

## DEPOSITING & FILLING EQUIPMENT

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**HINDS-BOCK - PARTS / SERVICE & INSTRUCTION MANUAL**



# MULTI-PISTON MUFFIN/CAKE BATTER DEPOSITOR w/ENHANCED SAFETY TRAY & SCALE & NSF COMPLIANT

**MODEL No.: 5P-08WT (NSF)**



## HINDS-BOCK CORPORATION

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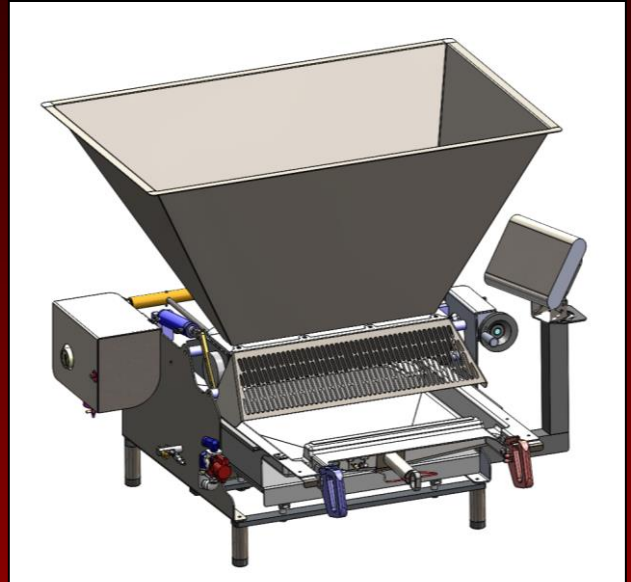
# TABLETOP MUFFIN/CAKE BATTER DEPOSITOR FOR FOOD SERVICE APPLICATIONS

## HINDS-BOCK NSF APPROVED 5P-08WT

**TABLETOP DEPOSITOR** is the answer for bakers with limited space. Handling all batters with gentle care, it maintains the integrity of quality products.

## THIS SIMPLE-TO-OPERATE TABLETOP

**DEPOSITOR** is the economical, maintenance-free workhorse of the smaller bakery. It can handle a wide variety of pan configurations such as muffin, cupcake, sheet-cake and rounds with simple and fast changeover.



## HIGH PRODUCTIVITY SPEEDS PAYBACK

- ❑ **VERSATILITY INCREASES UTILIZATION** – The 5P-08WT tabletop depositor will accurately scale 2 to 8 ounces per/cylinder of batters ranging from thin cake batters to stiff muffin batters with frozen blueberries or high particulate content such as carrot cake. Easily interchanged product valves provide for different centerlines and ganging of cylinders to give greater weight per deposit. Fully adjustable side guides provide flexibility to handle a broad range of pan heights, widths, and layouts.
- ❑ The 5P-08WT tabletop depositor handles pans up to 26½" wide and can deposit up to 1200 dozen muffins/hr.

## GENTLE DEPOSITING IMPROVES PRODUCT QUALITY

- ❑ The short, unrestricted flow path and large port openings provide gentle handling of delicate particulates such as blueberries, raisins, nuts, and chocolate chips without crushing or bridging.

## ACCURATE SCALING REDUCES COST

- ❑ Consistent, accurate deposit weights reduce product giveaway.
- ❑ Rapid cycling reduces depositing labor
- ❑ Large port opening produce clean deposits and speeds flavor changes.

## SIMPLE OPERATION AND MAINTENANCE YIELDS RELIABILITY

- ❑ The 5P-08WT tabletop depositor is supplied with a clearly illustrated operator instructions and maintenance manual.
- ❑ Deposit weights are easily adjusted at the front of the depositor to accommodate batter density changes.
- ❑ Cycle speed is easily adjusted to match specific production requirements.
- ❑ A single switch allows either intermittent or continuous cycle operation of the reliable, oilless pneumatic drive.
- ❑ Side to side adjustability of pan guides and cutaway design of discharge area produces reliable centering on pans under the depositor.
- ❑ No tools are required for product valve changes or cleanup.
- ❑ Inexpensive, easy changed O ring seals are utilized.
- ❑ Daily Maintenance items are clearly labels on the machine.



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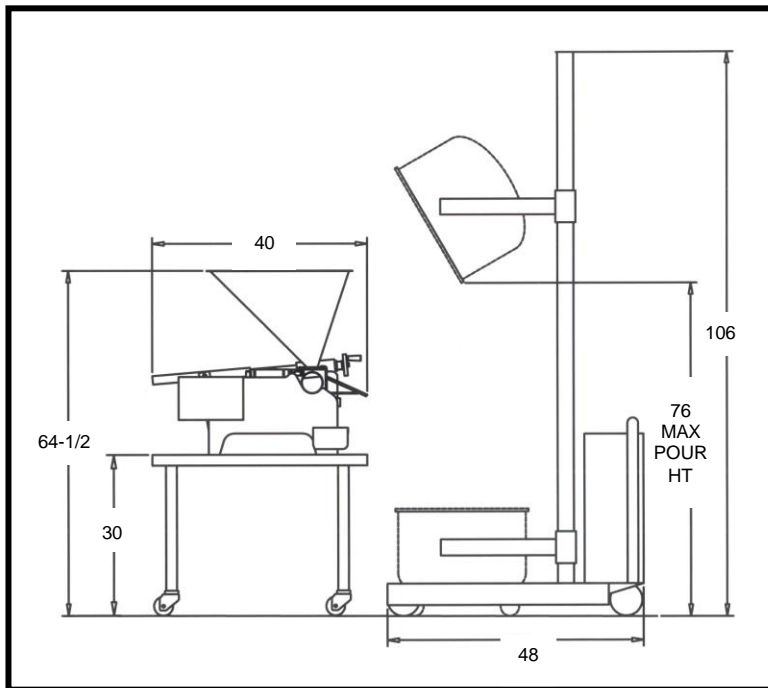
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HB272B

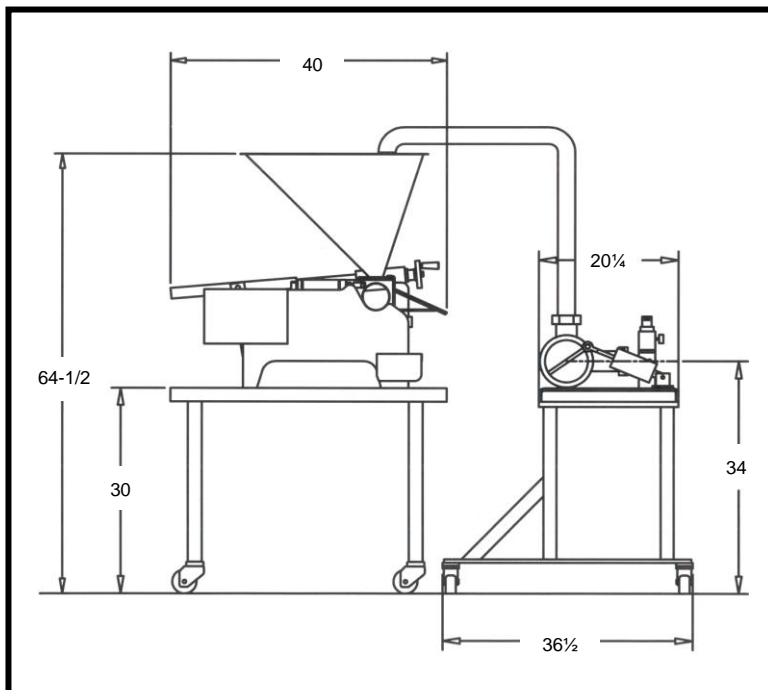
## EASILY CLEANED DESIGN MEETS HEALTH DEPARTMENT REQUIREMENTS

- BISSC listed to meet all health department sanitation requirements for in-store installations.
- The open design provides easy access for cleaning and sanitation of the food and splash zones.



### 5P-08WT WITH BOWL HOIST

- Fill the Depositor with a Bowl Hoist.
- Bowl hoist is ideal when producing single batches of different flavors of products.
- Safely lifts mixing bowl up to the hopper of depositor.



### 5P-08WT WITH HINDS-BOCK P-128 PRODUCT TRANSFER PUMP

- Fill the Depositor with a P-128 pump.
- Transfer pump is ideal when producing multiple batches of the same flavor of product.
- Can handle products with or without large particulates.

### TECHNICAL DATA

# OF PISTONS  
 HEIGHT  
 LENGTH  
 HOPPER WIDTH  
 HOPPER CAPACITY  
 PAN WIDTH  
 AIR REQUIREMENTS @ 80 PSI

### 5P-08WT

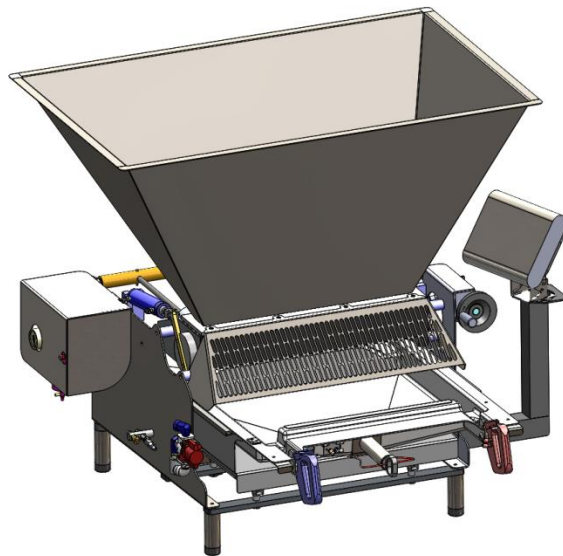
5  
 35½"  
 36"  
 44¼"  
 39 GALLONS  
 26½" – 18"  
 8 CFM



# Standard Operation Procedure:

## *Costco Table-Top Depositor – NSF Compliant*

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**HINDS-BOCK**

Partners in Production



Jan 2017

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## Overview

### Features

The Hinds-Bock “T” Series table-top muffin/cake batter depositors are designed to accurately deposit product using 3 to 5 pistons on the “NT” series, or 4 to 8 pistons on the “WT” series. The weight of each deposit can be adjusted between 2 to 8 ounces of product for each deposit. Modifications can be made for desired weights outside this range. Centerlines for each deposit cavity can be specified to meet the desired pan layout.

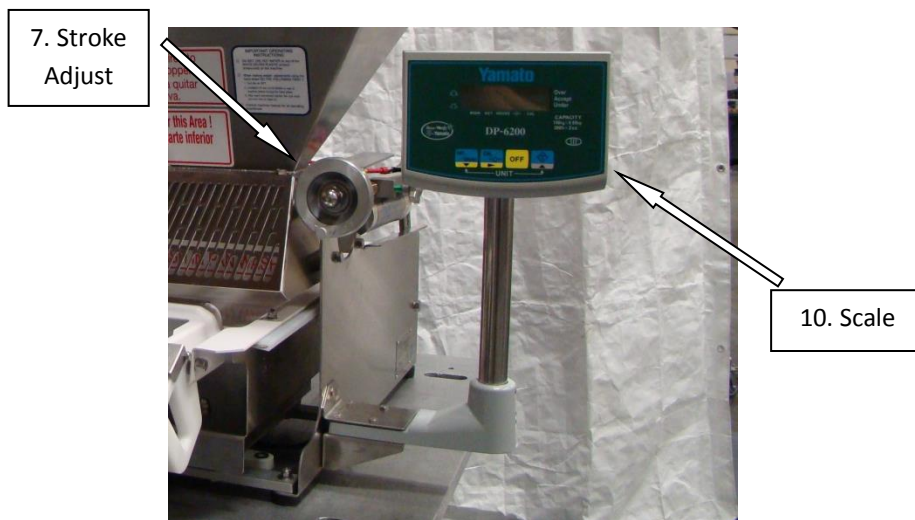
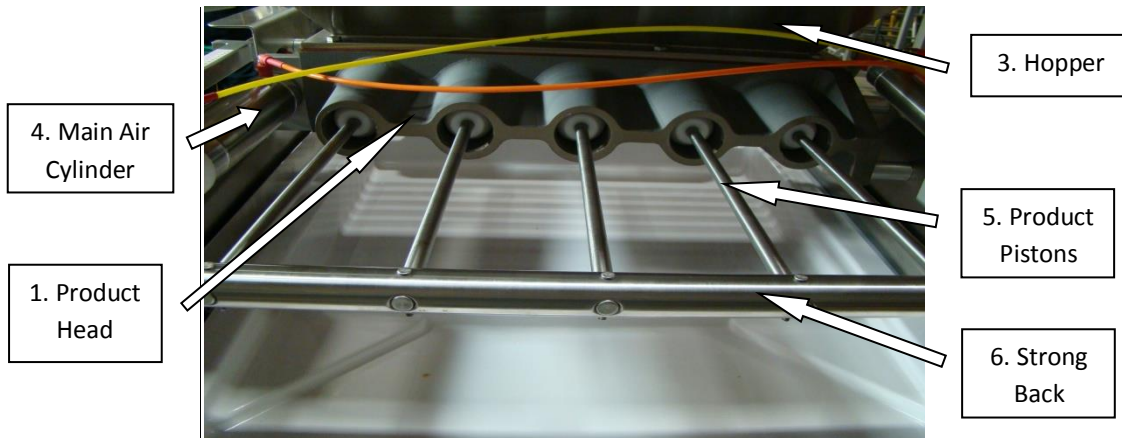
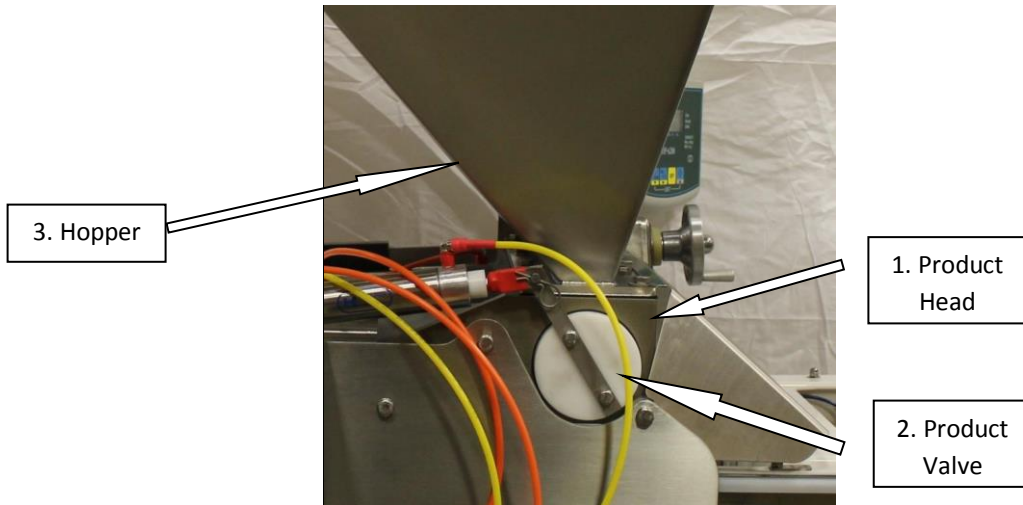
### Setup

Mount the depositor on its designated table. Verify that all components have been cleaned properly before attaching the appropriate air and power to the system. The depositor requires 80-90psi during the deposit process.

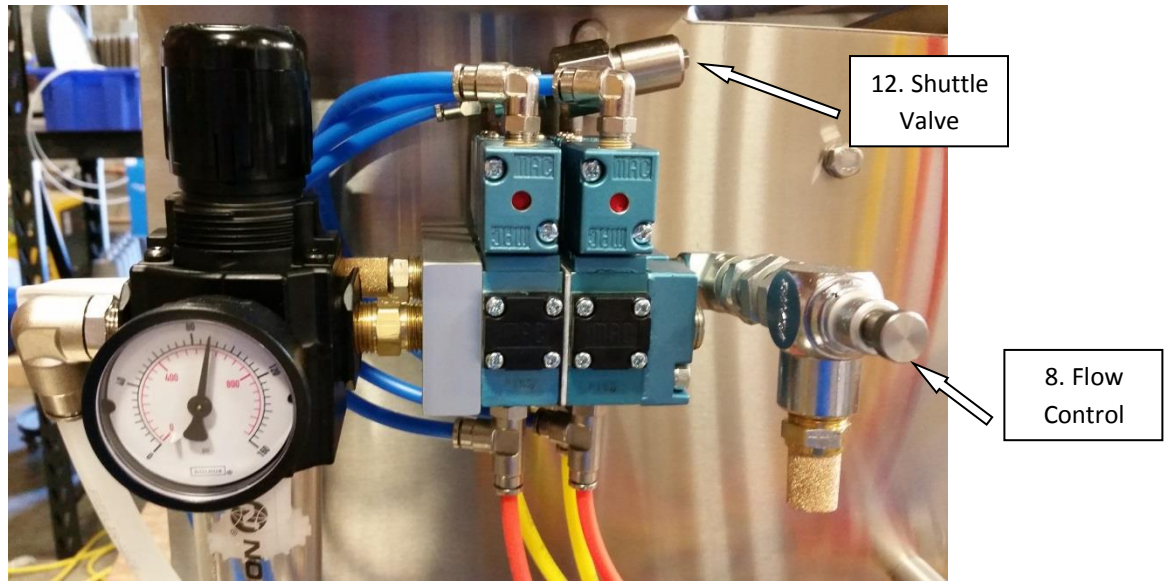
### Nomenclature

1. Product Head: Holds the product valve in line with the product pistons. Product head bores are part of the metering portion in each deposit.
2. Product Valve: Provides a flow path for the product from the hopper to the product head bores during the suction stroke, and then switches to provide a flow path from the bores to the pan.
3. Hopper: Holds product supply for depositing process. Mounted on top of the product head.
4. Main Air Cylinder: Used to push (deposit) and pull (suction) the product pistons while in the product head for each deposit cycle.
5. Product Pistons: Each piston is attached to a piston rod and each piston rod is attached to the strong back. Part of the metering portion in each deposit.
6. Strong Back: Holds product pistons in place while being driven by the main air cylinders.
7. Stroke-Adjust: The stroke-adjust is used to adjust the deposit weights. Adjusting the length of stroke controls how much product is deposited each time. The stroke-adjust indicator is for reference only.
8. Flow Control: Reduces the air flow through the system, as a result, the user has control of how fast the system operates.
9. Safety Tray: Requires two hands to trigger the depositor to cycle. The product pan gets placed inside the safety tray.
10. Scale: Metering scale that is used to check the weight of each deposit.
11. Hand Guard: Prevents operator from placing their hand near moving machinery parts which could cause injury.
12. Shuttle Valve: Permits only one deposit per press of the triggers.









## Components

### Product Valve

Provides a flow path for the product from the hopper to the product head bores during the suction stroke, and then switches to provide a flow path from the bores to the pan.



Figure 1: Product Valve

### Removing the Product Valve

To remove the product valve, make sure that the supply air is turned off and disconnected. Once that is done, remove the pin that attached the product valve arm to the air cylinder and lift the lock bar, which is located on the opposite side of the product head, away from the product valve. Pull the product valve out with a rotational motion to avoid breaking the O-rings.



Figure 2: Removing the Product Valve

### Checking the Product Valve

With the product valve out of the product head, check to see if there is any damage to the valve or O-rings. If the O-rings show any signs of wear (i.e. knicks, gouges, grooves, or flat spots) then they will need to be replaced.

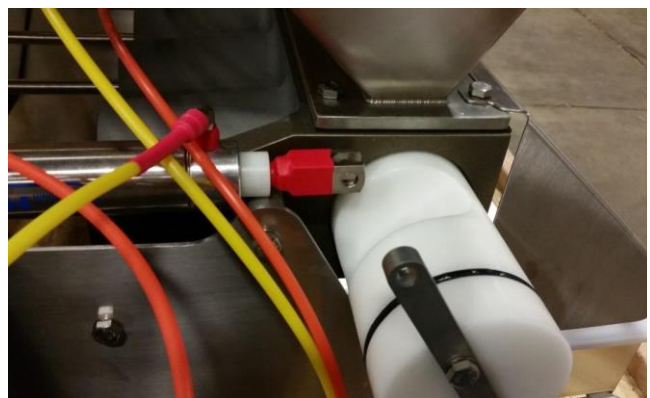


Figure 3: Checking the Product Valve

### Replacing Product Valve O-Rings

If O-rings show any signs of wear, they should be replaced immediately. When replacing or reinstalling O-rings onto the product valve, be sure to use Petrol-Gel to lubricate the O-rings as you put them on.

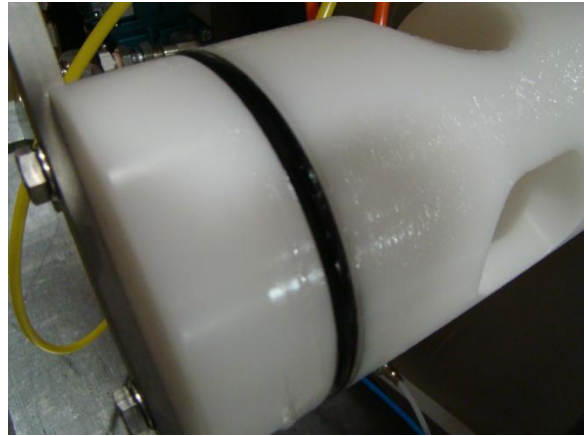


Figure 4: Replacing Product Valve O-Rings

### Installing the Product Valve

After the product valve and O-rings have been cleaned, add more Petrol-Gel to both O-rings so that the product valve will have lubrication during production. Insert the product valve with a rotational motion to help prevent the O-rings from catching on the ports in the product head. If there is resistance, pull the product valve out and try again.

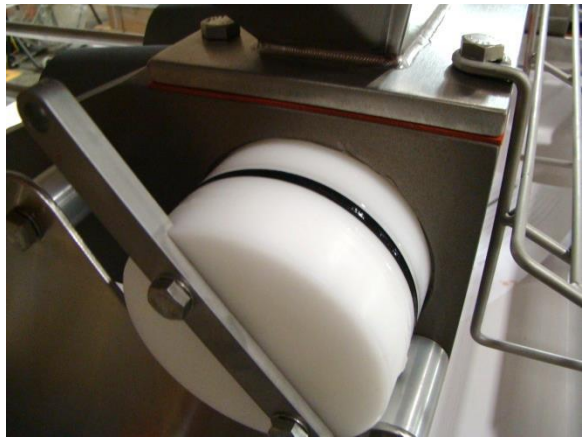


Figure 5: Installing the Product Valve

### Product Pistons

Each piston is attached to a piston rod and each piston rod is attached to the strong back. As a result, the product pistons are driven in and out of the product head by the main air cylinders.



Figure 6: Product Pistons

### Removing the Product Pistons

To remove the product pistons, change the stroke-adjust to allow the strong back to come all the way back. Once the strong back is in its rear most position, remove the pins from the piston rods and pull them out of the strong back.



Figure 7: Removing the Product Pistons

### Checking the Product Pistons

Once the product pistons are out, check to see if there is any damage to the piston or O-rings. If the O-rings show any signs of wear (i.e. knicks, gouges, grooves, or flat spots) then they will need to be replaced.

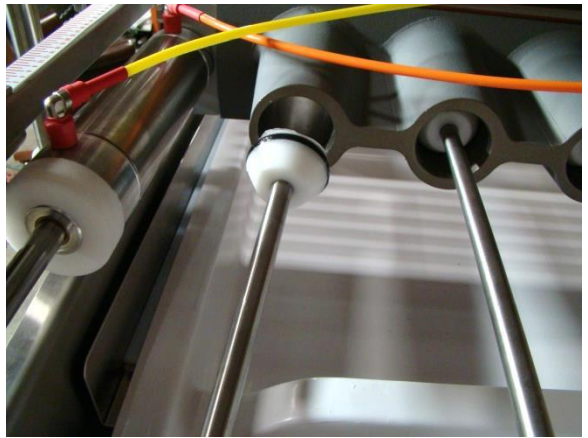


Figure 8: Checking the Product Pistons

### Replacing Product Piston O-Rings

If O-rings show any signs of wear, they should be replaced immediately. When replacing or reinstalling O-rings onto the pistons, be sure to use Petrol-Gel to lubricate the O-rings as you put them on.



Figure 9: Replacing Product Piston O-Rings

### Installing the Product Pistons

Before installing the product pistons, add Petrol-Gel to the O-rings. Attached the product pistons on to the pistons rods, then slide the piston rods into the strong back and insert the pins.

\*Stroke-adjust should be set so that product pistons cannot come out of the product head during production.

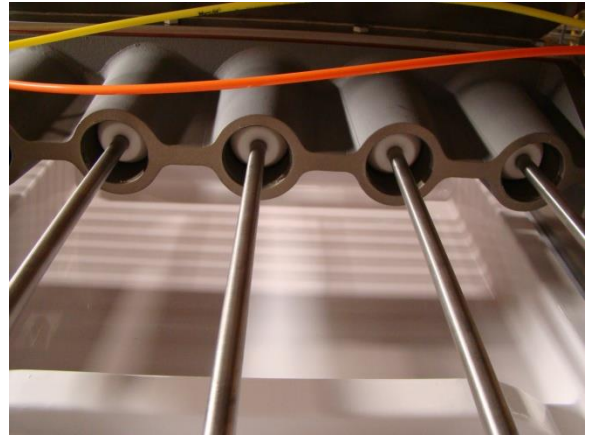


Figure 10: Installing the Product Pistons

### Stroke-Adjust

The stroke-adjust is used to change how far the strong back can retract during the suction process. This should be set to provide the necessary volume for each deposit. Be sure to loosen the lock knob before adjustments are made.

\*The stroke-adjust indicator is for reference only.



Figure 11: Stroke-Adjust

### Stroke-Adjust Placement

During production, the stroke-adjust should be set so that each deposit yields the correct amount of product.

During maintenance or cleaning, the stroke-adjust should be set so that the product pistons can be pulled out of the product head.

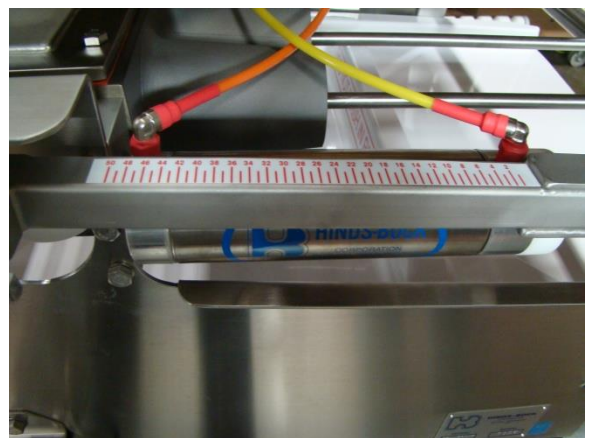


Figure 12: Stroke-Adjust Placement

### Tray Drain Plug

The Tray Drain allows for water to drain from the tray when cleaning or sanitizing. The drain can be opened pulling the plug from the metal drain tube to allow water to drain into a bucket. When reinserting the drain plug, verify that it is clean and lubricated.

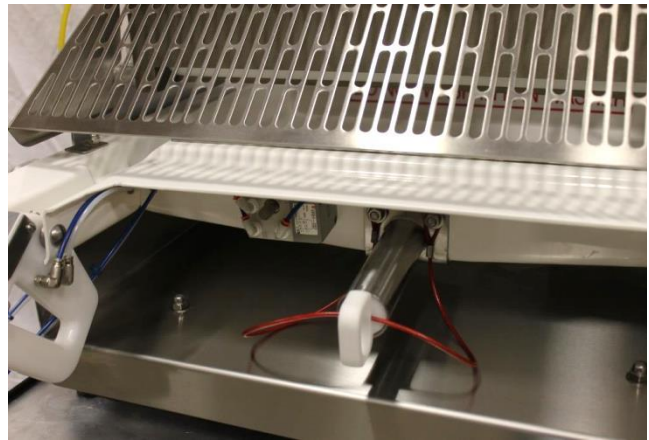


Figure 13: Tray Drain Plug

### Air Pressure Regulator

The air pressure regulator is used to maintain a constant pressure in the system. Avoid pressure drops greater than 10psi. If the pressure does drop more than 10psi, the CFM being supplied to the depositor may be too low. Maintain a consistent air pressure in the system (80-90psi) to achieve best results.



Figure 14: Air Pressure Regulator

### Adjusting the Air Pressure

To adjust the air pressure, pull out on the black knob and rotate. Be sure to lock the regulator after adjustment.

**\*WARNING:** Never set the air pressure higher than 125psi!



Figure 15: Adjusting the Air Pressure

## Scale

The scale is used to measure the deposit amount after each deposit. If the scale calibration is off, please contact the scale manufacturer for assistance.



Figure 16: Scale

## Safety Tray

The safety tray allows the user to place the product pan in and to trigger the deposit with both hands. Both triggers must be pressed simultaneously, and only one deposit occurs when the triggers are held down. This is a safety feature because both hands must be on the triggers for the depositor to cycle.



Figure 17: Safety Tray

## Safety Tray Setup

Slide the tray into the correct position. Attach quick-release airlines to the correct fittings on the side of the depositor. The depositor will only dispense if both hand triggers are pressed simultaneously.

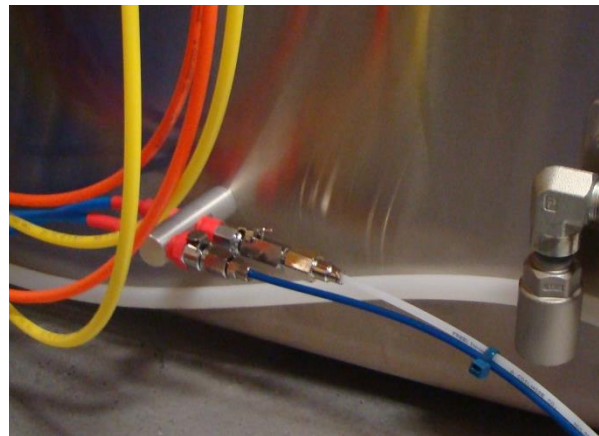


Figure 18: Safety Tray Setup

## Safety Procedures

### Pinch Points

There are several pinch points that should be avoided while the system is running. Avoid moving parts while the system has air or power. If you need to get to one of these parts, use the air dump valve to exhaust all of the air from the system.



Figure 19: Pinch Points

### Air Dump Valve

To remove energy from the system, use the air dump valve. This will exhaust all of the air from the system.

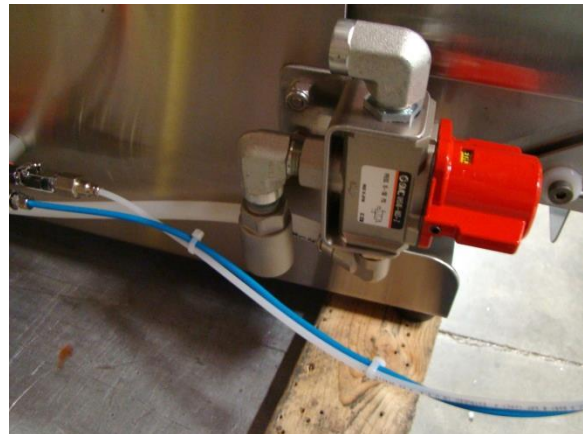


Figure 20: Air Dump Valve

### Hand Guard

The hand guard at the front of the depositor helps prevent hands and fingers from getting into potentially harmful areas.



Figure 21: Hand Guard



## Cleaning

### Safety Tray Drain

The drain collects water after cleaning or sanitizing, so that it can be drained without removing the safety tray.

If water leaks from around the drain, tighten down the bolts securing it to the safety tray.



Figure 22: Safety Tray Drain

### Cleaning the Hopper

To clean the hopper, start by rinsing it out with lukewarm water while cycling the depositor continuously. After the hopper has been rinsed, fill it back up and add cleansing solution. Scrub the hopper side walls and then rinse the hopper.

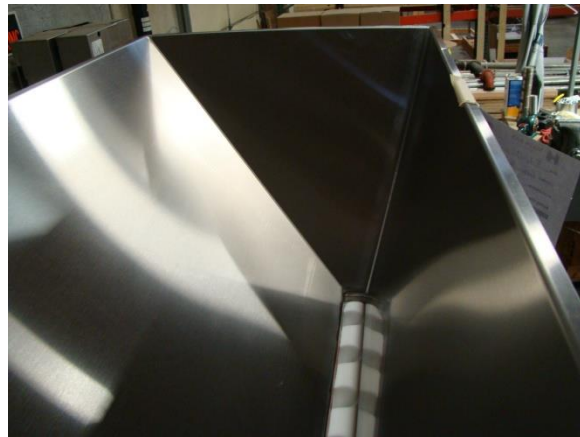


Figure 23: Cleaning the Hopper

### Cleaning Depositor Components

After cleaning the hopper, remove the product valve and product pistons. Remove the O-rings for both items and clean them. Check all components and O-rings for damage.

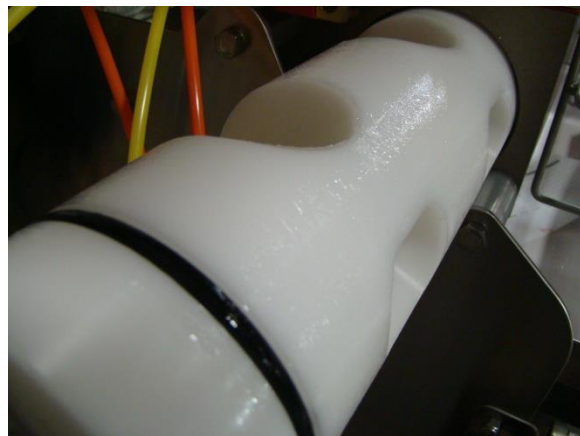


Figure 24: Cleaning Depositor Components

## Sanitizing the System

Before starting production, sanitize anything that comes into contact with the product. This should be done just before starting production to help avoid any contaminants from getting into the system. After sanitizing the system, run lukewarm water through it to rinse it out.



Figure 25: Sanitizing the System

## Maintenance

### Daily Maintenance Checks

Check the depositor daily for any signs of wear. Some of the things that should be checked daily are airlines, fittings, pins, and various components like the product valve and product pistons.



Figure 26: Daily Maintenance Checks

### Common Wear Items

Items that are most common to wear out should also be checked daily. The most common items to wear out are the O-rings for the product valve and for the product pistons. These need to be checked daily for any signs of damage or wear.



Figure 27: Common Wear Items

## Two Hand Control Valve

The two hand control valve prevents the machine from actuating unless both triggers are pressed simultaneously. Take care not to damage the valve or clog the valve muffler.

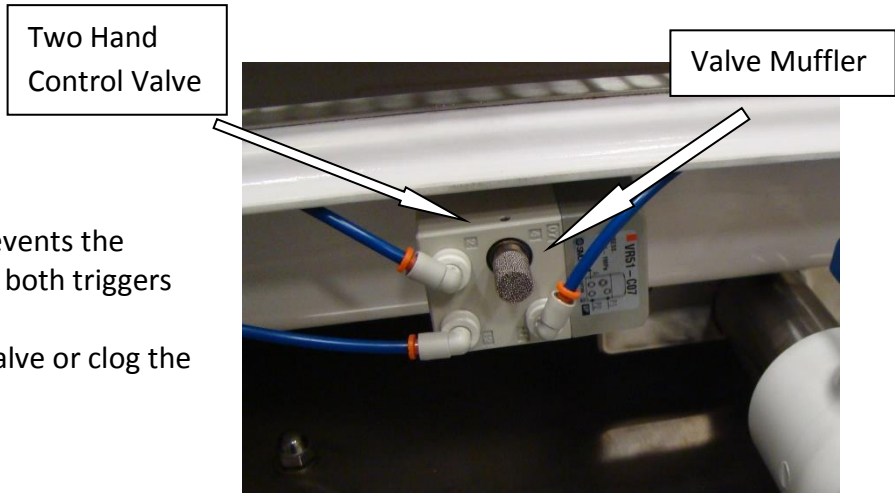


Figure 28: Two Hand Control Valve

## Operation

### Deposit Trigger

Each deposit is triggered by the safety tray hand triggers. The hand triggers can be only pressed once for a single deposit. It cannot be held down for multiple deposits in a row. This is a safety feature.



Figure 29: Deposit Trigger

### Adjusting Weight Deposits

Adjust the weight of each deposit by bringing the stroke-adjust forward or backward. Do this by rotating the hand wheels in either direction. Be sure to loosen the lock knob before attempting to make adjustments.

\*The stroke-adjust indicator is for reference only.

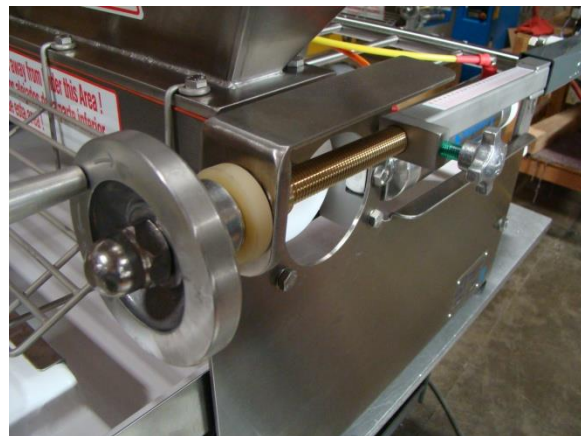


Figure 30: Adjusting Deposit Weights

### **Flow Control**

Use the flow control to adjust the cycle rate of the depositor. The user can either increase or decrease the air flow through the system; as a result, increasing or decreasing the cycle rate of the depositor.



**Figure 31: Flow Control**

## Troubleshooting

### Problem:

Depositor accuracy is off between each of the deposit ports.

### Solution:

- Check air pressure. Machine should hold 80-90psi while depositor in operation. If pressure drops below 80psi, adjust the regulator by pulling out on the black knob and rotating. If it does not stay above 80psi after adjusting the regulator, have the air compressor checked.
  - A minimum diameter of 3/8" or 1/2" is required on the supply line from the compressor to the depositor to carry sufficient CFM to the equipment. An in-line air dryer is highly recommended.
- Replace the O-rings on the product pistons and product valve. If O-rings are worn out or not properly lubricated with Petrol-Gel, air will bleed past and cause the weights to be off.

### Problem:

Delrin product valve or product pistons seize up.

### Solution:

- The Delrin product valve or product pistons will expand when exposed to heat. The heat could have come from the product. Depending on the product, the product valve and product pistons can be exposed to excess friction. The excess friction causes the product valve and product pistons to heat up. If this is the case, let the system sit and allow the Delrin parts to cool. It may be necessary to modify the product valve or pistons to prevent them from seizing up.
- The product valve and product pistons can also heat up due to the product temperature or the temperature of the water used to clean the hopper. If the product or water temperature is above 110 ° F, the Delrin will expand. If the product valve or product pistons seize up, put cold water in the hopper and let the Delrin cool down. For this reason it is important to use only lukewarm water when cleaning the hopper and Delrin components.

## Problem:

Depositor is depositing erratically or has stopped depositing completely.

## Solution:

- Due to unclean air, the pneumatic valves can stop functioning correctly. Put one or two drops of mineral oil in pneumatic valves. If that doesn't solve the issue, order a new set of valves through the Hinds-Bock Parts department.
  - Check air supply to verify that the Hinds-Bock equipment is getting clean air.
- The system has a pulse valve in line with one of the pneumatic valves. If the supply air is not completely clean, then the pulse valve can clog and cause the system to deposit erratically or not at all. If this is the case, remove the pulse valve with a wrench and connect the blue airlines directly into the pneumatic valve (bypassing the pulse valve). If this corrects the problem, then replace the pulse valve.
  - Check air supply to verify that the Hinds-Bock equipment is getting clean air.
- The depositor requires 80-90psi while it is cycling. If the air pressure drops lower than 55psi, the depositor will not be able to cycle properly. The same issue will occur if there is a pressure drop greater than 10psi. If the air pressure starts out at 80-90psi and drops more than 10psi during the cycling process, then the air supply is too low and more CFM is needed. Check the compressor to determine if it can provide enough pressure and CFM. If so, make sure that the supply airlines to the depositor are large enough, and that there isn't an excess of flexible hose used.
  - Hard piping the air close to the depositor location and then using a short flexible hose to attach to the depositor will help prevent CFM loss from the flexible hose expanding and retracting.



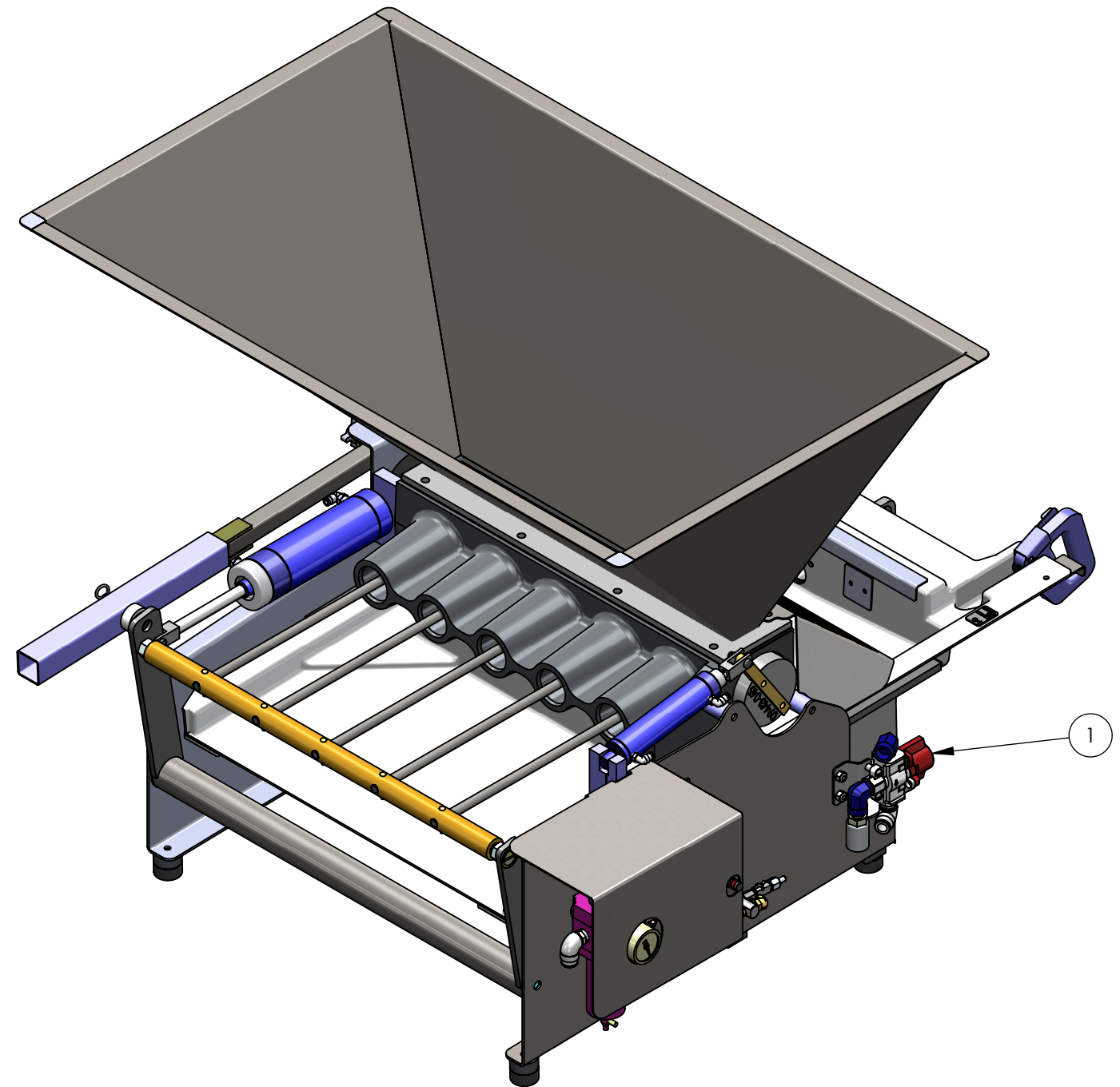
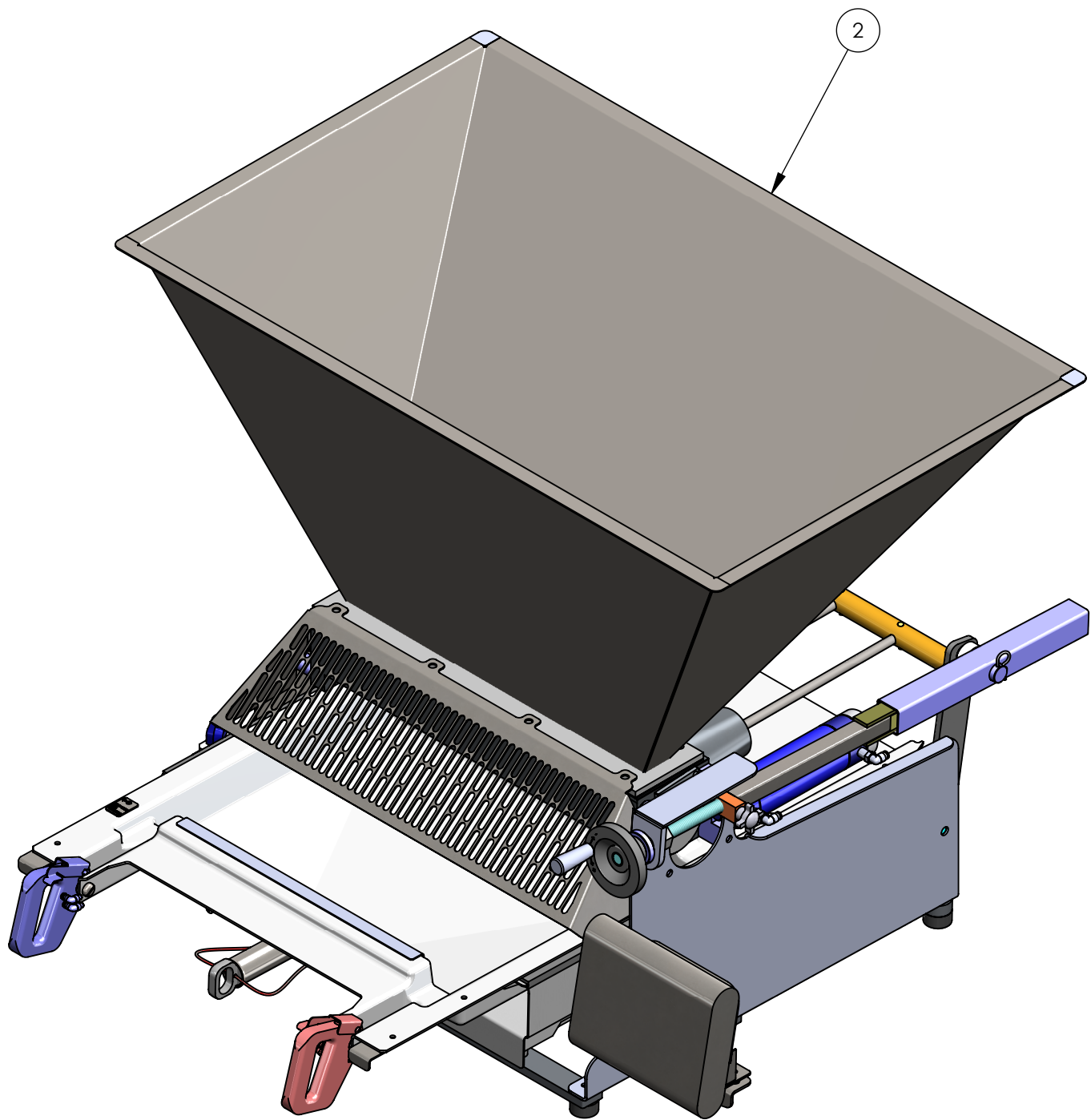
## Warranty

**SELLER WARRANTS EQUIPMENT OF ITS OWN MANUFACTURE TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP. THIS WARRANTY EXTENDS ONLY TO THE ORIGINAL BUYER AND IS LIMITED TO REPAIR OR REPLACEMENT F.O.B. SELLER'S FACTORY OF ANY ORIGINAL PART OR COMPONENT MANUFACTURED BY SELLER WHICH IS FOUND BY SELLER TO HAVE BEEN DEFECTIVE AT THE TIME OF SHIPMENT, PROVIDED WRITTEN CLAIM HAS BEEN RECEIVED FROM BUYER WITHIN SIX MONTHS OF SHIPMENT AND SUCH ORIGINAL PART OR COMPONENT IS RETURNED PREPAID TO SELLER.**

**THIS WARRANTY APPLIES ONLY TO THE EQUIPMENT INSTALLED AND OPERATED IN ACCORDANCE WITH HINDS-BOCK CORPORATION'S RECOMMENDATIONS AND SUCH WARRANTY DOES NOT APPLY WHERE HINDS-BOCK CORPORATION DETERMINES THAT ANY CLAIMED DEFECT AROSE AS A RESULT OF PURCHASER'S MISUSE, NEGLIGENCE, IMPROPER INSTALLATION, REPAIR, ALTERATION, ACCIDENT OR NORMAL WEAR AND TEAR WITH RESPECT TO ANY EQUIPMENT DELIVERED HEREUNDER.**

**WITH RESPECT TO THE EQUIPMENT, MATERIALS, PARTS AND ACCESSORIES MANUFACTURED BY OTHERS, SELLER WILL UNDERTAKE TO OBTAIN FOR BUYER THE FULL BENEFIT OF THE MANUFACTURER'S WARRANTIES. SELLER WILL NOT BE LIABLE FOR ANY LOSS OF PROFIT, LOSS BY REASON OF PLANT SHUTDOWN, NON-OPERATIONAL OR INCREASED EXPENSE OF OPERATION, LOSS OF PRODUCT OR MATERIALS, OR OTHER SPECIAL OR CONSEQUENTIAL LOSS OR DAMAGE OF ANY NATURE, AND ALL CLAIMS FOR SUCH LOSS OR DAMAGE ARE EXPRESSLY WAIVED BY BUYER.**





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**MECHANICAL PARTS LISTING**

**ASSY - CORE 5P-08WT w/EST & NSF COMPLIANT**

**09443NSF**



ITEM #	PART #	QTY	U/M	NOTES	DESCRIPTION
1	09443578	1	EA	A	NEW LOCKOUT KIT
2	09443810	1	EA	A	CORE 5P-08WT T.T. (NSF)
3	LABELKIT1	1	EA	NS	COSTO LABEL KIT (ENG/SPAN)
4	LAB027	1	EA	NS	LABEL NSF MARK



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**MECHANICAL PARTS LISTING**

**ASSY - CORE 5P-08WT w/EST & NSF COMPLIANT**

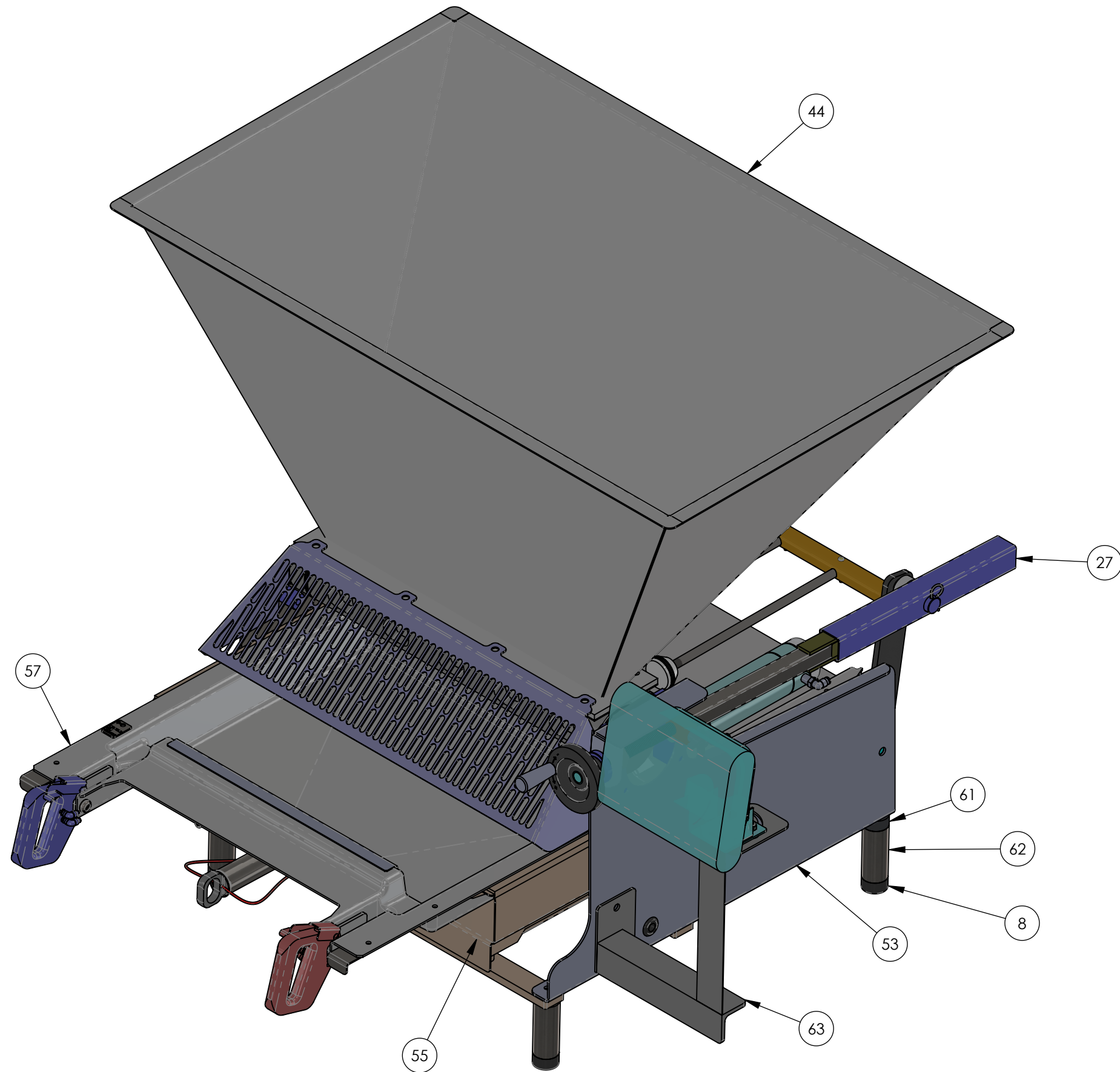
**09443NSF**

**NOTES:**

**A.** SEE SEPARATE PARTS LISTING

**NS** NOT SHOWN

SHEET 2 OF 2



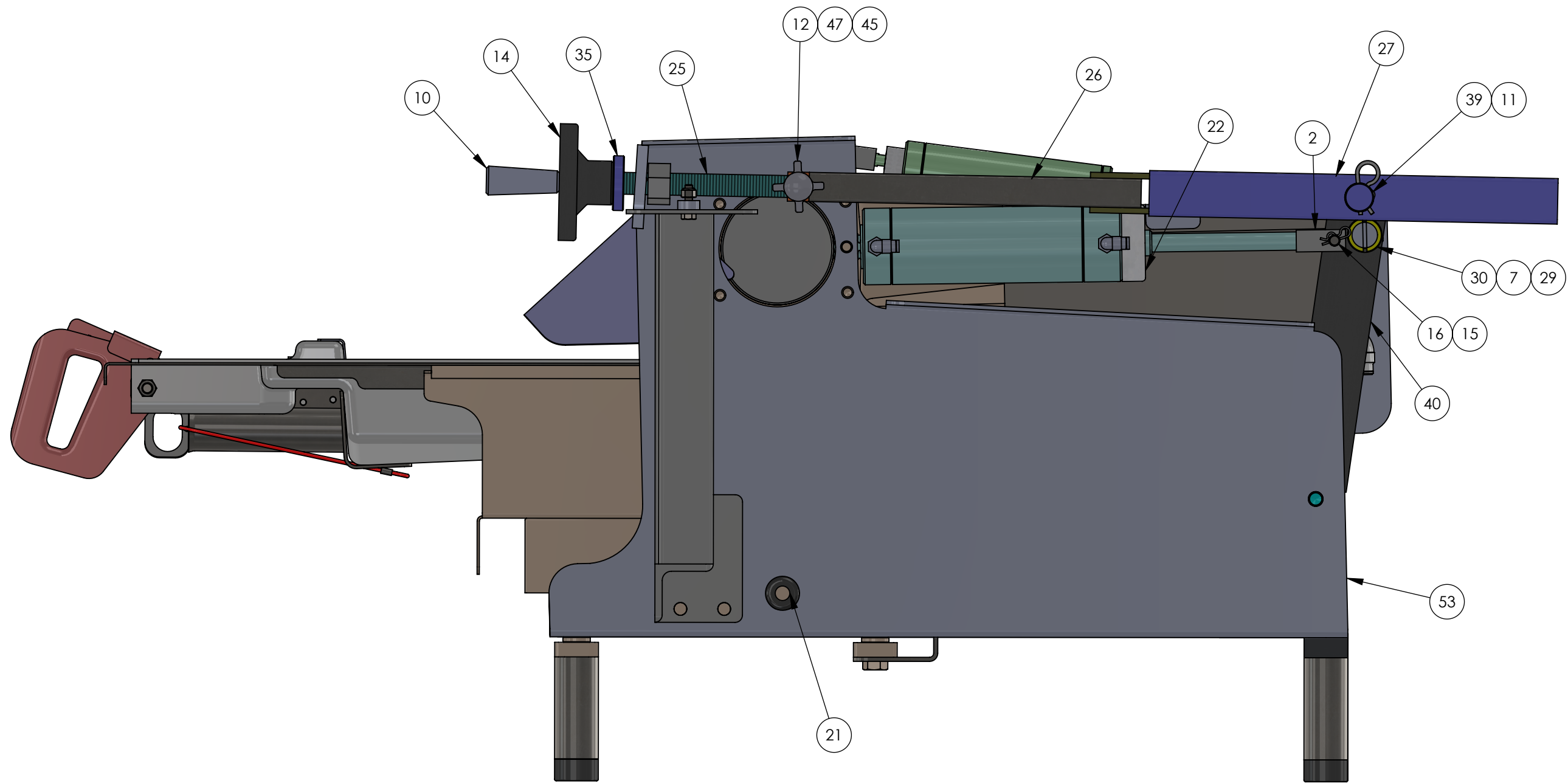
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**MECHANICAL PARTS LISTING**

**ASSY - CORE 5P-08WT EST - NSF COMPLIANT**

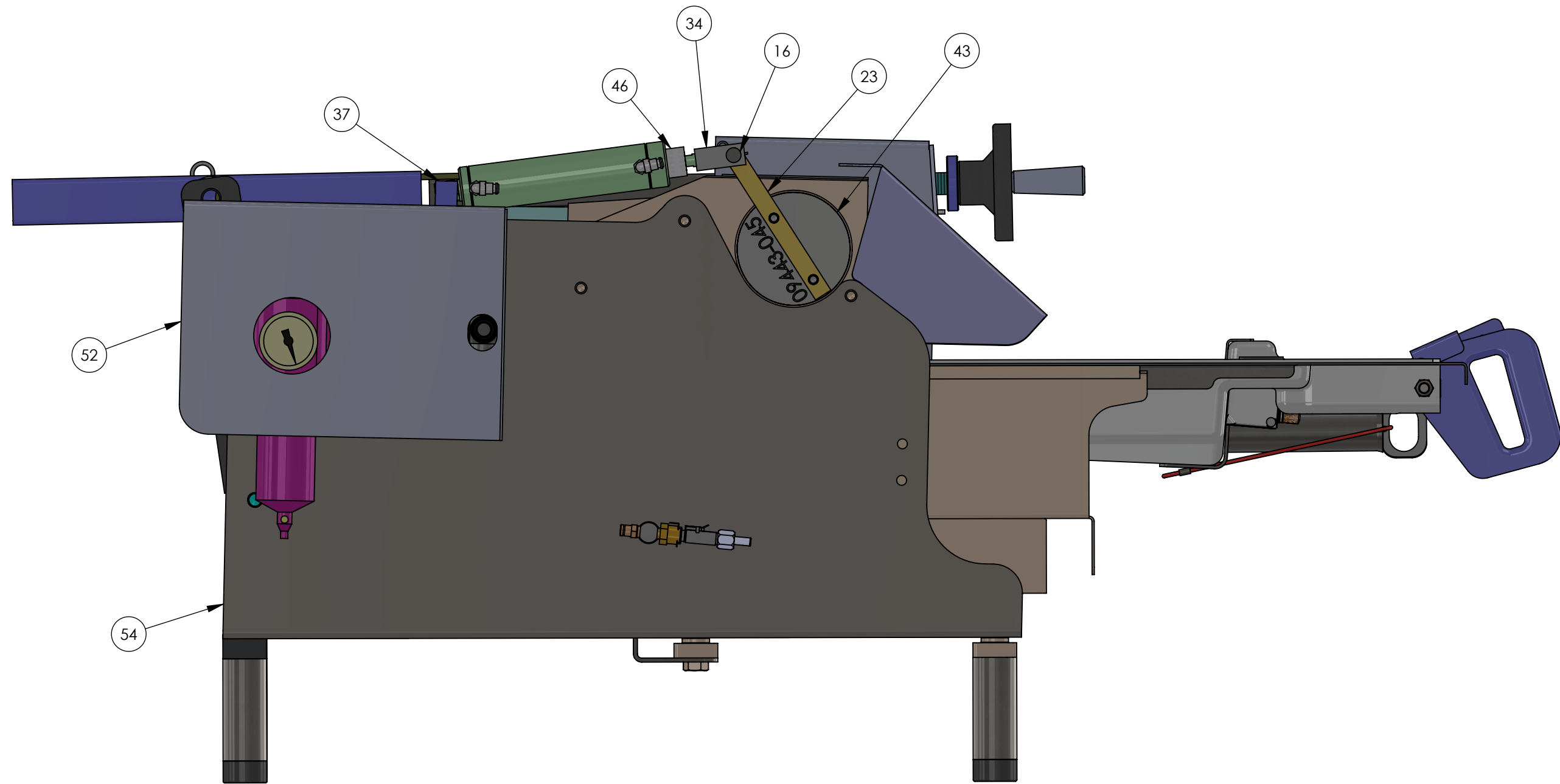
**09443810**



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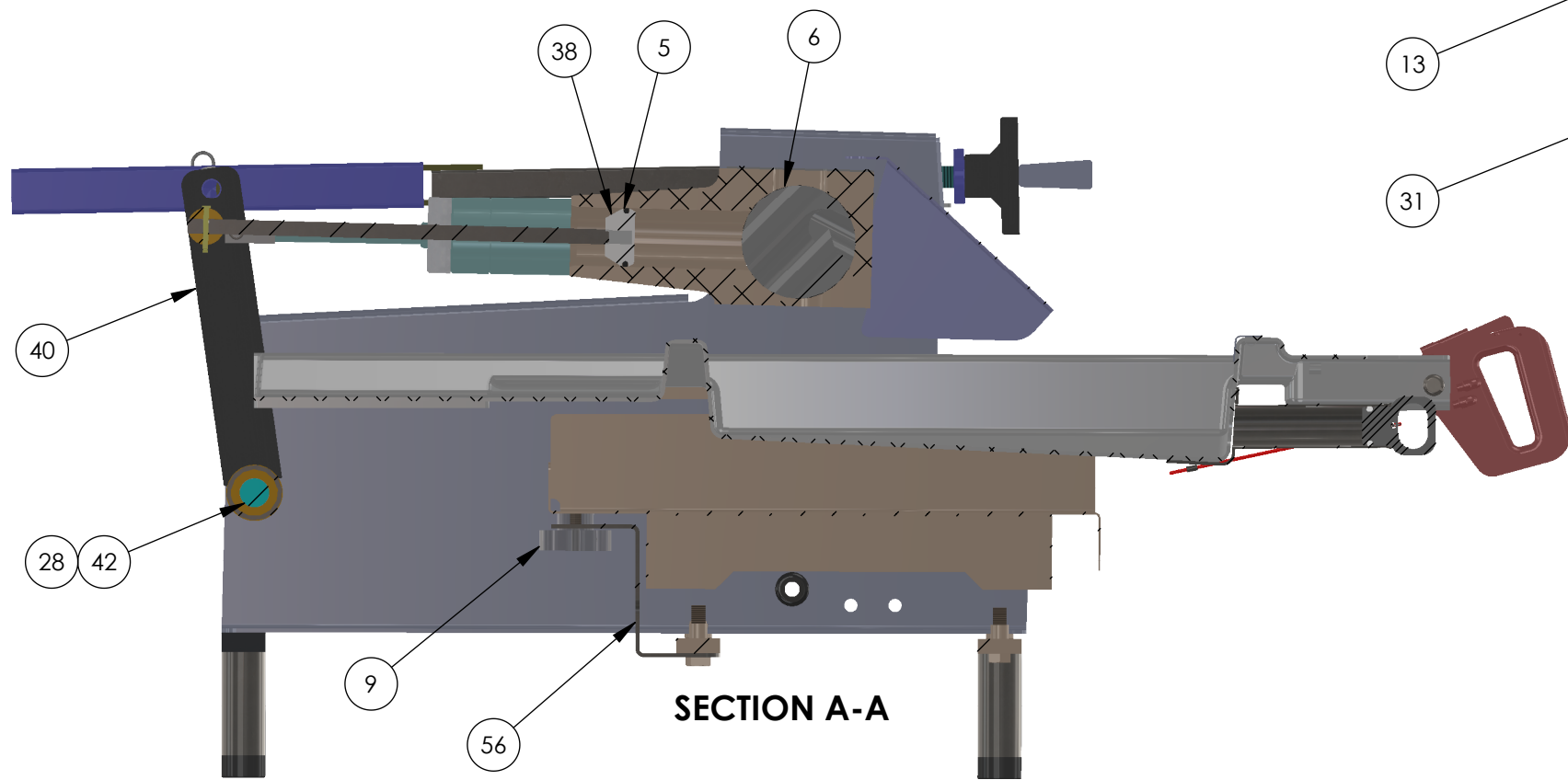
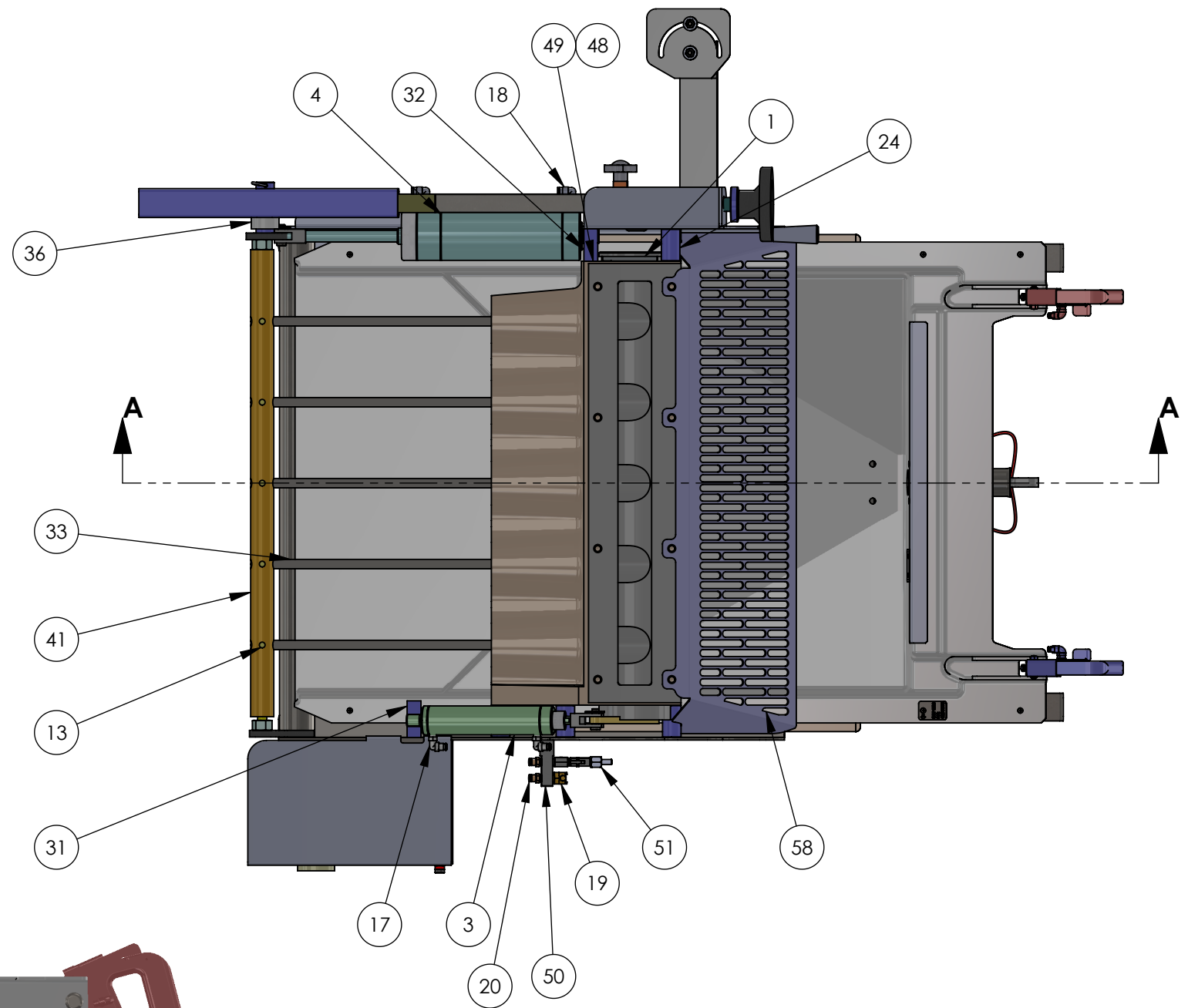
**MECHANICAL PARTS LISTING**  
**ASSY - CORE 5P-08WT EST - NSF COMPLIANT**  
**09443810**



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**MECHANICAL PARTS LISTING**  
**ASSY - CORE 5P-08WT EST - NSF COMPLIANT**  
**09443810**



SECTION A-A



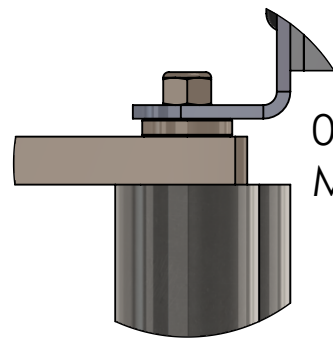
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MECHANICAL PARTS LISTING

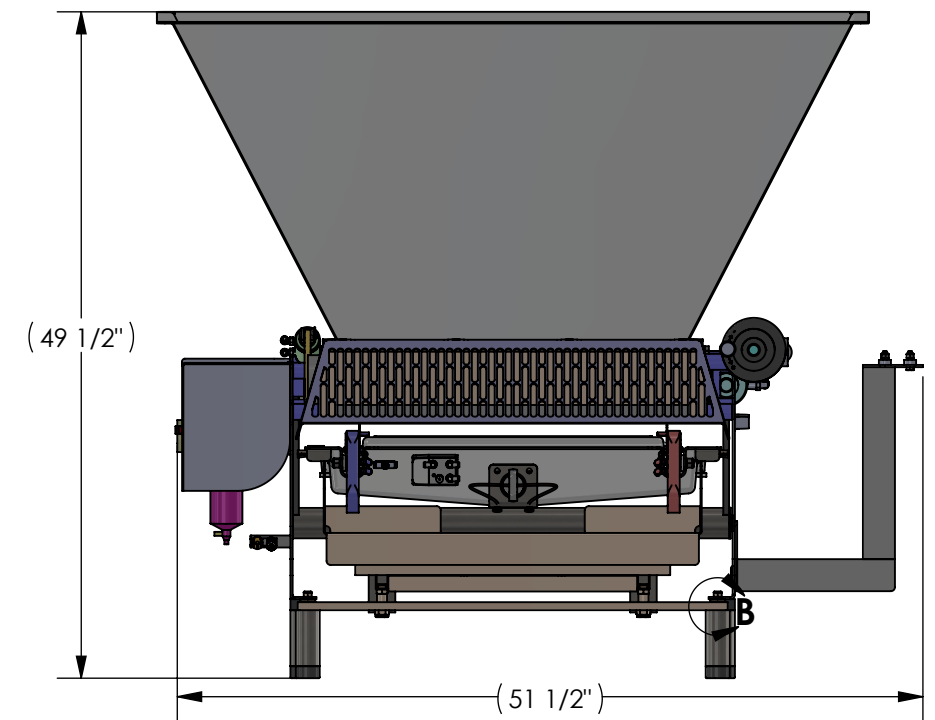
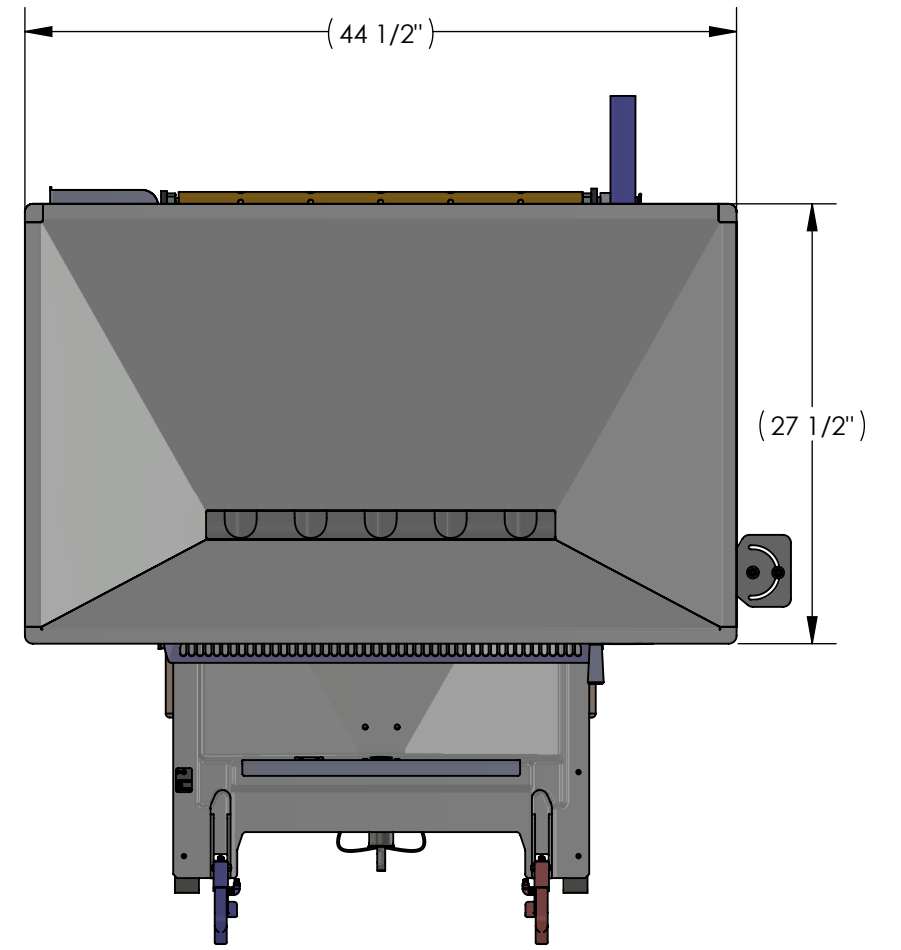
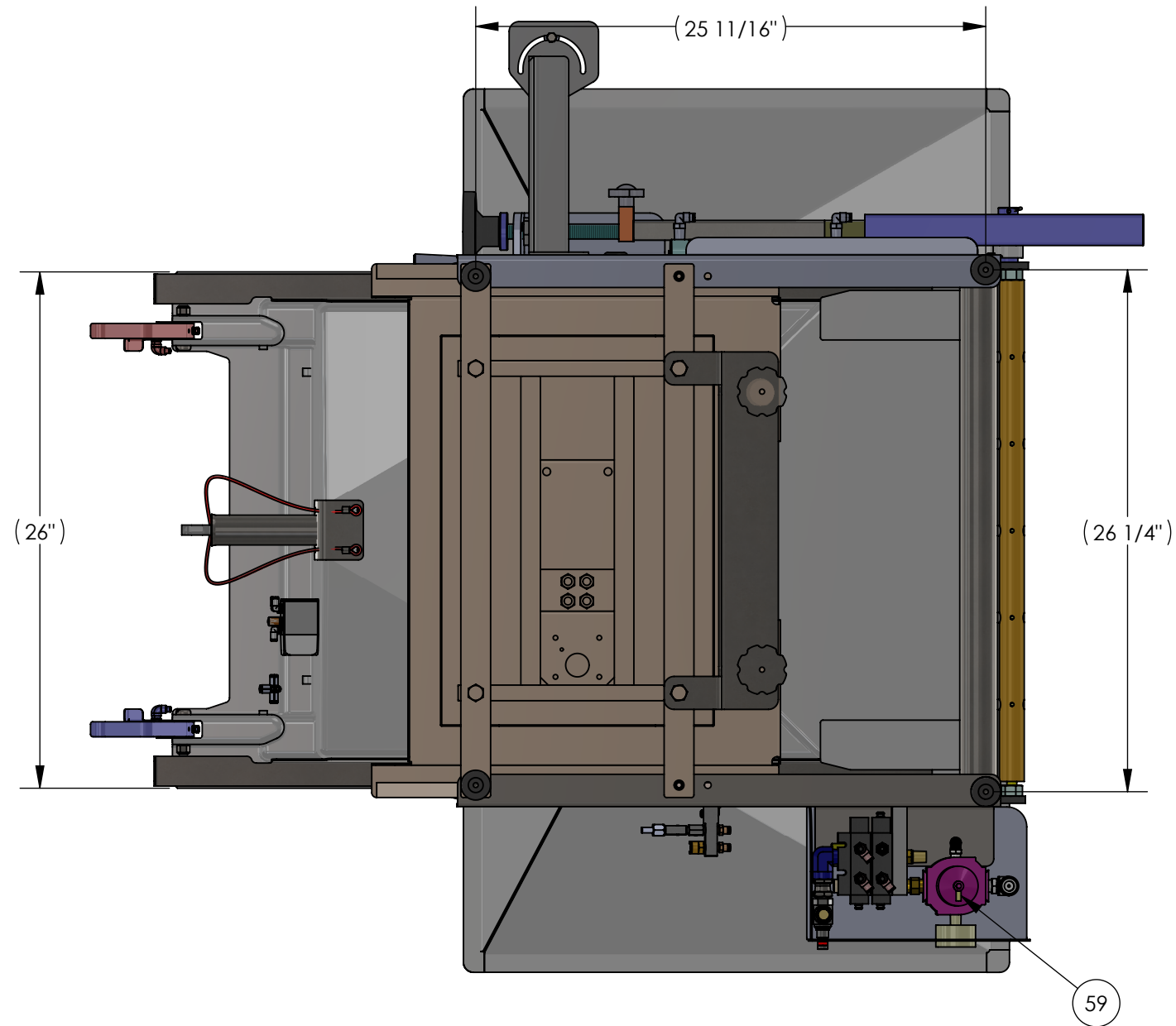
ASSY - CORE 5P-08WT EST - NSF COMPLIANT

09443810



09443818 IS BELOW SHEET METAL AND SPACER.

DETAIL B



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MECHANICAL PARTS LISTING

ASSY - CORE 5P-08WT EST - NSF COMPLIANT

09443810

ITEM #	PART #	QTY	U/M	NOTES	DESCRIPTION
1	00119001	1	EA		LOCK BAR, STD
2	09155115	1	EA		CLEVIS 1/2"-20 THRD PLTD
3	09155870	1	EA		CYL AIR 1-1/2"Bx4"S w/ BMPRS
4	09155871	1	EA		CYL AIR 2-1/2"Bx5"S
5	09180670	5	EA		ORING BUNA 1-5/8x2x3/16D
6	09180693	2	EA		ORING BUNA 3-1/2x3-7/8x3/16D
7	09181843	2	EA		CAP HOLE PLUG 3/8" PLASTIC
8	09184721	4	EA		BUMPER RECESSED RUBBER 1-1/2"
9	09186609	2	EA		FLUTED-RIM KNOB 5/16"-18 F THROUGH
10	09190124	1	EA		HANDLE 1/4-20 NC
11	09190327	1	EA		PIN HITCH .125"D 7/16" SHAFT
12	09190533	1	EA		KNOB HAND 1-3/4" D 5/16" X 7/8" DP
13	09190607	5	EA		PIN CLEVIS 3/16"Dx1-1/2"L SS
14	09190622	1	EA		WHL HAND STRK ADJ 3/4"-10THR
15	09190637	2	EA		PIN COTTER HAIRPIN 3/8"-7/16"
16	09190638	2	EA		PIN CLEVIS 3/8" DIA x 1" L
17	09192007	2	EA		ELBOW MALE T-M-NPT 1/4x1/8
18	09192009	2	EA		ELBOW MALE T-M-NPT 1/4x1/4
19	09192037	1	EA		Q.D. 1/8MNPT 5/8HEX SHUT-OFF
20	09192086	2	EA		CONN HEXHD&SK T-M-NPT 1/4x1/8
21	09193332	1	EA		GROMMET BUNA 1/2"IDx1-1/16"OD
22	09215002	1	EA		CAP CYL END DEL 1-3/8-12 THRD
23	09443005	1	EA		BAR, PROD VLV
24	09443007	5	EA		SPACER
25	09443008	1	EA		STROKE ADJ ROD
26	09443009	1	EA		STROKE STOP
27	09443011	1	EA		PLASTIC TUBE
28	09443012	2	EA		BRG, DELRIN
29	09443013	2	EA		SPACER BRG DEL
30	09443014	2	EA		PIVOT SCREW
31	09443018	1	EA		BRACKET
32	09443019	1	EA		CYLINDER MOUNT
33	09443021	5	EA		PISTON ROD
34	09443024	1	EA		CLEVIS PLTD
35	09443025	1	EA		BUMPER URETHANE, 0.38"L
36	09443028	1	EA		BUMPER DELRIN, .62"L
37	09443037	1	EA		SPACER, CYL MOUNT
38	09443040	5	EA		PISTON PROD DEL 2"DIA
39	09443041	1	EA		PIN - PIVOT ARM
40	09443042	1	EA		ARM PIVOT WIDE
41	09443043	1	EA		STRONGBACK WIDE
42	09443044	1	EA		BAR SPACER WIDE ALUM
43	09443045	1	EA		PRODUCT VALVE, 5 PORT
44	09443048	1	EA		HOPPER 40 GAL WIDE w/BASE
45	09443053	1	EA		LOCK PLUG
46	09443056	1	EA		COVER NOSE
47	09443057	1	EA		COVER THREAD KNOB
48	09443060	1	EA		GASKET 5PWT SIL 4137
49	09443397	1	EA		5P-08 HEAD
50	09443514	1	EA		MANIFOLD TRAY
51	09443525	1	EA		Q.D. 5/32T 1/8NPT DBL SHUT ASSY
52	09443584	1	EA		PNEUMATIC COVER
53	09443811	1	EA		WELDMENT - STROKE SIDE PLATE
54	09443812	1	EA		STROKE SIDE PLATE - OPP
55	09443814	1	EA	A	ASSY - 5P-08WT TABLE TOP TRAY SUPPORT
56	09443819	1	EA		TRAY VERT SLIDE BRKT
57	09443900	1	EA	A	ASSY - SAFETY TRAY W/ DRAIN
58	09443962	1	EA		SAFETY GUARD
59	09443PV2	1	EA	A	ASSY - POWER VALVE, SINGLE SHOT
60	K0144	1	EA		MISC NUTS/BOLTS/WASHERS
61	09443822	2	EA		SPACER 1.5"OD x.38"ID x.69"L SS
62	09443902	4	EA		1.50"OD x 3.50"L STANDOFF, 5/16-18 UNC
63	09443825	1	EA		SCALE MNT BRKT



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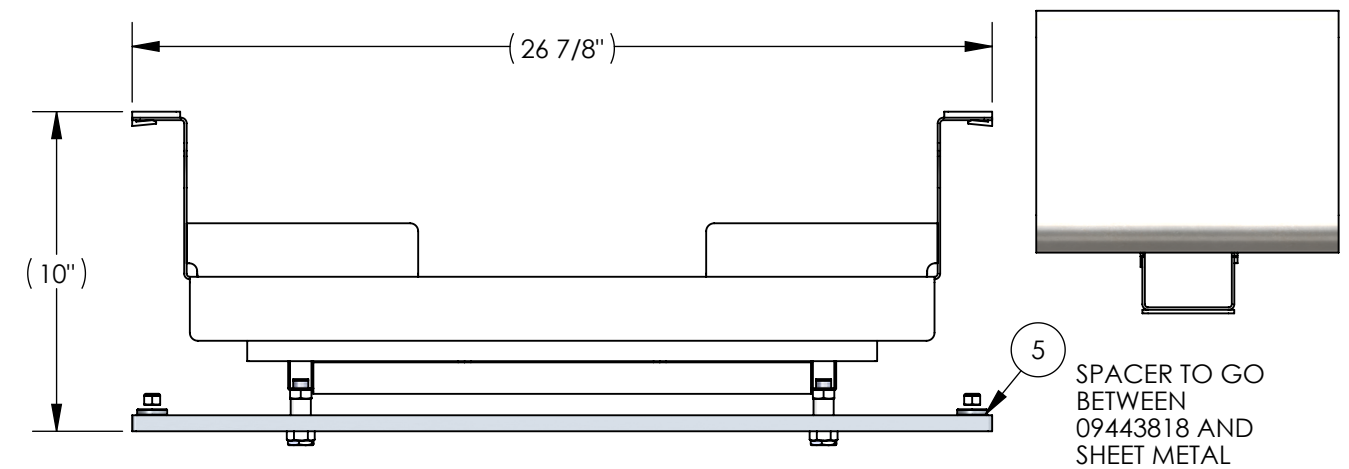
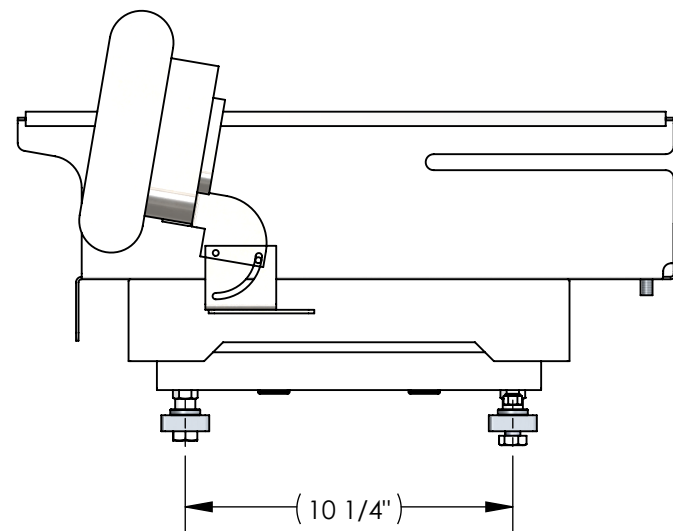
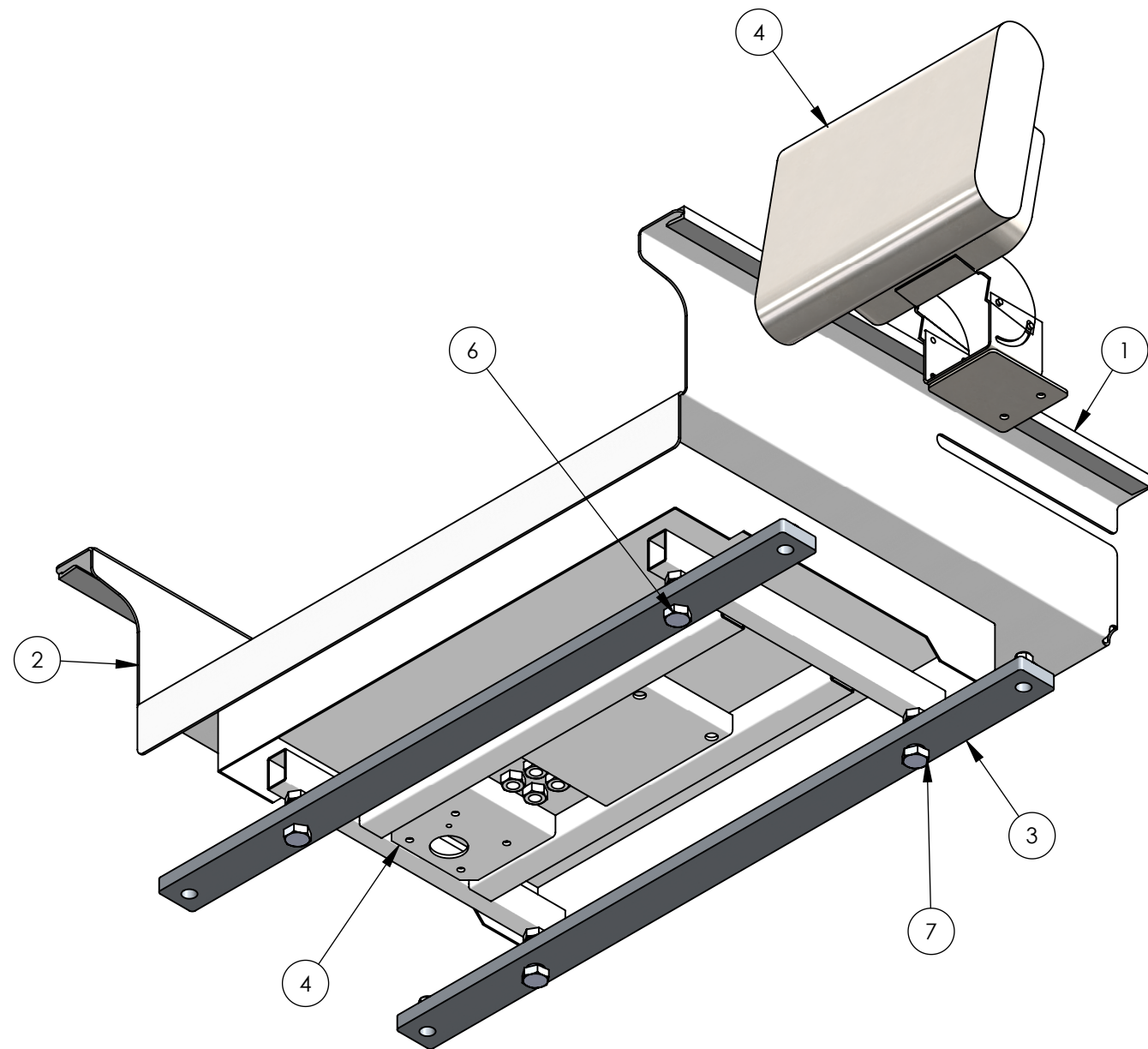
**MECHANICAL PARTS LISTING**

**ASSY - CORE 5P-08WT EST - NSF COMPLIANT**

**09443810**

**NOTES:**

**A.** SEE SEPARATE PARTS LISTING



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**MECHANICAL PARTS LISTING**

**ASSY - TABLE TOP TRAY SUPPORT NSF**

**09443814**



ITEM #	PART #	QTY	U/M	NOTES	DESCRIPTION
1	09184323	2	EA		WEAR STRIP J-LEG 1-1/2" [x20.00"L]
2	09443817	1	EA		WLDMNT - 5P-08WT TABLE TOP TRAY SUPPORT BRKT, SLIDING HEIGHT
3	09443818	2	EA		SCALE SUPPORT FRAME BAR
4	09187006	1	EA		SCALE (DP-6700 PLATFORM)
5	09184701	4	EA		WASHER THICK .391IDx.938ODx.188
6	HB010-M12-40MM	2	EA		HEX CAP SCREW M12 x40mmL SS
7	HB010-M12-45MM	2	EA		HEX CAP SCREW M12 x45mmL SS



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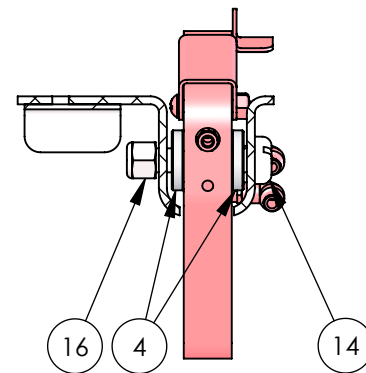
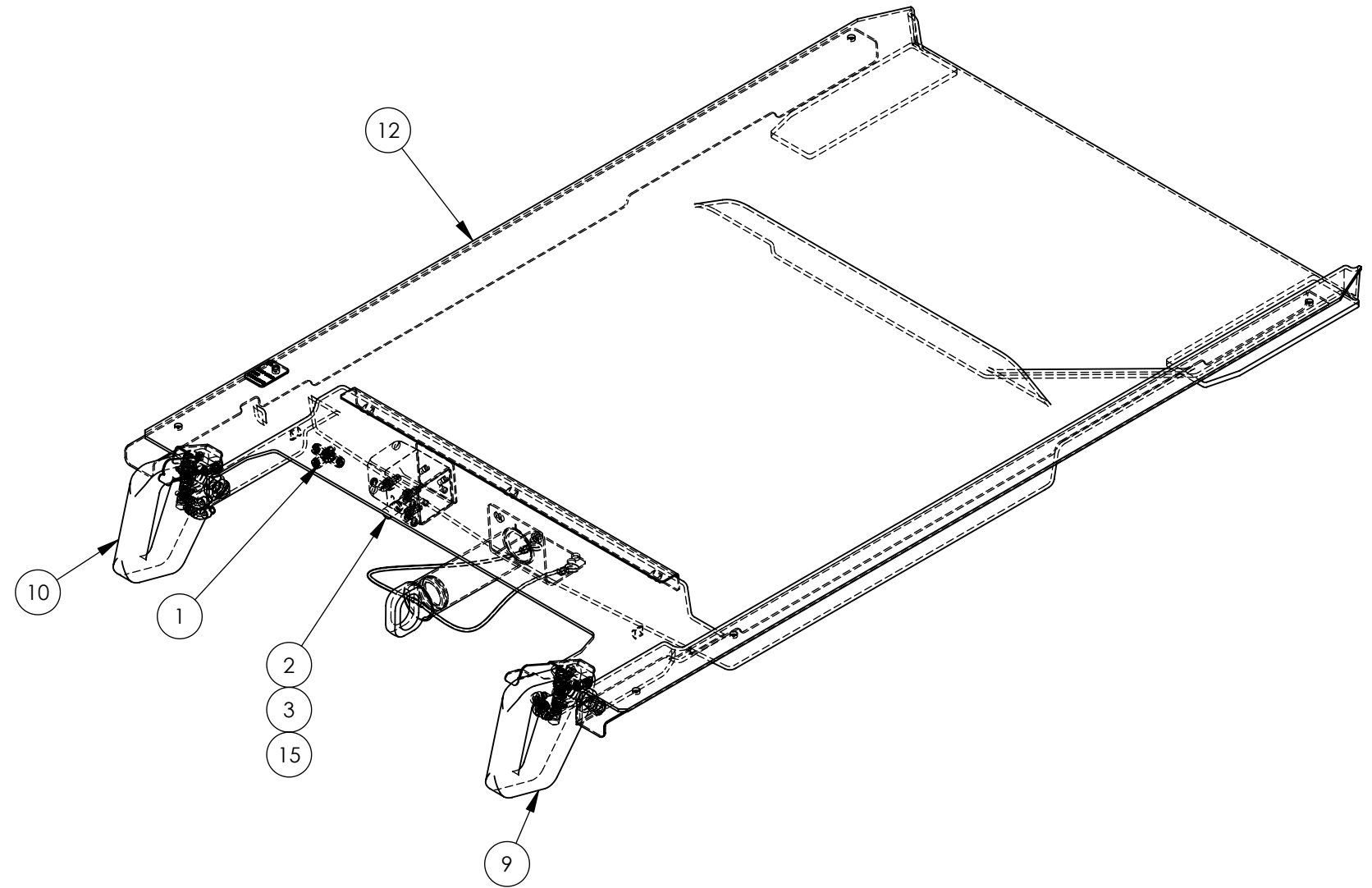
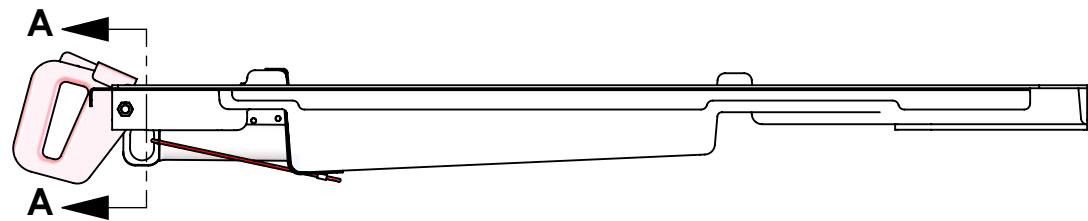
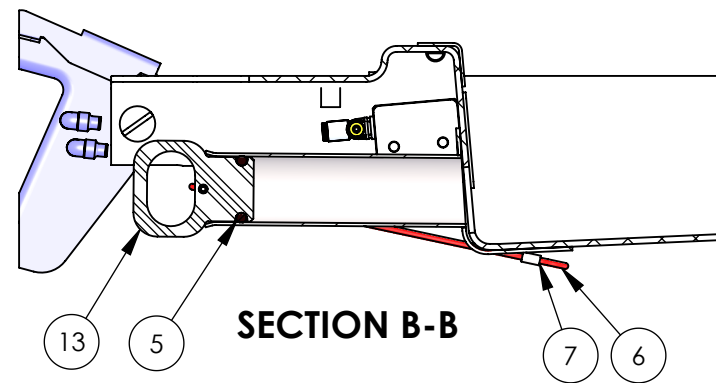
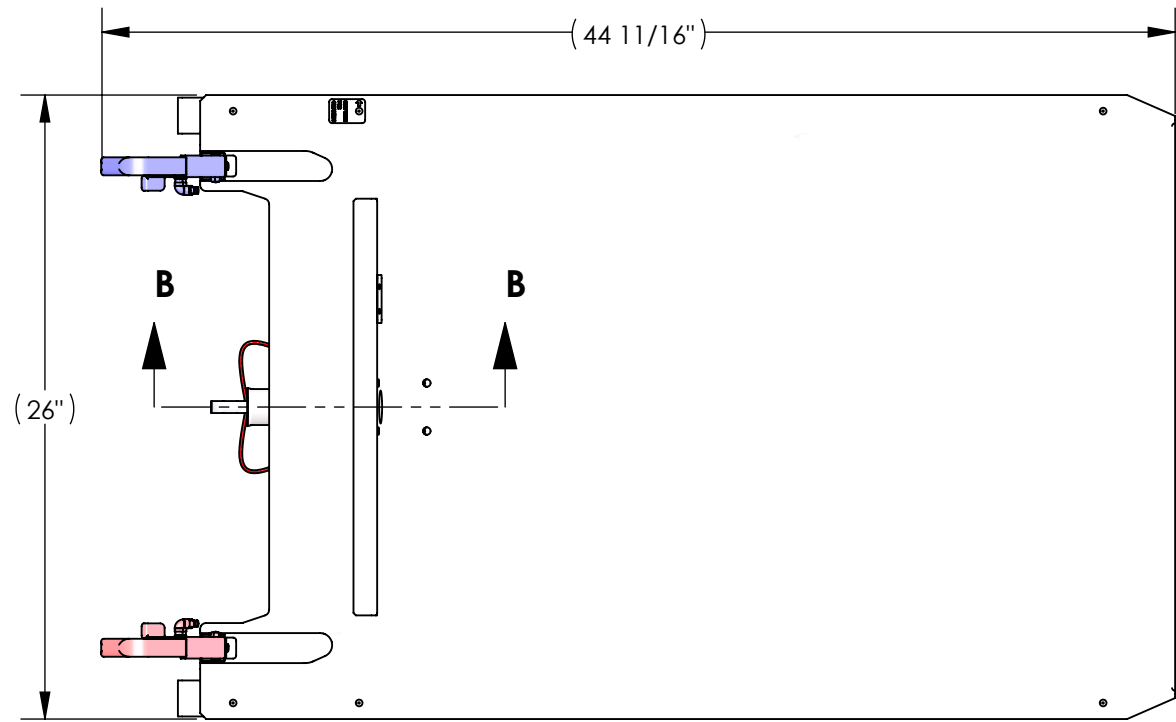
**MECHANICAL PARTS LISTING**

**ASSY - TABLE TOP TRAY SUPPORT NSF**

**09443814**

**NOTES:**

**A.** SEE SEPARATE PARTS LISTING



**SECTION A-A**



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**MECHANICAL PARTS LISTING**

**SAFETY TRAY ASSY**

**09443900**

ITEM #	PART #	QTY	U/M	NOTES	DESCRIPTION
1	09156983	1	EA		UNION "T" 5/32" TUBE
2	09157971	1	EA		CHECK VLV VR TWO HND CNTRL
3	09158023	3	EA		ELBOW UNION 90° 5/32"Tx1/4"T
4	09184701	4	EA		WASHER THICK .391IDx.938ODx.188
5	09184867	1	EA		O-RING, 318 BUNA FDA
6	09186478	1	EA		WIRE ROPE 1/8"D #180 18-8SS, VINYL COATED - RED
7	09186479	2	EA		CRIMP SLEEVE 304SS - 1/8"D WIRE ROPE
8	09192446	1	EA	NS	Q.D. 5/32T M SHUT-OFF
9	09443473	1	EA		5P T.T. SAFETY TRAY HNDL ASSY - RIGHT
10	09443474	1	EA		5P T.T. SAFETY TRAY HNDL ASSY - LEFT
11	09443525	1	EA	NS	Q.D. 5/32T 1/8NPT DBL SHUT ASSY
12	09443906	1	EA		TABLE TOP SAFETY TRAY - TAPERED DRAIN
13	09443908	1	EA		SAFETY TRAY DRAIN PLUG, FOR 1-1/2 POLISHED TUBE
14	09443909	2	EA		CUSTOM PANSLOHEAD 3/8-16x2" SS
15	09443932	1	EA		CONTROL VALVE END CAP
16	HB140-06C-00SS	2	EA		NUT SELF LOCK NY INS 3/8-16 SS



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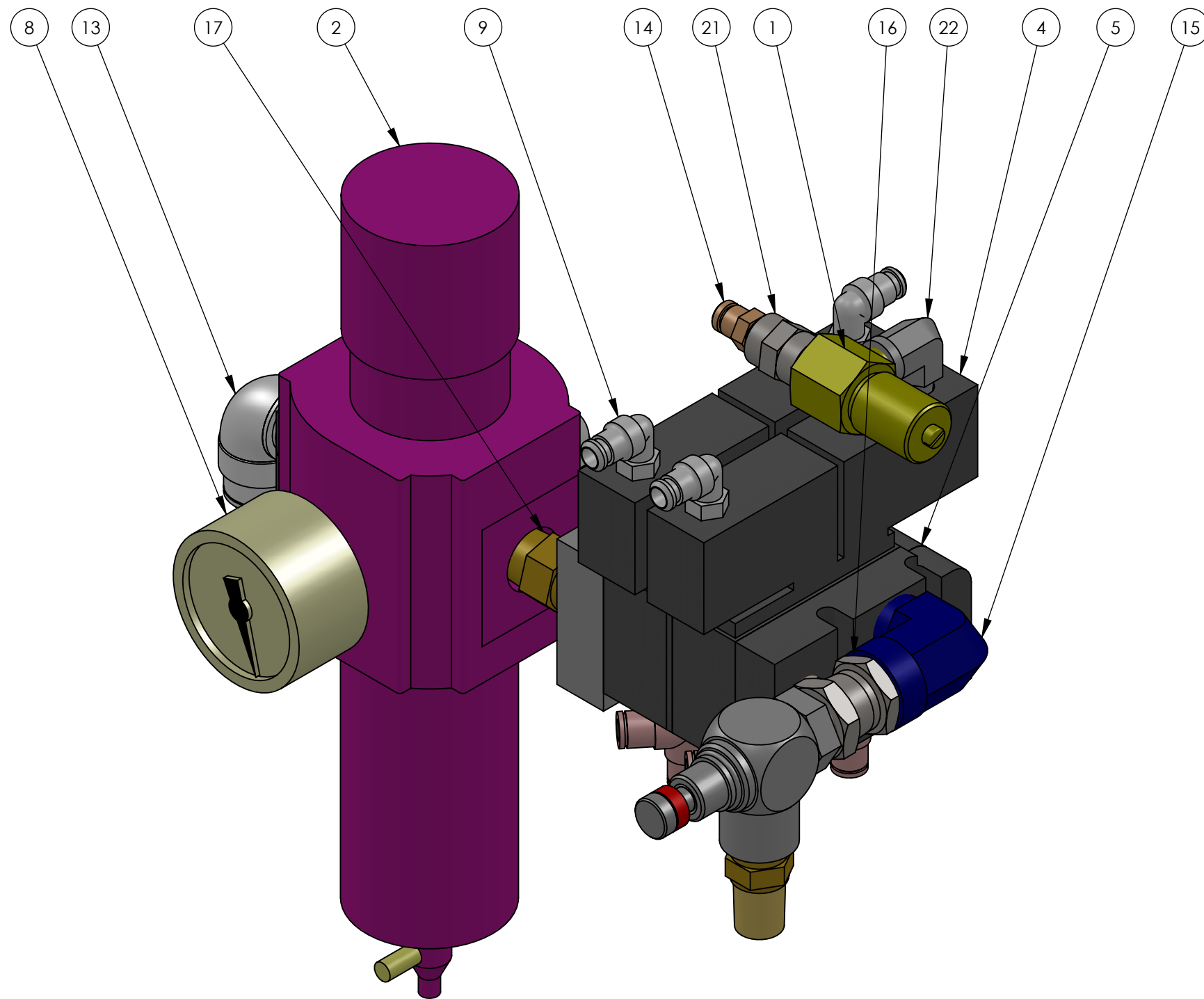
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**MECHANICAL PARTS LISTING**  
**SAFETY TRAY ASSY**

**09443900**

**NOTES:**

**A.** SEE SEPERATE PARTS LISTING



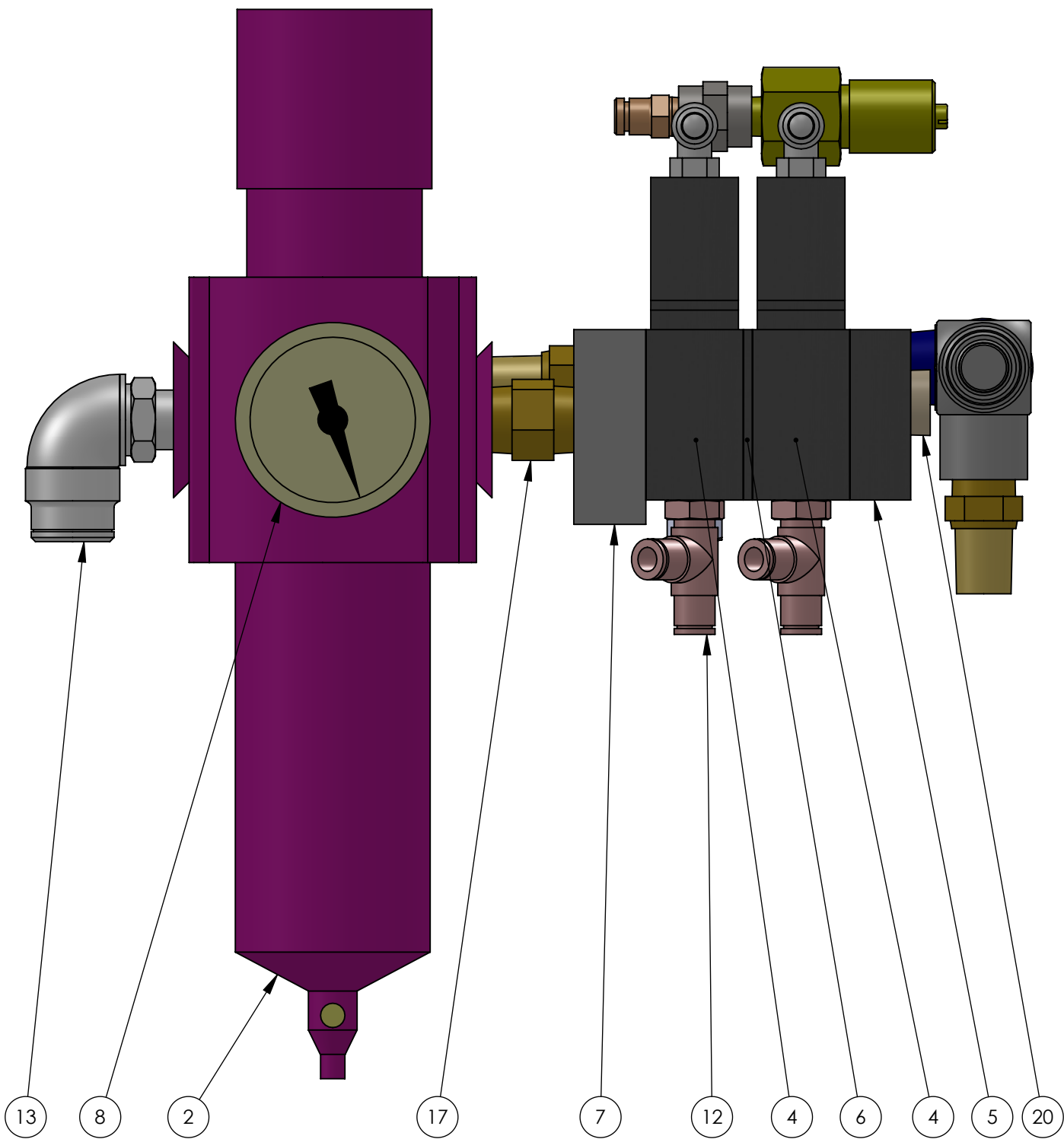
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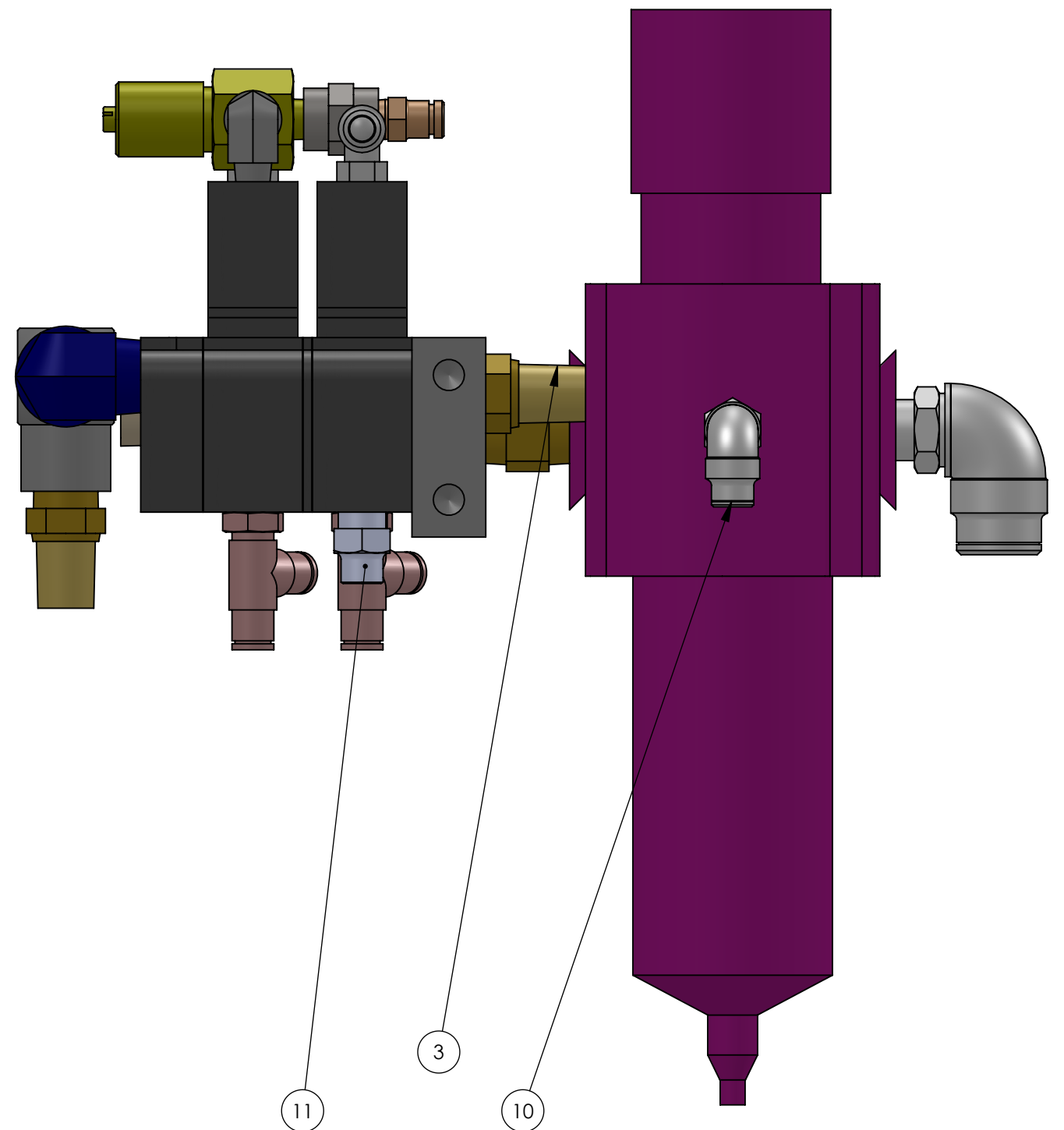
**MECHANICAL PARTS LISTING**

**ASSY - POWER VALVE, SINGLE SHOT**

**09443PV2**



**FRONT VIEW**



**BACK VIEW**



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**MECHANICAL PARTS LISTING**

**ASSY - POWER VALVE, SINGLE SHOT**

**09443PV2**

ITEM #	PART #	QTY	U/M	NOTES	DESCRIPTION
1	09155031	1	EA		VLV PULSE 3-WAY 1/8NPT
2	09155283	1	EA		REGULATOR
3	09155344	1	EA		MUFFLER SINTRD BRNZ 3/8NPT
4	09155873	2	EA		VLV 4-WAY DBL 1/8NPT RNT OPER
5	09155874	1	EA		END PLATE KIT
6	09155875	1	EA		ISOLATION KIT
7	09155876	1	EA		PLATE, SIGNAL PRESSURE
8	09155888	1	EA		GAUGE AIR 1/4NPT (O TO 160) *
9	09192007	3	EA		ELBOW MALE T-M-NPT 1/4x1/8
10	09192009	1	EA		ELBOW MALE T-M-NPT 1/4x1/4
11	09192010	1	EA		CONN HEXHD&SK T-M-NPT 1/4x1/4
12	09192064	3	EA		TEE M RUN NPT T-T-M 1/4x1/4
13	09192082	1	EA		ELBOW MALE T-M-NPT 1/2x3/8
14	09192086	1	EA		CONN HEXHD&SK T-M-NPT 1/4x1/8
15	09192493	1	EA		ELBOW STREET 90D 3/8"NPT S
16	09192543	1	EA		FTG SWIVEL 3/8"NPT
17	09192579	1	EA		CONN NIPPLE PIPE 3/8"NPT BRASS
18	09192595	1	EA	NS	TUBE AIR 1/4" BLUE*
19	09192598	1	EA	NS	TUBE AIR 1/4" CLEAR*
20	09192680	1	EA		PLUG PIPE HLLW HXHD 3/8NPT S
21	09192921	1	EA		CONN PIPE 1/8"NPT SS
22	09193051	1	EA		ELBOW, STREET 90D 1/8"NPT
23	09443614	1	EA	A	ASSY - CYL SPEED CONTROL, 3/8NPT



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**MECHANICAL PARTS LISTING**

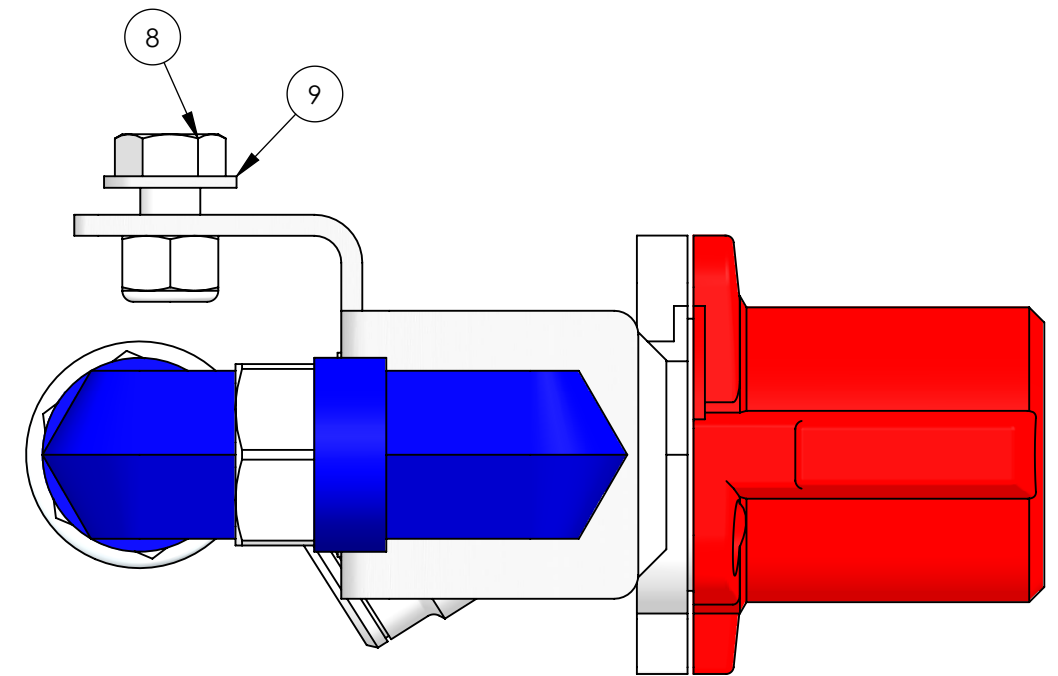
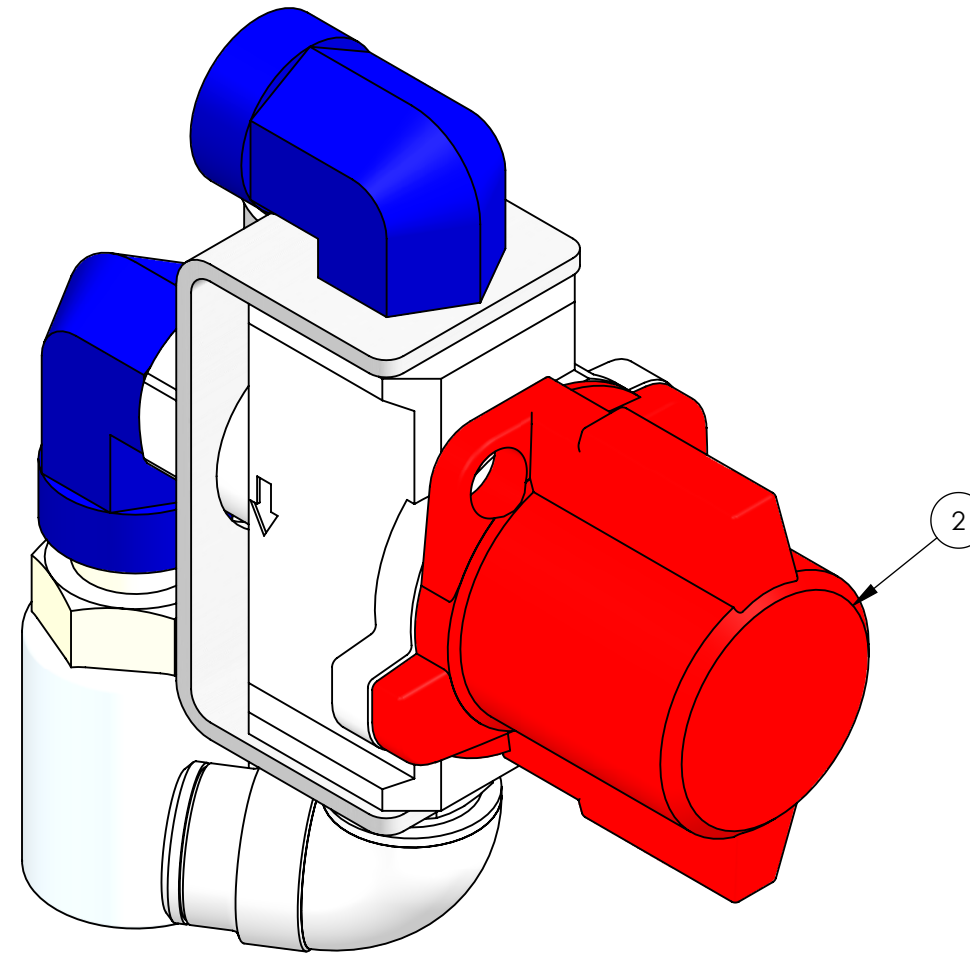
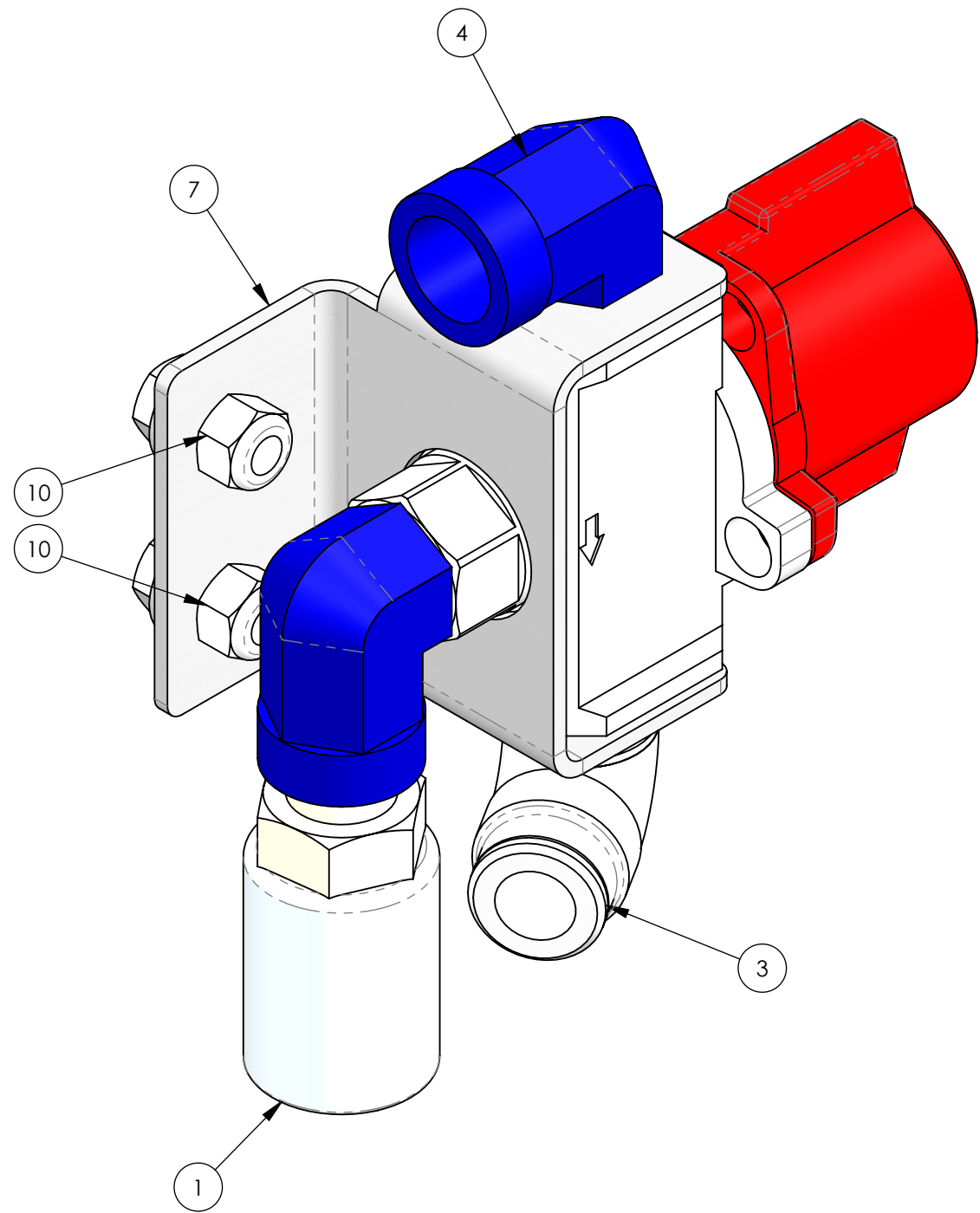
**ASSY - POWER VALVE, SINGLE SHOT**

**09443PV2**

**NOTES:**

**A.** SEE SEPARATE PARTS LISTING

**NS** NOT SHOWN



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**MECHANICAL PARTS LISTING**  
**NEW LOCKOUT KIT - US LOCATIONS**  
**09443578**

ITEM #	PART #	QTY.	U/M	NOTES	DESCRIPTION
1	09156572	1	EA		MUFFLER 3/8"NPT SHOCK RES.
2	09157696	1	EA		LOCKOUT VLV 3/8"NPT OSHA
3	09192082	2	EA		ELBOW MALE T-M-NPT 1/2x3/8
4	09192493	2	EA		ELBOW STREET 90D 3/8"NPT S
5	09192610	2.5	FT	NS	TUBE AIR 1/2" CLEAR*
6	09192611	2	EA	NS	NUT LOCK 3/8" CONDUIT STEEL
7	09443577	1	EA		LOCKOUT BRACKET
8	HB010-05C-05SS	2	EA		BOLT HXHD 5/16-18x5/8"L SS
9	HB040-05--00SS	2	EA		WASHER FLAT 5/16" SS
10	HB140-05C-00SS	2	EA		NUT SELF LOCK NY INS 5/16-18 SS



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**MECHANICAL PARTS LISTING**  
**NEW LOCKOUT KIT - US LOCATIONS**  
**09443578**

**NOTES:**  
**A.** SEE SEPERATE PARTS LISTING  
**NS** NOT SHOWN

**SHEET 2 OF 2**





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