals or solvents used in or with the gun. Always wear approved safety glasses or goggles, gloves, and respiratory equipment when servicing or operating the SP-1 Solvent Purge Gun.***

CAUTION! ***Disconnect the coupling block and airline before servicing the gun. In addition, be sure to flush the gun block components with the gun service kit prior to removal for servicing as they are exposed to the chemical.***

1. Close both manual valves by turning each valve fully clockwise.
2. Attach the SP-3 Gun Service Kit to flush the SP-1. See Flushing Procedure.
3. Remove the Probe Mixer Assembly (not supplied) from the gun block. Service the assembly as required.
4. Remove the gun block screw.

5. Remove the gun block by pulling the gun block up and away from the gun. Be sure to retain the yoke, which connects the valving rods to the Piston Shaft.

6. Remove and service the orifices:

    a. Remove the “A” Iso and the “R” poly Orifices from the gun block.

    b. Place the orifices in gun cleaner. Remove them from the cleaner and remove any residual chemical with a brass brush and/or clean out drill. Blow the parts dry with air and replace the O-rings if needed. Inspect the orifices for damage or ear and replace them if damage.

7. Remove the coupling block gasket/check valves from the gun block. Place the parts in gun cleaner. Remove them from the cleaner and remove any residual chemical with a brass brush. Blow the parts dry with air, inspect, and replace if needed.

8. Remove the valving rod assemblies from the gun block and inspect the tip of each valving rod for excessive wear. If wear is detected, replace the valving rod and the valving rod seat located in the gun block. If no wear is visible, proceed to step 11.

9. Replace the valving rods as follows:

    a. Hold the valving rod assembly and loosen the packing nut.

    b. Gently pull the valving rod from the packing nut and discard if damaged.

    c. Remove the packing nut from the housing.

    d. Through the threaded end of the housing, the seat is visible. With a punch and ball-peen hammer, gently tap the seat packing until the packing washer and packing seat come free from the housing. Discard the packing if necessary.

    e. Install the new packing washer seat in the Housing in the same order they were removed.

    f. Thread the packing nut into the housing.

    g. Gently slide the new valving rod into the packing nut until it seats.

10. Replace the valving rod seats as follows:

    a. Remove the pipe plug in line with the valving rod seat being removed.

    b. Place the gun block on a hard surface. The valving rod seat is visible thorough the opening previously occupied by the pipe plug. Using the punch and ball-peen hammer, gently tap on the seat until it comes free from the gun block. Discard the valving rod seat.

    c. Using the punch and ball-peen hammer, gently tap the new valving rod seat in place until it properly seats with the gun block.

11. Clean the gun block before reassembly using the appropriate brass brushes, clean out drills, etc. and remove any residual chemical. Use cotton swabs and gun cleaner if necessary. When finished, coat the thread and the mating surfaces of the gun block, gun block bracket, and gun with air cylinder lube. Do not get any grease in the chemical ports located in the gun block, gun block bracket, and gun with air cylinder lube. Do not get any grease in the chemical ports located in the gun block as this could interfere with chemical flow.

12. Insert the orifices into the gun block, the “A” side is identified with a notch on the head and the “R” side is plain.

13. Insert the valving rod assembly into the gun block and tighten it in place.

14. Adjust and tighten the packing nut.

15. Reinstall the “A” Iso and “R” Poly coupling block gasket/check valve

16. Reinstall the yoke over the end of the piston shaft.

17. Reinstall the gun block and align the ends of the valving rods with the yoke. Push the gun block in towards the air cylinder until the alignment pin seats itself in the recess on the gun block mount.

18. Reinstall the gun block mounting screw.

19. Install the probe mixer (not supplied) on the front of the gun block by turning it clockwise.

20. Perform the start up procedure.

Air Piston O-Ring and Cup Seal Replacement

CAUTION! ***Disconnect the chemical hoses and airline before servicing the gun. In addition, be sure to flush the gun block components with the gun service kit prior to removal for servicing as they are exposed to the chemical.***

1. Close both manual valves by turning each manual valve fully clockwise.

2. Remove the gun from the coupling block by removing the coupling block mounting screw and separating the gun from the coupling block. Using a rag and gun cleaner, wipe clean the face of the coupling block to prevent material build-up.

3. Clean the gun (Follow the cleaning procedure outlined on page 12)

4. Disconnect the air supple from the gun.

5. Remove the gun block screw.

6. Remove the gun block by pulling the gun block off the gun block mount. Be sure to retain the yoke.

7. Remove the rear clamp by removing the socket head screw that connects the air cylinder to the handle.

8. Remove the retaining ring that holds the end cap in place with retaining ring pliers.

9. Remove the end cap assembly by pulling the end cap assembly until it comes free from the air cylinder. Be sure to retain the piston spring located inside of the air cylinder for future use.

NOTE! *Removing the end cap will require some additional force since the O-ring is tightly compressed in this configuration.*

10. Inspect the end cap O-ring. If necessary remove it and replace it with s new O-ring after lightly coating it with air cylinder lube.

11. Remove the piston/shaft assembly. The piston is visible from the rear of the air cylinder. Using pliers, take hold of the head of the screw on the back side of the piston and pull the piston out of the cylinder. Inspect the O-ring for damage and replace it if necessary. Install the new O-ring after applying air cylinder lube.

12. If air is leaking around the piston rod, remove and replace the seal cup located in the front of the air cylinder.

13. Reinstall the piston assembly into the air cylinder by inserting the piston assembly into the air cylinder. Be careful not to damage the cup seal in the front face of the air cylinder as the shaft passes through it.

14. Reinstall the end cap assembly and piston spring by inserting the piston spring in the recess on the backside of the piston, then inserting the end cap into the air cylinder. Press the end cap down until it moves past the undercut groove in the air cylinder. Reinstall the retainer ring.

15. Reconnect the gun block to the gun block bracket by placing the yoke over the valving rod ends, making sure that the yoke properly engages the piston rod. Install the gun block mounting screw.

Trigger Valve O-Ring Replacement

1. Close both manual valves by turning each valve fully clockwise.

2. Remove the gun block from the coupling block by removing the coupling block mounting screw and separating the gun from the coupling block. Using a rag and gun cleaner, wipe clean the face of the coupling block to prevent material build-up.

3. Disconnect the air supply by removing the air hose from the back of the SP-1.

4. Remove the trigger lever by removing the screw and locknut that hold the trigger in place.

5. Remove the retainer nut.

6. Remove the valve spool by taking hold of the spool valve and pulling it out of the gun handle. Be careful not to lose the spring housed inside the end of the spool. Replace the O-rings and apply a thin coat of air cylinder lube to the O-rings.

7. Remove the valve liner by removing the pipe plug inside the air inlet of the SP-1. With a pin punch, tap out the spring retainer and valve liner.

8. Remove and replace the O-rings. Apply a thin coat of air cylinder lube to the O-rings.

9. Reinstall the spring retainer/valve liner.

10. Reinstall the spring and valve spool.

11. Reinstall the retainer nut.

12. Reinstall the trigger.

13. Reinstall the pipe plug.

TROUBLESHOOTING

The SP-1 Solvent Purge Gun has been designed and built to withstand severe working conditions with a high degree of reliability, provided that it is used in a suitable application by a properly trained operator. This chapter contains information on possible faults that may interrupt the operation of the SP-1 Solvent Purge Gun. The information provided will serve as a guideline to detect and resolve problems. In any case, feel free to contact your authorized PMC Distributor, where a qualified technician will advise you.

***CAUTION!* All repairs performed by unqualified personnel or the use of spares other than originals may cause damage to the unit and put the operator at risk.**

To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Material Safety Data Sheet (MSDS) provided by your supplier.

Deal with the waste caused according to current regulations.

To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.

Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes and safety clothing and breathing equipment.

The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.

To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.

Problem Description	Possible Cause	Solution
Material leaks from the front of the gun when it is in the off position	1. Replace valving rod seat(s) 2. Replace valving rods(2)	OPEN, see servicing procedure (Pg. 13)
Material does not dispense when the gun is triggered	1. Manual valves CLOSED 2. Orifice plugged 3. Check valves plugged	OPEN, see servicing procedure (Pg. 13)
Material spray pressure imbalance	1. Inlet orifices plugged 2. Material temperature not as recommended by material supplier	Clean, see cleaning procedure (Pg. 12-18)
Excessive hard stream from the SP-1	1. Material temperature not as recommended by material supplier 2. Pour pressure not as recommended by material supplier	Adjust, see proportioner manual
SP-1 opens and closes slowly	1. Check air pressure 2. Service the trigger valve assembly 3. Service the air cylinder	Clean, see cleaning procedure (Pg. 12-18)
Steady air leakage from handle	1. Air cylinder O-rings damaged 2. Trigger valve O-rings damaged	Replace (Pg. 16-18)

NOTE! *After troubleshooting the SP-1 gun and performing solutions, ensure the proportioner operation is correct.*

GUN OPERATION

Triggered On:

Directs the flow of air to the front of the air cylinder piston, pulling the valving rods rearward, allowing the material at temperature and pressure to be atomized as it flows through the orifices and into the mixing area of the SP-1 gun.

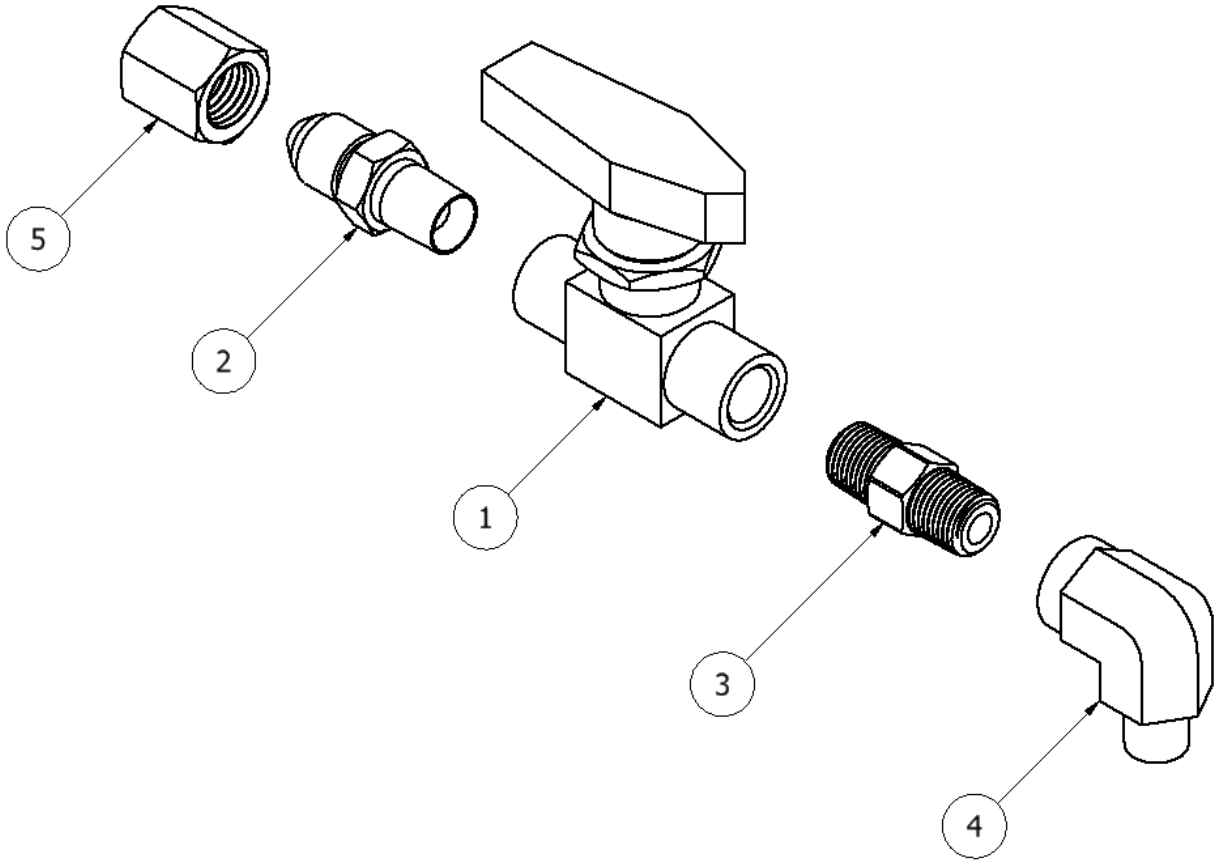
Triggered Off:

Directs the flow of air to the rear of the air cylinder piston and pushes the valving rods forward, cutting off the flow of the two chemicals to the mixing area of the SP-1 gun.

REPLACEMENT KITS

Gun Flush Valve Assembly

KT-05027

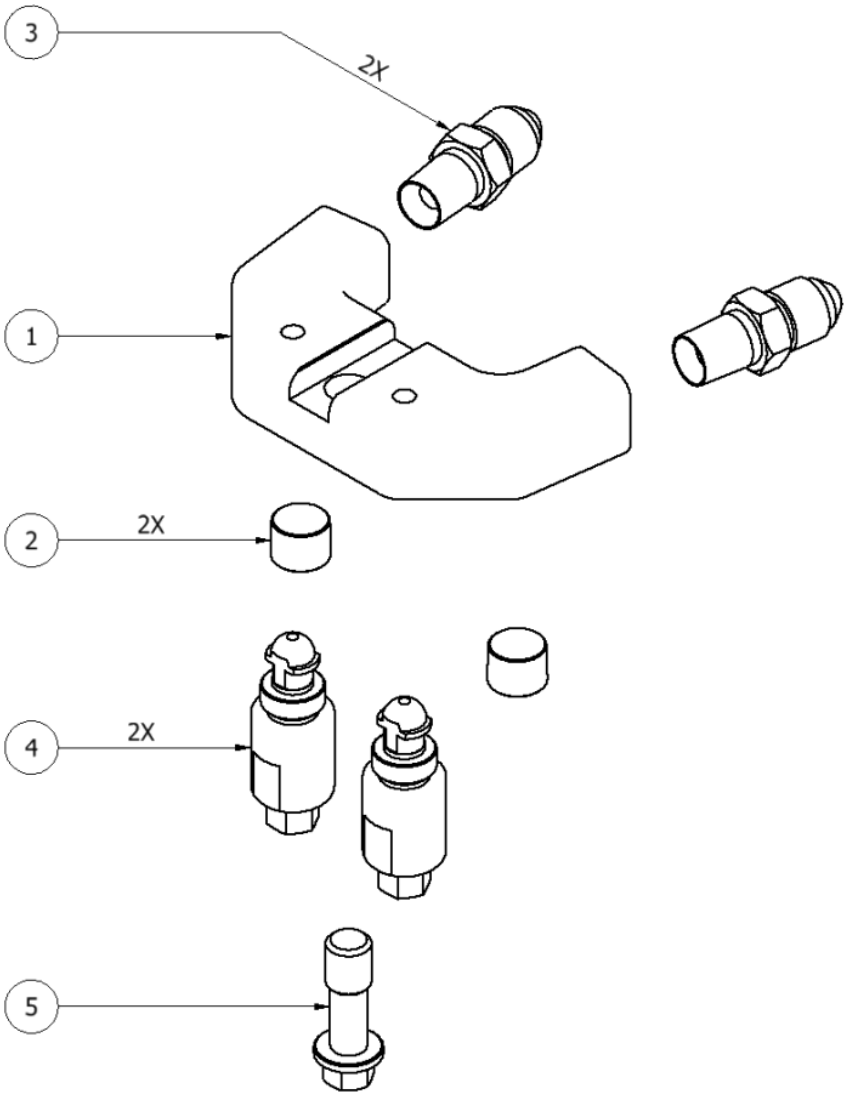


PART LIST			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	SUB-08	2	VALVE; 1/8 NPT
2	HI-05078	2	FITTING; 1/8 X #4 JIC
3	HI-05079	2	NIPPLE; 1/8 NPT
4	HI-05080	2	ELBOW 1/8 NPT MXF
5	HI-05081	2	CAP; #4 JIC

NOTE! *Kit includes one each for the "A" and "R" side of the gun.*

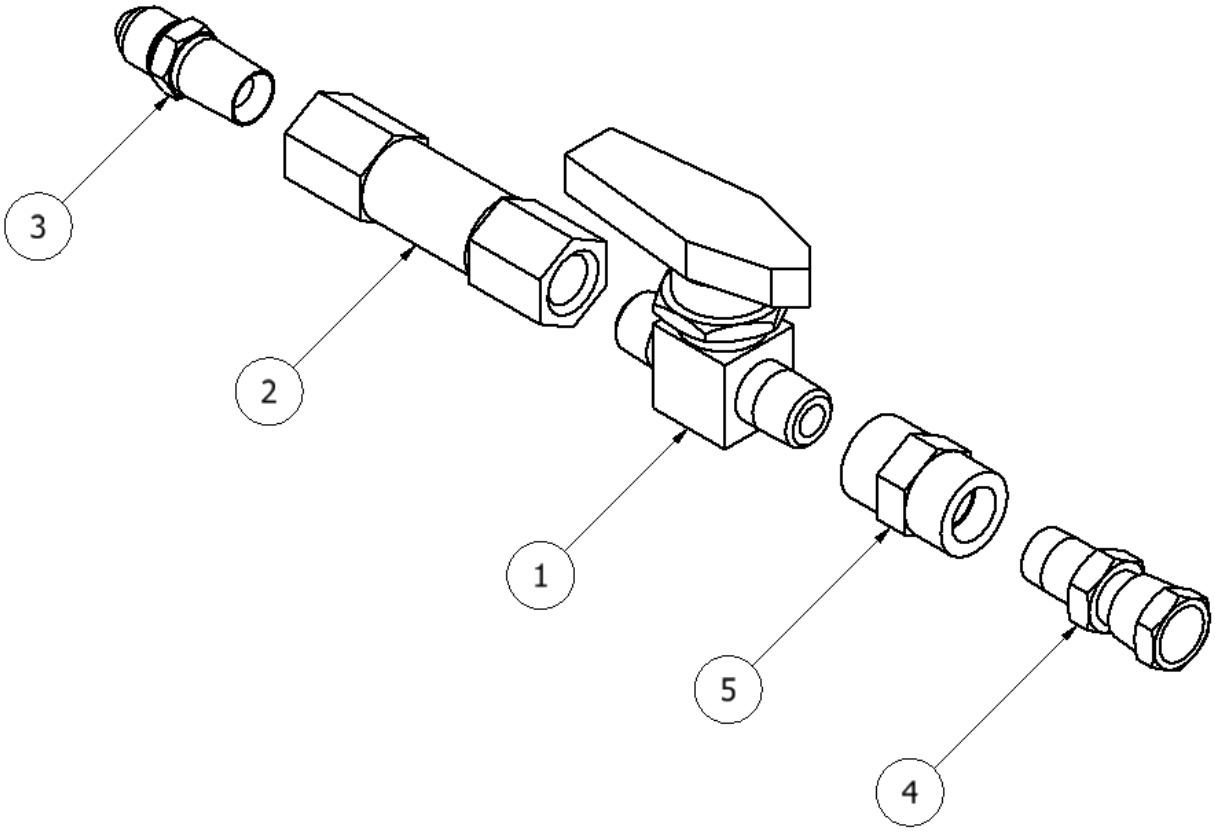
Optional Flush Block

(SP-3-4)



PART LIST			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	GU-04001-01	1	COUPLING BLOCK BODY
2	TN-04192	2	1/8 NPT PIPE PLUG
3	HI-05078	2	FITTING; 1/8 X #4 JIC
4	GU-020	2	MANUAL VALVE ASSEMBLY
5	TN-04193	2	COUPLING BLOCK MOUNTING SCREW

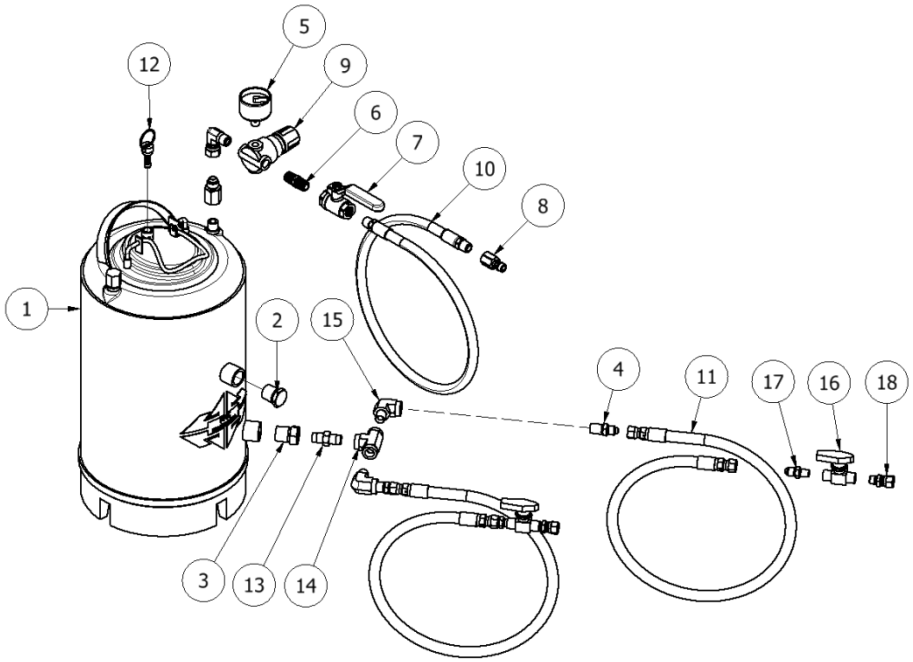
"A" Side Filter Assembly



PART LIST			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	SUB-02	1	SHUT OFF VALVE
2	SUB-01	1	IN LINE FILTER
3	EL-00051A-4	1	1/4 X #5 JIC MALE FTG
4	EL-00051A-7	1	1/4 X #5 JIC FEMALE SWIVEL FTG
5	HI-05073	1	1/4 X 1/4 NPTF
-	SUB-01-1	1	IN LINE FILTER SCREEN; GUN

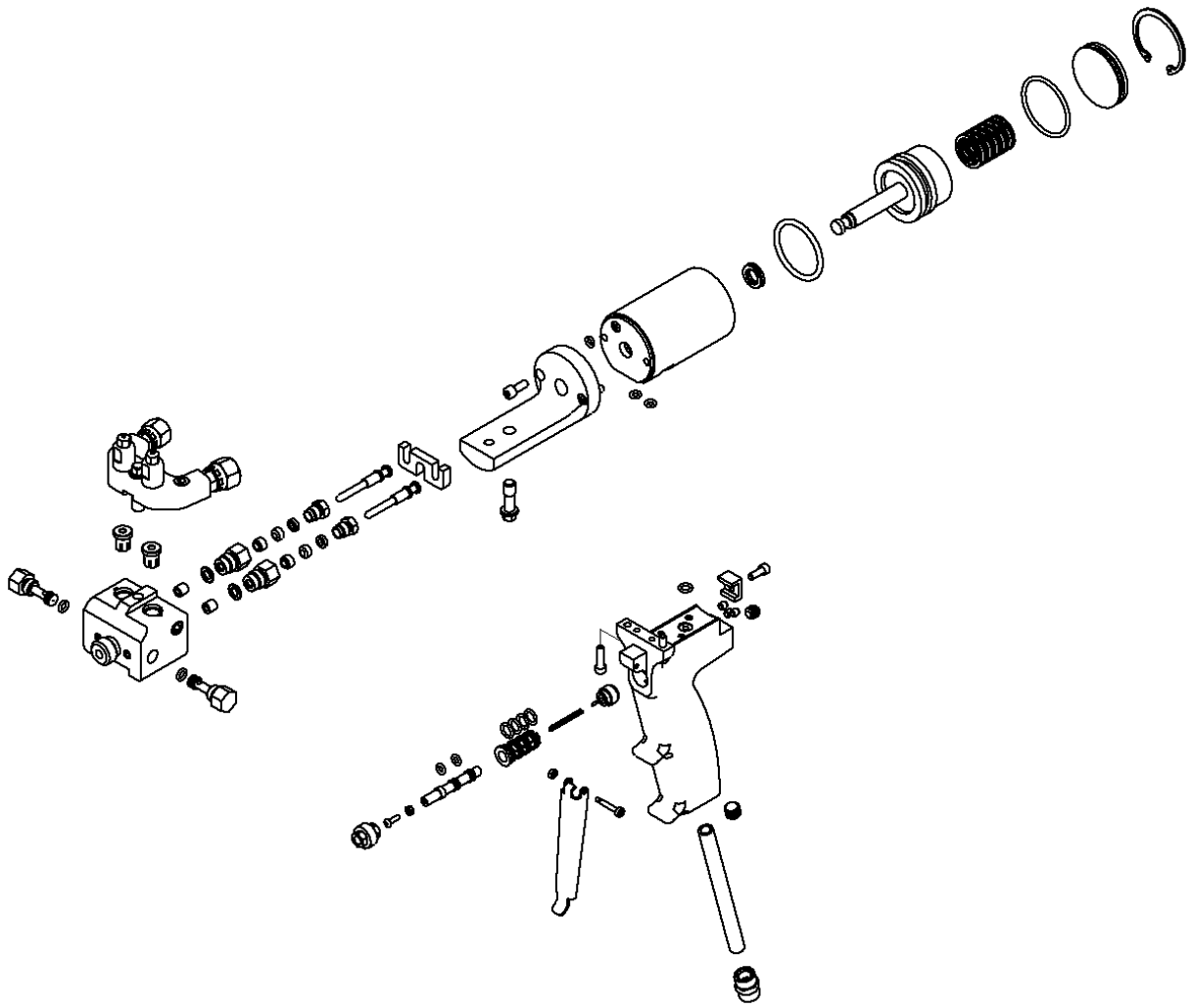
PART IDENTIFICATION

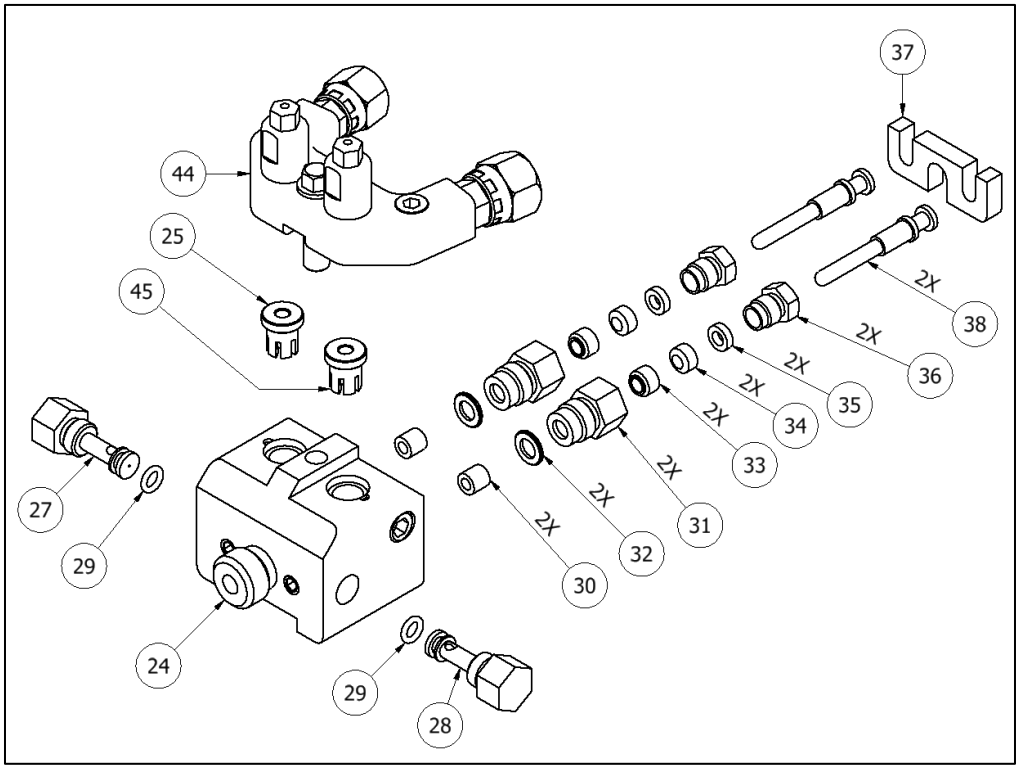
SP-3 Flush Kit



PART LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	SP-3-1	FLUSH CAN
2	1	HI-05048	DRAIN PLUG
3	1	HI-05050	REDUCER
4	2	HI-05064	FITTING 1/4 NPTM X #4 JIC MALE
5	1	NE-06007	AIR PRESSURE GAUGE
6	1	RM-PAR216P4	PARKER BRASS NIPPLE
7	1	HI-05082	BALL VALVE
8	1	GU-04022	QUICK DISCONNECT; MALE
9	1	SUB-03	REGULATOR; 0-100PSI PRESSUIRE
10	1	SP-3-2	AIR HOSE
11	2	MA-51	HOSE; 36" HIGH PRESSURE
12	1	SP-3-3	SAFETY BLOW OFF
13	1	GP-00100-1	1/4 PIPE NIPPLE
14	1	HI-05058	1/4 TEE
15	2	HI-05030	1/4 MNPT X 1/4 FNPT STREET ELBOW
16	2	SUB-08	VALVE, 1/8"
17	2	HI-05078	FITTING; 1/8 NPT X 4 JIC
18	2	EL-00051A-3	1/8 X #4 JIC FEM SWIVEL FTG

SP-1 Spray Gun

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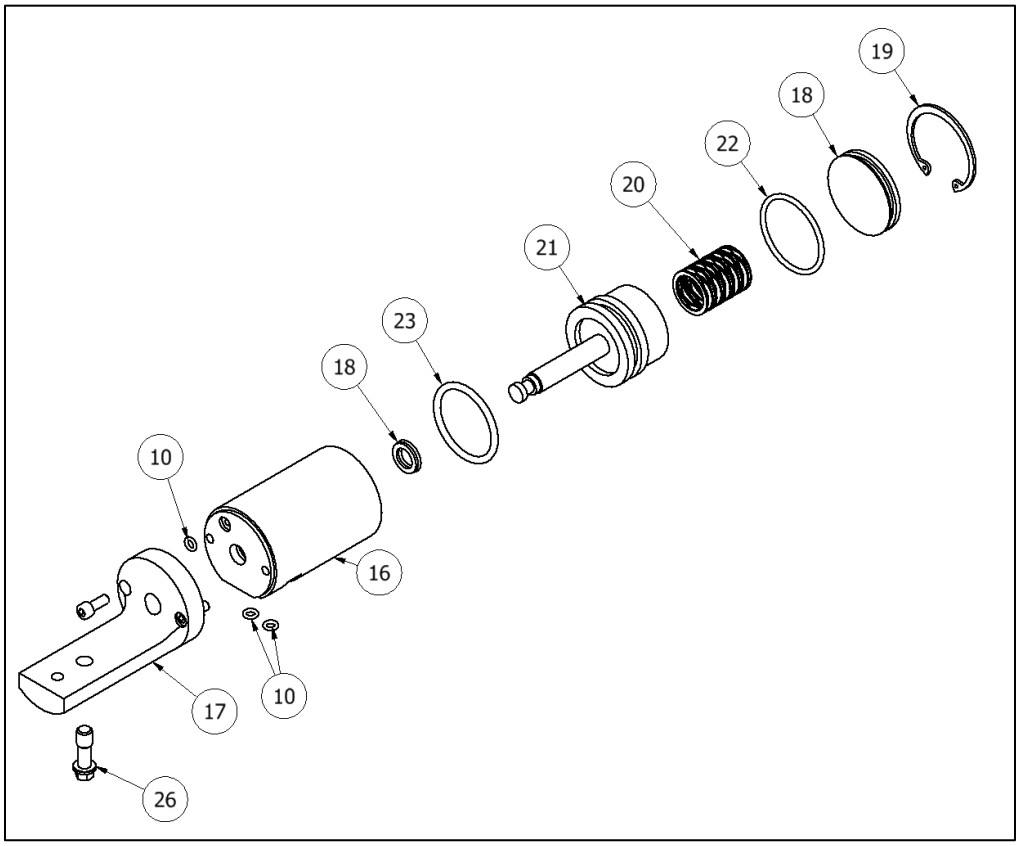
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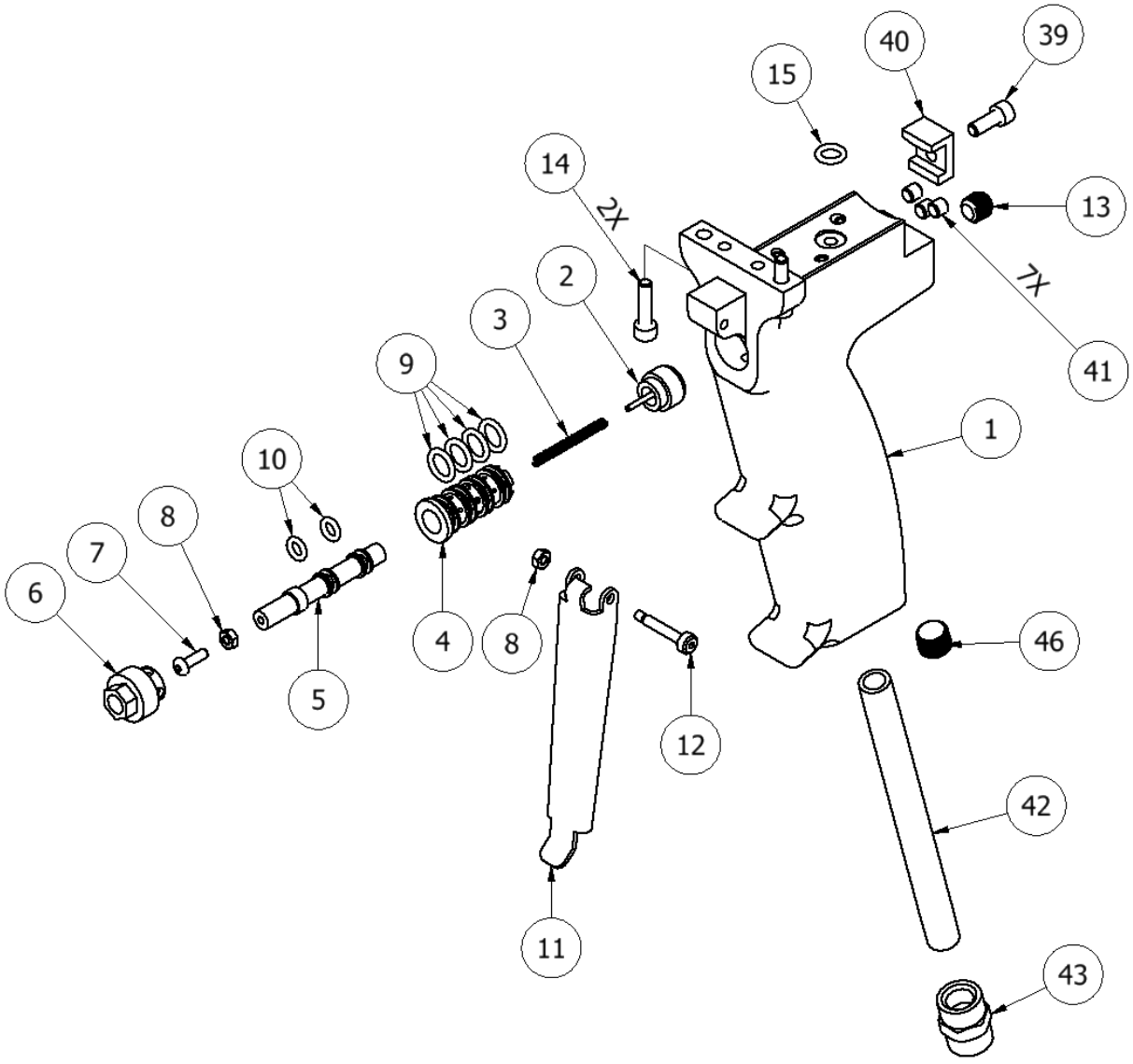

PART LIST			
ITEM	**QTY**	**PART NUMBER**	**DESCRIPTION**
1	1	GU-04005	GUN HANDLE AND SCREWS
2	1	GU-04027A	SPRING SEAT WITH PIN
3	1	SP-04002A	SPRING; VALVE
4	1	GU-04056	VALVE LINER
5	1	GU-04016	SPOOL VALVE
6	1	GU-04026	RETAINING NUT
7	1	TN-00184	M3 X 3/8 BHCS
8	2	TN-00185	M3 STOP NUT
9	4	OR-00037A	O-RING
10	5	OR-00002A	O-RING

PART LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
11	1	GU-04015	TRIGGER HANDLE
12	1	TN-04190	SHOULDER SCREW
13	1	TN-04195	PIPE PLUG
14	2	TN-04001	8-32 X 5/8 SHCS
15	1	OR-00043A	O-RING
16	1	GU-925	AIR CYLINDER
17	1	GU-924	GUN BLOCK MOUNT
18	2	GU-918	END CAP
19	1	TN-04092	TRU-ARC RING
20	1	GU-923	WAVE SPRING
21	1	GU-922	PISTON ASSEMBLY
22	1	OR-00026A	O-RING
23	1	OR-00029A	O-RING
24	1	GU-904	GUN BLOCK ASSEMBLY
25	1	GU-901	A & R CHECK VALVES
26	1	TN-04193	COUPLING BLOCK MOUNTING SCREW
27	1	GU-906	"A" ORIFICE
28	1	GU-907	"R" ORIFICE
29	2	OR-00050A	O-RING
30	2	GU-905	VALVING ROD SEAT
31	2	GU-908	VALVE HOUSING
32	2	GU-914	VALVE SEAT GASKET
33	2	GU-909	PACKING SEAT
34	2	GU-910	PACKING
35	2	GU-911	PACKING WASHER
36	2	GU-912	ADJUSTING NUT
37	1	GU-926	VALVING ROD YOKE
38	2	GU-913	VALVING ROD
39	1	TN-04002	SCREW; CYLINDER MOUNTING CLAMP
40	1	GU-04008	CYLINDER CLAMP
41	7	TN-04187	10-32 X 3/16 PORT PLUG
42	1	GU-01037A	PIPE NIPPLE
43	1	RA-PAR-207P2	FEMALE COUPLER
44	1	GU-04001	COUPLING BLOCK ASSEMBLY
45	1	GU-902	MOUNTING BUSHING
46	1	TN-04192	PIPE PLUG