

TankJet® 50 Tank Cleaner

USER GUIDE



Spraying Systems Co.
Experts in Spray Technology

MI-TJ50
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IMPORTANT: PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING OR OPERATING UNIT. SAVE FOR FUTURE REFERENCE.

PROPRIETARY NOTICE

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GENERAL SAFETY

READ AND FOLLOW INSTRUCTIONS:

- **WARNING:** All safety related and operating instructions should be read before the nozzle is operated. Follow all operating instructions. Failure to do so could result in serious injury.
- **WARNING:** It is important to recognize proper safety precautions when using a pressurized spray system. Fluids under pressure can penetrate skin and cause severe injury.
- **WARNING:** When dealing with pressure applications, the system pressure should never exceed the lowest rated component. Always know your system and all component capabilities, maximum pressures and flow rates.
- **WARNING:** Before performing any maintenance, make sure all liquid supply lines to the machine are shut off and/or disconnected and chemical/fluid are drained.
- **WARNING:** The use of any chemicals requires careful control of all worker hygiene.
- **WARNING:** Spraying Systems Co. does not manufacture or supply any of the chemical components used in this equipment and is not responsible for their effects. Because of the large number of chemicals that could be used and their different chemical reactions, the buyer and user of this equipment should determine compatibility of the materials used and any of the potential hazards involved.
- **WARNING:** Before use, be sure appropriate connections are secure and made to withstand weight and reaction forces of the operating unit.
- **WARNING:** Spraying Systems Co. strongly recommends the use of appropriate safety equipment when working with potentially hazardous chemicals.

This equipment includes but is not limited to:

- Protective hat
- Safety glasses or face shield
- Chemical-resistant gloves and apron
- Long sleeve shirt and long pants



NOTE: Always remember to carefully read the chemical manufacturer's label and follow all directions.



- **WARNING: DO NOT USE TO SPRAY FLAMMABLE LIQUIDS — SUCH USE COULD RESULT IN FIRE OR EXPLOSION CAUSING BODILY INJURY OR DEATH.**
- **WARNING:** Never operate tank cleaning equipment in the open due to the potential of bodily injury.
- **WARNING:** It is important to operate equipment within the temperature range of all components. Also ensure that appropriate time lapses or proper safety equipment is used when handling components after they're exposed to high temperatures.
- **WARNING:** Remove equipment from the tank before attempting any repairs.
- **WARNING:** Proper hoisting procedures should be used when installing and removing all equipment.
- **WARNING:** If walking on top of a tank is deemed safe and is necessary, use proper safety precautions to protect individuals as well as the equipment.
- **WARNING:** Do not put any part of your body in the tank during operation of the tank cleaner. This is NOT a safe procedure for verification of operation.
- **WARNING:** To ensure the safety of the equipment as well as the individuals using them, only use Spraying Systems Co. components.
- **WARNING:** When packaging and transporting, use structurally sound boxes or crates that can handle the weight of the equipment.
- **WARNING:** Tank cleaners should be flushed out with clean water before they're stored or shipped to minimize health hazards or cross contamination.
- **WARNING:** Do not use any equipment outside the intended purposes of the product. Misuse can result in personal injury or product damage.

The container being cleaned should be sealed as best as possible while the TankJet 50 models are running its cycle. The combination of temperature, cleaning solution, spray impact and the potential toxic materials being cleaned can cause a hazard to anyone in the path of the spray.

PRINCIPLES OF OPERATION

The TankJet® 50 is a hydraulically driven rotating nozzle hub that provides effective cleaning by producing efficient full cone patterns. A gear box is utilized to reduce the high input RPMs produced by pressure washers into a low RPM output to create a controlled rotation to optimize cleaning. The nozzles are driven by a set of bevel gears through a complete 360° path simultaneously in both the vertical and horizontal planes. The compact design of this unit allows for the insertion into standard wine barrels & 55-gallon drums along with many other small entry opening applications. It may also

be installed on a permanent basis (C.I.P.). Many types of fluids, sanitizers, detergents, and caustics may be used through this unit to assist in its cleaning effectiveness (Please note *Caution* below). The unit can be installed and mounted in any orientation such as vertical, horizontal, upside down, or at an angle.

Caution: If chemicals, hazardous materials, operations, and equipment are used in conjunction with this cleaning equipment, it is the responsibility of the user to establish appropriate associated safety and health practices. Prior to application, the user must consult and determine the applicability of regulatory (federal, state, local and facility) safety and environmental agency limitations.

TANKJET® 50 MODELS

Product No.	Description
TJ50_ - 53 - _ - _ - _	200-100psi DUAL .053" NOZZLE 3/8" NPT
TJ50_ - 60 - _ - _ - _	*75-1000psi DUAL .060" NOZZLE 3/8" NPT
TJ50_ - 66 - _ - _ - _	*75-1000psi DUAL .066" NOZZLE 3/8" NPT
TJ50_ - 76 - _ - _ - _	*75-1000psi DUAL .076" NOZZLE 3/8" NPT
TJ50_ - 84 - _ - _ - _	75-1000psi DUAL .084" NOZZLE 3/8" NPT
TJ50_ - 96 - _ - _ - _	75-500psi DUAL .096" NOZZLE 3/8" NPT

*Option for a different stator – dependent on pressure range

CONSTRUCTION

Referring to the Parts List, the unit comprises the drive assembly, consisting of a rotor, stator, gear box and shaft; and the nozzle head, consisting of the nozzle body, rotary housing, nozzles, and bushings. This construction utilizes the fluid to rotate and therefore doesn't require any other inputs for operation.

MATERIALS

The TankJet® 50 models are made from mainly 316 stainless steel, but also include carbon filled PTFE, UHMW, Viton O-rings, 440C stainless steel, PEEK, Delrin, and ceramic. 10mL of food grade lubrication is also added to the gearbox.



PRINCIPLE OF ROTATION

The liquid enters the inlet and then flows into the stator that causes the liquid to impact into the rotor. The impact onto the rotor causes rotation of the drive assembly which includes the gearbox for rotational speed reduction. The output of the gearbox will cause rotation of the drive stem and rotary housing. Using a 15 tooth and 16 tooth bevel gear, the rotary housing will cause the nozzle hub to spin as well. The meshing of these two bevel gears not only causes rotation but also creates the spray indexing after each revolution to provide the 360° coverage. Therefore, a total of 16 revolutions will be required to complete a complete cycle and get the full 360° coverage.

CLEANING DIAMETER

The cleaning distance is a function of rotational speed and liquid pressure applied. The slower the unit rotates and the higher the pressure applied, the greater the distance. With the use of the diffused solid steam nozzles the effective cleaning diameter is 5 ft (1.5 m), but the actual results will also depend on the type of nozzles used and condition of the soils to be removed.

INSTALLATION

The TankJet® 50 is very easy to install as it has a single 3/8" NPT or BSPT female pipe thread connection. It may be installed on a stand, hard piped, or suspended from a hose and can be mounted in any orientation. In all installations, a suitable strainer should be used (such as a 100 mesh Y strainer) to prevent dirt or scale from clogging the waterways or openings.

WARNING: In closed tanks, provisions should be made for adequate venting during operation to allow the escape of any gases or volatile vapors which may be produced during operation. This will also prevent the tank from collapsing due to vacuum formation, which can be caused by a cold rinse cycle in a warm tank.

OPERATION

To start the unit, turn on the fluid. An in-line valve is advised for a slow build-up of liquid pressure in the unit to prevent "water hammer". To stop the unit, turn off the liquid. The unit should always be handled with caution. Reducing any banging of the unit during insertion or removal will increase the longevity of the unit.

If the unit is dropped or maltreated it may cause internal damage to the drive assembly, which in turn can affect the performance of the unit. If handled properly the unit will perform well and provide dependable service.

OPERATION SPECIFICATIONS

Pipe Connection:	3/8" Female NPT or BSPT
Operating Pressure Range:	75 - 1000 PSI (5.2 - 69 BAR)
Max. Operating Temp:	200° F (93° C)
Flow Capacity:	1.9 – 10.3 GPM (7 - 39 LPM)
Cycle Time:	1.3 – 4.2 min. One full cycle completed every 16 revolutions
Max Cleaning Dia.:	Up to 10 ft maximum (3 m)
Nozzle Quantity	2
Installation Hole Dia.:	1.75" (44.5 mm)
Approximate Weight:	5.5 lbs (2.5 kgs)
Material of Construction:	316 Stainless Steel, carbon filled PTFE, UHMW, Viton®, 440C stainless steel, PEEK, Delrin, & ceramic
Recommended Strainer:	100 Mesh (<i>not included</i>)

SERVICING

REPLACEMENT PARTS:

When TankJet® 50 requires replacement parts, only Spraying Systems Co. recommended components should be used to maintain proper machine operation and safety.

DISASSEMBLY:

1. Remove inlet cap (1). Then, using needle nose pliers, remove stator (3).
2. Remove main body tube (13). (Suggestion: secure transition housing (21) in a bench vise to work on the unit.
3. Unthread nut #8-32 (4), [keep nut and lock washer (5) for later] and remove rotor (6).
4. Using a 5/64" hex key, remove 4 screws (7) and gaskets (8). Remove the top housing (10), bearing guide (9), and filter disc (11). Remove



any debris that might have collected on top of the gearbox.

5. Holding the flats on the fixed stem (16), unthread the gearbox (14).
6. With the transition housing (21) secure, unthread the fixed stem (16) using the flats.
7. Unthread the nozzle hub retainer (31) and remove the nozzle hub gear (26) / nozzles (29), nozzle hub guard (30), and nozzle hub bushings (28).
8. While holding the rotary housing (27) in place, insert a Philips screwdriver through the holes on the drive stem (17), unthread and remove.
9. Slide out the drive tube (22) and rotary housing (27), remove the drive tube bushing (25).
10. Then remove the thrust bushing (18), ball bearing (19), and seal (20) from the transition housing (21).
11. Unthread the bevel gear (24) from the fixed tube (23), if damaged and in need of repair.
12. Unthread the fixed tube (23) from the transition housing (21), if damaged and in need of repair.
13. Unthread drive tube (22) from rotary housing (27) if damaged and in need of repair.

ASSEMBLY:

1. Thread the fixed tube (23) into the transition housing (21) to 50lbf, IF TAKEN APART. Use food-grade, 'Blue' Loctite 2046 on the threads.
2. Thread the bevel gear (24) into the fixed tube (23) to 50lbf, IF TAKEN APART. Use food-grade, 'Blue' Loctite 2046 on the threads.
3. Thread the drive tube (22) onto the rotary housing (27) to 50lbf, IF TAKEN APART. Use food grade, 'Blue' Loctite 2046 on the threads. NOTE: Anchor or tighten using the center of the drive tube (22) to attach to the rotary housing (27). There are surfaces of the drive tube that are critical to performance.
4. Apply food-grade lubricant to the seal (20) and insert in the transition housing (21) with the open-end facing out.
5. Insert the thrust ball bearing assembly (19) into the transition housing, then install the thrust bearing bushing (18) into the ball bearing assembly (19).
6. Slide the tube bushing (25) into the bottom of the bevel gear (24) to secure it in place.
7. Holding the transition housing (21), slide the drive tube (22) & rotary housing (27) into the fixed tube (23) while turning it counterclockwise to help the threads of the drive tube (22) make it through the thrust bearing bushing (18) so the threads of the drive tube (22) are showing. NOTE: It may help to apply some pressure to the thrust bearing bushing (18) so that it doesn't pop out of the transition housing (21).
8. Thread on drive stem (17) using a #2 screwdriver or bar stock (9/32") in the cross holes of the drive stem (17) to tighten to 40lbf.
9. Insert fixed stem (16) into the transition housing using the provided flats.
10. Install gearbox pin (15) into the output shaft of the gearbox (14), and thread the gearbox into the fixed stem using the provided flats. NOTE: May need to spin rotary housing while installing gearbox so that the gearbox pin (15) and drive stem (17) align properly.
11. Install the bearing guide (9) inside of the top housing (10) & install the filter disc (11) on the bottom. Be sure to align filter disc (11) with the screw holes in top housing (10).
12. Install top housing (10) onto the gearbox, secure with 4 screws (7) and gasket washers (8).
13. Install rotor (6) on the gearbox (14) input shaft and secure with a lock washer (5) and nut (4). Torque to 30lbf and secure the rotor with a slender tool.
14. Thread nozzles (29) into nozzle hub (26) and torque to 20lbf.
15. Slide on nozzle hub bushing (28), nozzle hub guard (30), nozzle hub gear (26) and the second nozzle hub bushing (28) before threading on the nozzle hub retainer (31) and torque to 30lbf.
16. Install O-ring (2) onto the transition housing (21) and lubricate with food-grade lubricant.
17. Install O-ring (12) into the groove in the main body tube (13) and lubricate with food-grade lubricant.
18. Thread main body tube (13) onto the transition housing (21).
19. Install the stator (3) in the top housing (10), aligning with the nib in top housing (10).
20. Install O-ring (2) onto the inlet cap (1) and lubricate with food-grade lubricant.
21. Thread the inlet cap (1) onto the main body tube (13).



PARTS LIST

ITEM	DESCRIPTION	PART NO.	MATERIAL	QTY
1	INLET CAP, NPT	72126-316SS	STAINLESS STEEL, TYPE 316	1
2	O-RING	7717-2-125-VI	VITON	2
3	STATOR	72122-___-316SS	STAINLESS STEEL, TYPE 316	1
4	NUT - #8-32	55009-8-316SS	STAINLESS STEEL, TYPE 316	1
5	WASHER	55008-8-316SS	STAINLESS STEEL, TYPE 316	1
6	ROTOR	72121-10-316SS	STAINLESS STEEL, TYPE 316	1
7	LOW PROFILE SOCKET HEAD SCREW	55001-74-316SS	STAINLESS STEEL, TYPE 316	4
8	GASKET	118127-BU	BUNA-90A DUROMETER	4
9	BEARING GUIDE	118121-DELA	DELIN ACETAL, AF	1
10	TOP HOUSING	118131-316SS	STAINLESS STEEL, TYPE 316	1
11	GEAR BOX INLET FILTER DISK FINISH	118122-40-316L	STAINLESS STEEL, TYPE 316L	1
12	O-RING	7717-2-029-VI	VITON	1
13	MAIN BODY TUBE	118125-316SS	STAINLESS STEEL, TYPE 316	1
14	GEARBOX	118130	316SS, PEEK, CERAMIC	1
15	GEARBOX OUTPUT PIN	72134-316SS	STAINLESS STEEL, TYPE 316	1
16	FIXED STEM	118129-316SS	STAINLESS STEEL, TYPE 316	1
17	DRIVE STEM	118128-316SS	STAINLESS STEEL, TYPE 316	1
18	THRUST BEARING BUSHING	118143-PEKHPV	HPV PEEK	1
19	THRUST BALL BEARING ASSEMBLY	118119-SS	316SS, PEEK, CERAMIC	1
20	LIP SEAL	55006-4-GRTEF	PTFE, CARBON FILLED	1
21	TRANSITION HOUSING	118149-316SS	STAINLESS STEEL, TYPE 316	1
22A	DRIVE TUBE- STANDARD	72149-316SS	STAINLESS STEEL, TYPE 316	1
22B	DRIVE TUBE - SHORT	72151-3-316SS	STAINLESS STEEL, TYPE 316	1
23A	FIXED TUBE - SHORT	72151-316SS	STAINLESS STEEL, TYPE 316	1
23B	FIXED TUBE - SHORT	72149-3-316SS	STAINLESS STEEL, TYPE 316	1
24	BEVEL GEAR FINISH (16 TEETH)	118126-316SS	STAINLESS STEEL, TYPE 316	1
25	TUBE BUSHING	72161-UHMW	UHMW	1
26	BEVEL GEAR NOZZLE HUB FINISH (15 TEETH)	118124-316SS	STAINLESS STEEL, TYPE 316	1
27	ROTARY HOUSING	72150-316SS	STAINLESS STEEL, TYPE 316	1
28	NOZZLE HUB BUSHING	72156-CGRTEF	PTFE, CARBON FILLED	2
29	NOZZLE	45246-___-316SS	STAINLESS STEEL, TYPE 316	2
30	NOZZLE HUB GUARD	72153-UHMW	UHMW	1
31	NOZZLE HUB RETAINER	118132-316SS	STAINLESS STEEL, TYPE 316	1
32	SIDE INLET CAP	72126-RA-316SS	STAINLESS STEEL, TYPE 316	1

★ TRANSITION HOUSING WILL CHANGE IF FLANGE OPTION IS SELECTED. (SEE DS TJ50 & DS TJ50-DW FOR FLANGE INFORMATION).

★ IMPORTANT NOTE: AS GIVEN IN DATASHEET (DSTJ50), THE CORRECT COMBINATION OF NOZZLE/STATOR SIZE SHOULD BE USED TO OBTAIN THE OPTIMAL OPERATING PERFORMANCE.

DESCRIPTION:
PARTS LIST FOR TJ50 TANKJET
TANK CLEANING MACHINE

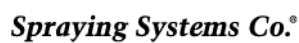
Spraying Systems Co.
Spray Nozzles and Accessories
P.O. Box 7900 - Wheaton, IL 60187-7901
Data Sheet No.
PL TJ50

REVISION NO. 3
REFERENCE:
SHEET: OF
DWG SIZE: B



OPERATION SPECIFICATIONS: INLET CONNECTION: 3/8 IN. NPT (F) OR BSPT (F) OPERATING PRESSURE RANGE: 75-1000 PSI (5.2 - 69 BAR) MAX. OPERATING TEMPERATURE: 200°F (93°C) FLOW CAPACITY: 1.9 - 10.3 GPM (7.4 - 39 LPM) CYCLE TIME: 1-1/4 - 4 MINUTES EFFECTIVE CLEANING DIA.: 10 ft. MAX. (1.5 m) NOZZLE QUANTITY: 2 MINIMUM INSTALLATION HOLE DIA.: 1.75 in. (44.5 mm) APPROXIMATE WEIGHT: 5.5 lbs. (2.5 kg.) TO 10.5 lbs. (4.6 kg.) MATERIAL OF CONSTRUCTION: 316 STAINLESS STEEL, CORTEC, VITON®, 440C STAINLESS STEEL, PEEK, CERAMIC. FLANGE OPTIONS: SANITARY TRI-CLAMP FLANGE - 3SF, 4SF, 6SF ASME 150# FLAT FACE FLANGE - 1.25FF, 1.5FF, 2FF NOZZLE TYPES: SOLID STREAM NOZZLE: CONCENTRATED HIGH IMPACT AREA FOR APPLICATIONS REQUIRING AGGRESSIVE CLEANING ACTION. DIFFUSED STREAM NOZZLE: PROTECTS A DIFFUSED IMPACT AREA THAT DELIVERS CLEANING ACTION TO REMOVE CONTAMINANTS WITHOUT DESTROYING SURFACE OF CONTAINER. STATOR TYPES: STANDARD VERSION WITH ASME 150# FLAT FACE FLANGE SHOWN, SHORT VERSION ALSO AVAILABLE.	TJ50 TankJet Capacity Size Stator 75 psi (5.2 bar) 125 psi (8.6 bar) 200 psi (13.8 bar) 300 psi (20.7 bar) 400 psi (27.5 bar) 500 psi (34.5 bar) 750 psi (51.7 bar) 1000 psi (69 bar)	Liquid Flow Capacity, GPM (LPM) & Cycle Time (min.) 053 4 2.3 (8.7) 2.9 (10.9) 3.3 (12.5) 3.7 (14) 4.4 (16.6) 5.1 (19.3) 060 2 1.9 (7.2) 2.4 (9.1) 3.0 (11.3) 3.6 (13.6) 4.1 (15.5) 4.7 (17.8) 5.2 (19.6) 060 6 2.1 (7.9) 2.7 (10.2) 3.3 (12.5) 3.9 (14.7) 4.5 (17.0) 5.0 (19.0) 5.6 (21) 066 3 2.9 (11.3) 3.6 (13.6) 4.3 (16.1) 5.0 (19.0) 5.7 (21.5) 6.4 (24) 7.1 (27) 066 7 3.2 (12.0) 3.9 (14.7) 4.6 (17.4) 5.3 (20.1) 6.0 (22.7) 6.7 (25.4) 7.4 (28) 076 4 2.7 (10.2) 3.4 (12.8) 4.1 (15.5) 4.8 (18.2) 5.5 (20.9) 6.2 (23.6) 6.9 (26.3) 076 7 3.2 (12.0) 3.9 (14.7) 4.6 (17.4) 5.3 (20.1) 6.0 (22.7) 6.7 (25.4) 7.4 (28) 084 7 3.3 (12.6) 4.0 (15.1) 4.7 (17.8) 5.4 (20.5) 6.1 (23.2) 6.8 (25.9) 7.5 (28.6) 096 7 3.6 (13.6) 4.3 (16.2) 5.0 (18.8) 5.7 (21.5) 6.4 (24.2) 7.1 (26.9) 7.8 (29.6)
ORDERING INFORMATION TJ50 B - 066 - 3 - D - RA - S - 4SF INLET CONN. TYPE - BLANK FOR NPT - "B" FOR BSPT CAPACITY SIZE (SEE TABLE) STATOR (SEE TABLE) SPRAY PATTERN - BLANK FOR SOLID STREAM - "D" FOR DIFFUSED NOZZLE INLET TYPE - BLANK FOR INLINE - "RA" FOR SIDE INLET FLANGE - BLANK FOR NO FLANGE - "NOT BLANK", SEE FLANGE OPTIONS INSERTION LENGTH - BLANK FOR STANDARD - "S" SHORT	IMPORTANT NOTE: THE CORRECT COMBINATION OF NOZZLE SIZE AND STATOR SIZE SHOULD BE USED TO OBTAIN THE OPERATING PERFORMANCE, AS GIVEN IN THE TABLE. OTHER COMBINATIONS OF NOZZLE SIZE AND STATOR SIZE GIVEN MAY NOT PROVIDE GOOD OPERATING PERFORMANCE.	DESCRIPTION: TJ50 TANKJET PRODUCT PERFORMANCE SPECIFICATIONS & FEATURES
REVISION NO. 3 DATE SHEET NO. TJ50 OF B	REVISION NO. 3 DATE SHEET NO. TJ50 OF B	REVISION NO. 3 DATE SHEET NO. TJ50 OF B

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TROUBLESHOOTING GUIDE

This section lists common problems that may be encountered during the operation of the TankJet® series. Proper operating environment and preventative maintenance can prevent many problems. A brief explanation of the problem and solution is followed by directions of where to look in the Operation & Maintenance Manual for further assistance or explanation.

PROBLEM	SOLUTION
TankJet 50 does not rotate	• Check if stator is installed and rotor does not slip on input shaft and can be spun with just your finger • Try to rotate the rotary housing to free any debris within the unit
TankJet 50 rotates very slow	• Check if all flow paths are free of debris (from inlet to nozzles) • Review product literature for correct operating range
Nozzle does not build pressure	• Check if pumping system is building adequate pressure • Check if all flow paths are free of debris (from inlet to nozzles) • Review product literature for correct operating range • Check for worn nozzles
TankJet 50 was dropped and now it doesn't rotate	• Look for signs of damage to the TankJet 50 (bent shafts, gears or tubes) • Disassemble TankJet 50 and narrow down which parts are damaged and replace as needed
Can I change the operating range of the TankJet 50?	• Yes, contact your local Spraying Systems Co. representative for resizing

WARRANTY

For newly purchased units the warranty is 18 months from the date of shipment or 12 months from the date of installation, whichever occurs first. This warranty includes manufacturing defects but does not cover the wear parts that include the bushings. This warranty will be void if parts other than those supplied by Spraying System Co. are used.

DECLARATION OF CONFORMITY

We,  **Spraying Systems Co.®**

North Avenue and Schmale Road, P.O. Box 7900

Wheaton, IL 60187-7901

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Intl. Tel: 1.630.665.5000

Fax: 1.888.95.SPRAY

Intl. Fax: 1.630.260.0842

Visit our Website at <http://www.spray.com> for local representatives

in accordance with the following directive(s):

2006/42/EC

The machinery directive

hereby declare that:

Equipment

Tank Cleaning Devices, Fluid Driven

Model number

TJ50

is in conformity with the applicable requirements of the following documents:

Ref. no.	Title	Edition/date
EN ISO 4413	Hydraulic fluid power – General rules and safety requirements for systems and their components	2010
EN12100	Safety of machinery – General principles for Design. Risk assessment and risk reduction	2010
BS EN ISO 14121-1	Safety of machinery – Risk assessment Part 1: Principles	2007
ASME- B31.1	ASME Code for Pressure Piping	2020

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

Signed by:



Evelyn Celio

Director of Engineering-Industrial Division

Spraying Systems Co.®



Spraying Systems Co.®
Experts in Spray Technology

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