

TankJet® 67 Tank Cleaner

USER GUIDE



Spraying Systems Co.®
Experts in Spray Technology

MI-TJ67
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GENERAL SAFETY INSTRUCTIONS

READ AND FOLLOWING 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:** Spraying Systems Co. strongly recommends the use of appropriate safety equipment when working with potentially hazardous chemicals.
 - **WARNING:** Before use be sure appropriate connections are secure and made to withstand weight and reaction forces of the operating unit.

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:** 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:** Never operate tank cleaning equipment in the open due to the potential of bodily injury.
 - **WARNING:** Removed equipment from the tank before attempting any repairs.
 - **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 the operation of the tank cleaner. This is NOT a safe procedure for verification of operation.
 - **WARNING:** Proper hoisting procedures should be used when installing and removing all equipment.
 - **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 67 models is 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® 67 is a hydraulically driven rotating head that provides effective control of rotational speed to assure optimum cleaning by the nozzle streams of internal tank surfaces to be cleaned, sanitized, treated, or rinsed. No reduction gears are used and therefore, minimal maintenance is required. The nozzles are driven by a set of bevel gears through a complete 360° path simultaneously in both the vertical and horizontal planes. This unit is complete with 4 nozzles which provide an indexing pattern of 2° per revolution. The “clean line” design of this unit ensures a minimum of outside crevices in the unit where processing material may accumulate to cause contamination. The unit may be installed on a permanent basis (C.I.P.). Many types of fluids, sanitizers, detergents, solvents and caustics may be used through this unit to assist with its cleaning effectiveness. (Please note caution below) The cleaning effectiveness of this unit is proportional to all the applicable variables, such as volume, pressure, chemicals, impingement, drainage, soils, etc. The unit will operate in any attitude so it can clean almost any type of contained area within its range.

TECHNICAL SPECIFICATIONS

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 67 MODEL:

Part No.	Description
TJ67 - 250	(4) 1/4" Nozzles, NPT Inlet Cap
TJ67 - 313	(4) 5/16" Nozzles, NPT Inlet Cap
TJ67 - 375	(4) 3/8" Nozzles, NPT Inlet Cap
TJ67B - 250	(4) 1/4" Nozzles, BSPT Inlet Cap
TJ67B - 313	(4) 5/16" Nozzles, BSPT Inlet Cap
TJ67B - 375	(4) 3/8" Nozzles, BSPT Inlet Cap
TJ67SF - 250	(4) 1/4" Nozzles, 2" Sanitary Flange Inlet
TJ67SF - 313	(4) 5/16" Nozzles, 2" Sanitary Flange Inlet
TJ67SF - 375	(4) 3/8" Nozzles, 2" Sanitary Flange Inlet

MATERIALS

- 316 Stainless Steel
 - 304 Stainless Steel (UNS S31600)
 - PEEK
- 18-8 Stainless Steel
 - Ceramic (ZrO2)
 - 302 Stainless Steel

CONSTRUCTION

Referring to the Parts List on page 8, the unit consists of two basic components; the drive assembly and the nozzle body assembly. This unit's construction does not require lubrication of any kind.

PRINCIPLE OF ROTATION

The liquid enters the inlet cap (1) and then flows through the oblique and bypass holes in the motor/stator (4) causing a swirling motion in the liquid. The swirling liquid goes down the outside of the vertical shaft (7) past the 6-tooth rotor (6) imparting rotation to the rotor and thus the vertical shaft. The liquid then goes through the holes in the vertical shaft and is divided in the shroud assembly (11) to each nozzle head shaft (12). There are two holes in the shroud assembly allowing a constant stream of liquid to be directed at the gear mesh to help prevent build-up. The liquid flows into the nozzle body and out each nozzle. The rotation of the vertical shaft causes the nozzle head assembly to rotate in a horizontal plane. The nozzle bodies rotate in the vertical plane by meshing the bevel gears (10 & 13); bevel gear (10) has 45 teeth while bevel gear (13) has 44 teeth. This difference in the number of teeth in each gear indexes the nozzles with each rotation. It will take 45 revolutions for one complete cleaning cycle. Thus, if the unit rotates at 5 RPM, it will take 9 minutes for a complete cleaning cycle. To obtain cycle time, divide 45 by the RPM of the head.

Normal rotation of the TankJet 67 is 8-50 RPM at 50 to 150 PSI (3 .4 to 10 .3 BAR) inlet pressure. The nozzle holes in the nozzle body (17) are set off true center in favor of rotation. All units will operate in the same RPM range since a change in nozzle size is compensated by a change in the bypass hole in the motor when the unit is assembled by the factory. The rotational speed of these units can be regulated through the hole in the motor bypass, which influences the fluid diversion to provide RPM changes, reference the trouble shooting section and the drawing parts list for additional information and location.

CLEANING DIAMETER

The cleaning diameter is a function of rotational speed and liquid pressure applied. The slower the head rotates and the higher the pressure applied, the greater the distances. The effective cleaning diameter is 40 ft. (12.2 m), but the actual results will also depend on the type and condition of soils to be removed.

INSTALLATION

The TankJet® 67 is easy to install as it has a single female pipe thread connection (NPT or BSPT) or 2” sanitary flange. It may be installed as a swing away unit or suspended from a pipe. The unit is dynamically balanced to avoid excessive sway and torque. The factory will pre-set the approximate speed (RPM) and nozzle size for the field application. In all installations a suitable strainer should be used (such as a 20 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 carefully. If the unit is dropped or maltreated it may cause external damage to the shroud assembly or 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 & SPECIFICATION:

Pipe Connection:	1-1/2" Female NPT/BSPT or 2" Sanitary Flange
Operating Pressure:	50 to 150 psi (3 .4 to 10 .3 bar)
Max. Operating Temp:	500° F (260° C) with NPT/BSPT inlet
Flow Capacity:	57-137 GPM
Head Rotation Speed:	8-50 RPM
Max. Tank Diameter:	To 40 ft maximum (9 .1 m)
Nozzle Quantity:	4
Nozzle Orifice Dia.:	1/4", 5/16" or 3/8" (Ø6 .4, 7 9 or 9 5 mm)
Overall Head Length x Body Diameter:	10.25" x 8.5" (260 mm x 216 mm)
Installation Hole Dia:	9.3" (Ø236.2 mm)
Approximate Weight:	15 lbs (6.8 kgs)
Material of Construction:	(see pg. 4 for list)

**Recommended Strainer - 20 Mesh (1/32" opening) (not included)

TROUBLE SHOOTING

Due to the simplicity of the unit, few problems should occur. If any trouble should arise, the following steps may be taken: Refer to the Parts List.

- A.Check units for external damage, look for evidence of mishandling that may have damaged shafts, bearings, or alignment.
- B.If the nozzle body fails to rotate and no liquid passes: 1. Check for liquid pressure and volume at the unit.

1. Check strainer for filter blockage.

2. Remove nozzles and check for obstructions.

3. While nozzles are off, recheck for flow through the nozzle body.
- C.If the unit fails to rotate and sufficient liquid passes:

1. Check for freedom of rotation, by hand, in the suspended and inverted position, in the vertical and rotational axis.

2. If no visible abnormalities are discovered, the ball bearings may be worn or there may be an obstruction caught in the bearings. Disassembly will be required if this is the case.

3. If the unit is free but does still not rotate under pressure, check for:

a. Contamination in the unit.

b. Bearing wear/contamination

c. Galling and straightness of the shafts and gears
- REPLACE ALL DEFECTIVE PARTS. NO LUBRICATION!
- SERVICING
- DISASSEMBLY
- NOTE: Be sure to securely hold the unit on the Body Cap Lower (8) using a soft jaw vice till STEP 8 of the Disassembly. Mishandling of the unit will NOT warrant replacement.**
1. Removal of Nozzles (18) from Nozzle Body (17)

a. Unscrew Nozzles (18) and check the condition of the internal bore as well as the nozzle vain.

2. Remove the Nylon Tip Set Screws (20) from the Shaft Tee Assembly (11).

a. Using a 3/32” Allen key, remove the Nylon Tip Set Screws (20) from inside the holes in the Shaft Tee Assembly (11)

3. Remove the Inlet Cap (1) from the Outer Body (5)

a. Be sure to securely hold the unit at the Body Cap Lower (8) or Shaft Tee Assembly (11) before loosening the Inlet Cap (1).

b. When removing the Inlet Cap (1), the Outer Body (5) may also break loose and stay attached to the Inlet Cap (1). To avoid this, securely hold the Outer Body (5) while loosening the Inlet Cap (1).

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- c. Remove the Stator (4) from the inside of the Outer Body (5).
4. Remove the Outer Body (5) from the Body Cap Lower (8).
5. Remove the Rotor (6).
 - a. Using a 9/64" Allen Key, remove the Socket Head Screws (19) from the Rotor (6), and remove the Rotor (6) from the Vertical Shaft (7).
6. Remove the Vertical Shaft (7).
 - a. Removal of the Vertical Shaft (7) includes the following: Vertical Shaft (7), Bevel Gear 45 Tooth (10), Body Cap Lower (8), and two Main Body Thrust Bearings (9).
 - b. If **STEP 2** is skipped, the **removal of the Vertical Shaft (9) will be difficult and can potentially cause damage to the Vertical Shaft (9) threads!!!!**
 - c. Using an adjustable crescent wrench on the flats of the Vertical Shaft (9), remove the Vertical Shaft (7) from the Shaft Tee Assembly (11).
7. Remove the Bevel Gear 45 Tooth (10) & Main Body Thrust Bearings (9).
 - a. **NOTE:** A Spanner Wrench of 1/8" pin diameters should be used to remove gears. The disassembly of the gears is not necessary unless you are REPLACING said gears.
 - b. To remove the Main Body Thrust Bearings (9), secure the Body Cap Lower (8) on its flats with the Bevel Gear 45 Tooth (10) facing upwards, then using the recommended Spanner wrench, remove the gear.
 - c. Once the gear is removed, the Main Body Thrust Bearings (9) can be removed for inspection or replacement.
8. Remove the Nozzle Body's (17).
 - a. Use a soft jaw vice to secure the Shaft Tee Assembly (11) and only hold the unit on the face where the holes are located. Any other placement of the vice jaws will cause damage to the Shroud assembly and may affect the performance of the overall unit.
 - b. **BEFORE REMOVING THE NOZZLE BODY (17)!** Take the 3/32" Allen Key and remove the two Nylon Tip Set Screws (20) holding the Nozzle Head Shafts (12) in place. These can be found on the top side of the Shaft Tee Assembly (11) about 20 degrees off center from the Nozzle Body (17) center axis.
 - c. Using a piece of 3/8" square stock, insert through the Nozzle Body (17) to catch the end of the Nozzle Head Shaft (12) and unscrew the Nozzle Body (17) from the Shaft Tee Assembly (11). The Nozzle Body (17) will include the following: Nozzle Body (17), Nozzle Body Thrust Bearing (14), Nozzle Head Shaft (12), and Nozzle Body Radial Bearing (15).
 - d. Once one Nozzle Body (17) is removed, remove the remaining Nozzle Body (17) from the other side.
9. Remove the Bevel Gear 44 Tooth (13), Nozzle Body Thrust Bearing (14), Nozzle Head Shaft (12), and Nozzle Body

Radial Bearing (15).

- a. With the Nozzle Body (16) removed from the Shaft Tee Assembly (11), secure the Nozzle Body (17) in a soft jaw vice on its flats with the gear facing towards you, and remove the Bevel Gear 44 Tooth (13) using the required spanner wrench.
 - b. With the Bevel Gear 44 Tooth (13) removed, remove the Nozzle Body Thrust Bearing (14), Nozzle Head Shaft (12), and Nozzle Body Radial Bearing (15) for inspection or replacement.
10. With the unit completely disassembled, inspect all components, including those not listed as wear components to determine whether replacement is necessary.

ASSEMBLY

NOTE: Anti-seize should be used on all threads during assembly with the exception of the Socket Head Screws (6) and Nylon Tip Set Screws (19). Torque Requirements for the assembly can be found on "PL TJ67" (pg. 8).

1. Nozzle Body (16) Assembly. [X2]
 - a. Secure the Nozzle Body (17) on its flats in a soft jaw vice with the threads facing up and drop-in the Nozzle Body Radial Bearing (15). This bearing should slip into the pocket inside the Nozzle Body (17).
 - b. With the Nozzle Body Radial Bearing (15) is secured, insert the "notched" end of the Nozzle Head Shaft (12) into the Nozzle Body Radial Bearing (15). With the Nozzle Head Shaft (12) threads sticking up, insert the Nozzle Body Thrust Bearing (14) onto the Nozzle Head Shaft (12).
 - c. Using the required spanner wrench, attach the Bevel Gear 44 Tooth (13) onto the Nozzle Body (17). **NOTE:** The gear should smoothly thread all the way to the face with no resistance. If there is resistance, check the male/female threads, and/or check for burrs on any of the internal parts.
2. Assemble the Nozzle Body (17) to the Shaft Tee Assembly (11) [X2]
 - a. With the Shaft Tee Assembly (11) properly secured in a soft jaw vice (see STEP 8a in Disassembly), assemble the Nozzle Body(s) (17) to the Shaft Tee Assembly (11) using the 3/8" square stock on the notch of Nozzle Head Shaft (12) to properly thread the sub assembly to the Shaft Tee Assembly (11)).
 - b. Once the Nozzle Body(s) (17) are properly threaded to the Shaft Tee Assembly (11), secure them using two Nylon Tip Set Screws (20) through the top of the Shaft Tee Assembly (11) using a 3/32" Allen key.
3. Body Cap Lower (8) Assembly.
 - a. Secure the Body Cap Lower (8) in a soft jaw vice with the internal threads facing up and drop in one Main Body Thrust Bearing (9).

- b. Then drop in the Vertical Shaft (7) with the threads of the shaft facing upwards.
 - c. Then insert another Main Body Thrust Bearing (9) over the Vertical Shaft (7).
 - d. Using the required spanner wrench, secure the Bevel Gear 45 Tooth (10) to the Body Cap Lower (8). **NOTE:** There should be little to no resistance when securing the Bevel Gear (10).
4. Assemble the Body Cap Lower (8) to the Shaft Tee Assembly (11).
 - a. **IMPORTANT!** When assembling the Body Cap Lower (8) to the Shaft Tee Assembly (11), the Nozzle Bodies (17) **MUST** be cocked perpendicular to each other.
 - b. With the Shaft Tee Assembly (11) properly secure in the soft jaw vice, thread the Vertical Shaft (7) to the Shaft Tee Assembly (11).
 - c. This should be done slowly and by hand to ensure that the Nozzle Bodies (17) that are set perpendicularly to each other stay in the proper orientation till the Vertical Shaft (7) is fully threaded.
 - d. Once it's fully threaded, secure the Vertical Shaft (7) with a crescent wrench to ensure its engagement.
 - e. Then, insert two Nylon Tip Set Screws (20) through the holes on the Shaft Tee Assembly (11) to secure the Vertical Shaft (7) to the Shaft Tee Assembly (11).
5. Attach the Rotor (6).
 - a. Slip the Rotor (6) over the flats on the Vertical Shaft (7) till the holes on the Vertical Shaft (7) line up with the holes on the Rotor (6).
 - b. Then, using a 9/64" Allen key securely attach the Rotor (6) to the Vertical Shaft (7) using two Socket Head Screws (19).
6. Attach the Outer Body (5) to the Body Cap Lower (8).
7. Insert the Stator (4) through the top of the Outer Body (5) and ensure that it is sitting completely flat but rotating it. If it spins freely, then the Stator/Motor (4) is sitting flat.
8. Attach the Inlet Cap (1).
 - a. If the Inlet Cap (1) has internal threads, then the Strainer (2) & Retaining Ring (3) should already be attached to the Inlet Cap (1).
9. Attach the Nozzles (18).
 - a. Check for any debris, burrs, and vain inside the nozzle before installation.

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 gears and ball bearing sets (thrust/radial). This warranty will be void if parts other than those supplied by Spraying System Co. are used.

ITEM	DESCRIPTION	PART NO.	QTY	REPL.
1	INLET CAP	SEE TABLE	1	
2	STRAINER	664	1	
3	RETAINING RING	645-3	1	
4	STATOR	SEE TABLE	1	
5	OUTER BODY	118811-67-316SS	1	
6	ROTOR	118357-316SS	1	
7	VERTICAL SHAFT	118378-316SS	1	
8	BODY CAP LOWER	118358-316SS	1	
9	MAIN BODY THRUST BEARING	118375-SS	2	★
10	BEVEL GEAR (45 TEETH)	118359-316SS	1	
11	SHAFT TEE ASSEMBLY	118360-316SS	1	
12	NOZZLE HEAD SHAFT	118363-316SS	2	
13	BEVEL GEAR (44 TEETH)	118364-316SS	2	
14	NOZZLE BODY THRUST BEARING	118375-SS	2	★
15	NOZZLE BODY RADIAL BEARING	118377-SS	2	★
16	FLOW SPLITTER	16-314SSA	2	
17	NOZZLE BODY	118355-316SS	2	
18	NOZZLE ASSEMBLY	SEE TABLE	4	
19	SCREW #8-32 X 5/16" LG.	55001-104-SS	2	
20	NYLON TIP SCREW #10-32 X 1/4" LG. (NOT SHOWN)	74-324	4	

INLET CAP	
PART NO.	DESCRIPTION
118370-316SS	NPT INLET CAP
B118370-316SS	BSPT INLET CAP
118370-SF-316SS	2" SANITARY FLANGE CAP

STATOR	
PART NO.	DESCRIPTION
118356-250-316SS	STATOR W/.375" BYPASS
118356-313-316SS	STATOR W/.500" BYPASS
118356-375-316SS	STATOR W/.750" BYPASS

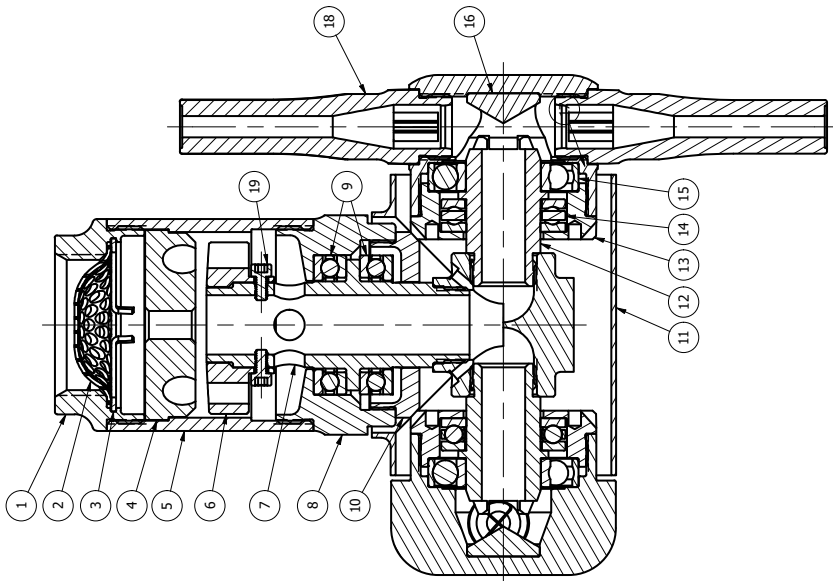
NOZZLE ASSEMBLY	
PART NO.	DESCRIPTION
118899-250-316SS	.250" ORIFICE NOZZLE ASSEMBLY
118899-313-316SS	.313" ORIFICE NOZZLE ASSEMBLY
118899-375-316SS	.375" ORIFICE NOZZLE ASSEMBLY

TORQUE SPECIFICATIONS	
ITEM	TORQUE
1	80 FT-LBS
10	100 FT-LBS
13	100 FT-LBS
18	80 FT-LBS
20	20 IN-LBS

★ ABCKTJ67 SPARE PARTS KIT			
ITEM	DESCRIPTION	PART NO.	MATERIAL
9	MAIN BODY THRUST BEARING	118376-SS	316SS, PEEK, CERAMIC
14	NOZZLE BODY THRUST BEARING	118375-SS	316SS, PEEK, CERAMIC
15	NOZZLE BODY RADIAL BEARING	118377-SS	316SS, PEEK, CERAMIC

PART NO.		18	
ASSEMBLY NO.	INLET CAP	STATOR	NOZZLE ASSEMBLY
TJ67-250	118370-316SS	118356-250-316SS	118899-250-316SS
TJ67-313	118370-316SS	118356-313-316SS	118899-313-316SS
TJ67-375	118370-316SS	118356-375-316SS	118899-375-316SS
TJ67B-250	B118370-316SS	118356-250-316SS	118899-250-316SS
TJ67B-313	B118370-316SS	118356-313-316SS	118899-313-316SS
TJ67B-375	B118370-316SS	118356-375-316SS	118899-375-316SS
TJ67SF-250	118370-SF-316SS	118356-250-316SS	118899-250-316SS
TJ67SF-313	118370-SF-316SS	118356-313-316SS	118899-313-316SS
TJ67SF-375	118370-SF-316SS	118356-375-316SS	118899-375-316SS

DESCRIPTION:	
PARTS LIST FOR TJ67 TANKJET TANK CLEANING MACHINE	
REVISION NO.	PL TJ67
REFERENCE:	PARTS LIST NO.
SHEET	OF
DWG SIZE:	B



DATA SHEET

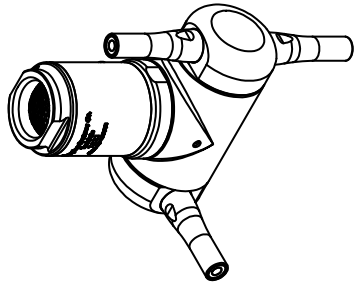
TJ67 PERFORMANCE DATA											
MODEL NO.	CAPACITY GPM (LPM)										
	50 PSI (3.4 BAR)	70 PSI (4.8 BAR)	90 PSI (6.2 BAR)	100 PSI (6.9 BAR)	110 PSI (7.2 BAR)	130 PSI (9.0 BAR)	150 PSI (10.3 BAR)				
TJ67-250	57 (216)	68 (257)	76 (288)	80 (303)	84 (318)	90 (341)	98 (371)				
TJ67-313	68 (257)	79 (299)	89 (337)	94 (356)	98 (371)	106 (401)	114 (431)				
TJ67-375	81 (307)	95 (360)	107 (405)	112 (424)	118 (447)	128 (485)	137 (519)				

ORDERING INFORMATION

TJ67 B - 313

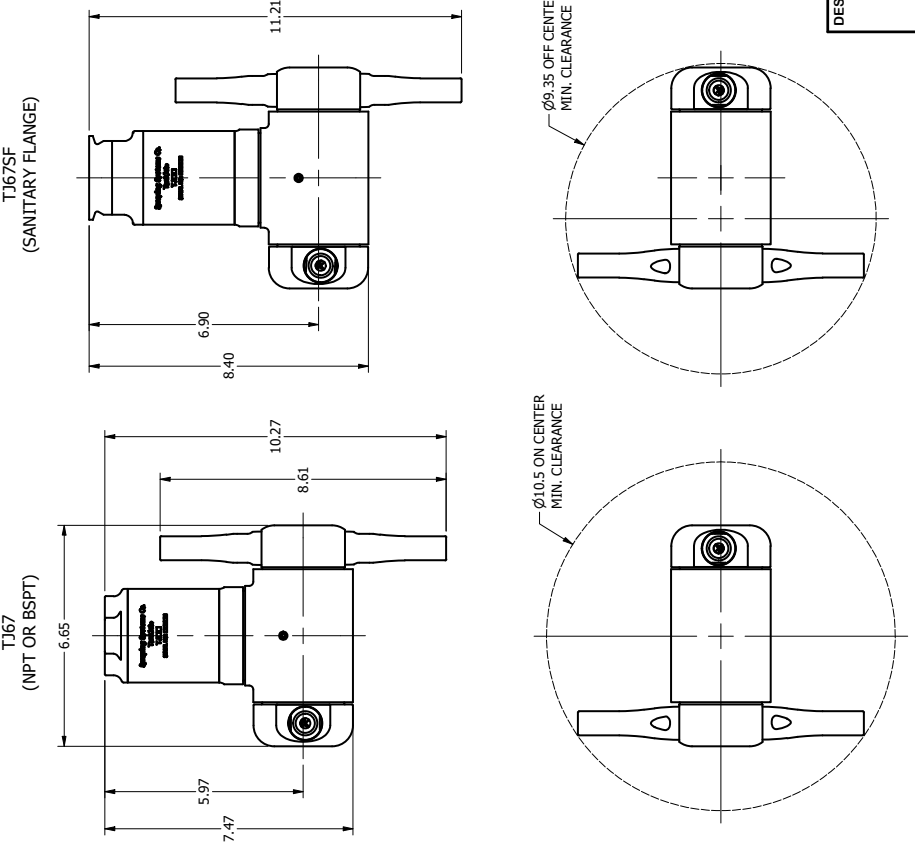
INLET CONNECTION
BLANK FOR NPT
"B" FOR BSPT
"SF" FOR SANITARY FLANGE

CAPACITY SIZE
(SEE TABLE)



TJ67 (NPT OR BSPT)	
ITEM	DESCRIPTION
9	MAIN BODY THRUST BEARING
14	NOZZLE BODY THRUST BEARING
15	NOZZLE BODY RADIAL BEARING

TJ67SF (SANITARY FLANGE)	
ITEM	DESCRIPTION
9	MAIN BODY THRUST BEARING
14	NOZZLE BODY THRUST BEARING
15	NOZZLE BODY RADIAL BEARING



DESCRIPTION:	
TJ67 TANKJET PRODUCT PERFORMANCE SPECIFICATIONS & CENTER CLEARANCES	
REVISION NO.	PL TJ67
REFERENCE:	DATA SHEET NO.
SHEET	OF
DWG SIZE:	B

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EC DECLARATION OF INCORPORATION

We, **Spraying Systems Co.®**
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in accordance with the following directive(s):

2006/42/EC The machinery directive

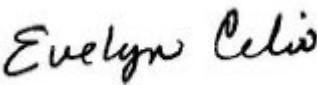
hereby declare that:

Equipment TankJet® Tank Cleaning Devices, Fluid Driven
Model number TankJet®67

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

<u>Ref. no.</u>	<u>Title</u>	<u>Edition/ Date</u>
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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