

FOR TANK DIA. UP TO **10ft.**
(3 m)

SMALL PROCESSING TANKS • TOTES
BEVERAGE TANKS • MIXING TANKS
PIPES AND DUCTS • PULP CHESTS
DRUMS AND KEGS • CHEMICAL
TANK CYLINDERS



TANK DIA. UP TO 10 FT. (3 M)
INTRODUCTION



PRODUCE EFFECTIVE SPRAY THROUGH A VARIETY OF MATERIALS AND SPRAY COVERAGES




RELIABLE, COMPACT DESIGNS PROVIDE COMPREHENSIVE CLEANING AND RINSING

Built for longevity, these compact nozzles are designed to thoroughly clean and rinse a wide variety of vessels. Their versatility and easy maintenance make them ideal for installation with multiple nozzles.





QUICK REFERENCE GUIDE

Nozzle	Cleaning Power	Max. Tank Diameter ft. (m)	Operating Principle	Flow Rate Range gpm (lpm)	Operating Pressure psi (bar)	Spray Coverage	Max. Temperature °F (°C)	Materials	Page Number
TankJet 27500 & 27500-R 	Medium impact	10 (3.0)	Fluid-driven reactionary force	4.0 to 8.9 (15.3 to 34)	10 to 50 (0.7 to 3.5)	180° up/down, 270° up/down, 360°	200 (93)	PTFE fluoropolymer resin	E4
TankJet 6353 & 6353-MFP	Rinsing	10 (3)	Stationary	8.9 to 80 (35 to 301)	20 to 50 (1.4 to 3.5)	360°	212 (100)	Brass, 303 or 316 stainless steel	E6
TankJet 18250A	Rinsing	8 (2.4)	Fluid-driven reactionary force	10.5 to 55 (48 to 205)	10 to 60 (0.7 to 4.1)	360°	350 (177)	Bearing retainers – Kolsterised stainless steel Sleeves – 50% stainless steel PTFE All other metallurgy – 316 stainless steel with Ryton® (polyphenylene sulfide)	E8
TankJet D41990A & D41990E 	Rinsing	6.5 (2.0)	Fluid-driven reactionary force	2.4 to 10.6 (9.0 to 40)	15.0 to 60 (1.0 to 4.0)	180° up/down, 360°	265 (130)	316L stainless steel	E10
TankJet D41892 	Rinsing	6.5 (2)	Fluid-driven reactionary force	4.0 to 7.5 (15.9 to 29)	20 to 70 (1.4 to 4.8)	360°	160 (70)	POM or PVDF	E12
TankJet 9-A	Rinsing	6 (1.8)	Fluid-driven reactionary force	1.3 to 5.0 (4.9 to 18.9)	10 to 120 (0.7 to 8.3)	2 x 175	190 (88)	Bearings – Carbon-filled PTFE fluoropolymer All other metallurgy – 316 stainless steel	E14



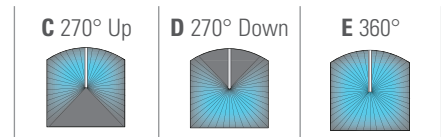
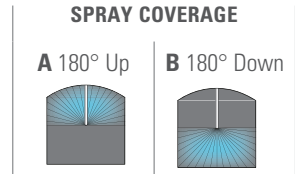


TANKJET 27500 AND 27500-R TANK CLEANING NOZZLE FEATURES AND BENEFITS

- With rotation driven by the reactionary force of the cleaning liquid, these rotating nozzles provide excellent cleaning and rinsing and are especially well-suited to clean-in-place (CIP) systems
- Spray angles range from 180° to 360° and can be used to clean specific areas or the entire tank interior
- Made of corrosion- and chemical-resistant PTFE fluoropolymer resin, both models provide peak performance when used with debris-free liquid and deliver greater impact than static spray balls
- The rotating spray heads on 27500-R nozzles can be easily removed from the body for inspection and maintenance
- 27500-R nozzles with removeable spray heads, 1/2 in. and 3/4 in. inlet connections, are also available in carbon-filled PTFE for improved thermal characteristics and higher mechanical strength.
- ATEX-certified versions available



TankJet 27500 tank cleaning nozzle



MOUNTING OPTIONS

Vertical	↑	↓
Horizontal	←	→
45° Up	↖	↗
45° Down	↘	↙

TankJet 27500-R tank cleaning nozzle



SPECIFICATIONS

TankJet 27500 and 27500-R Tank Cleaning Nozzles	
Max. tank diameter:	10 ft. (3.0 m)
Operating principle:	Fluid-driven reactionary force
Flow rate:	2.6 to 8.9 gpm (9.8 to 34 lpm)
Operating pressure:	10 to 50 psi (0.7 to 3.4 bar)
Max. temperature:	200°F (93°C)
Materials:	PTFE fluoropolymer resin or CTEF
Inlet connection:	3/8" or 1/2" NPT or BSPT (F)
Optional accessories:	Strainers, recommended mesh size: 100 (150 micron) See page G2

DIMENSIONS AND WEIGHT

Model	Inlet Conn. in.	D in. (mm)	L in. (mm)	F (Flats) in. (mm)
27500-R	3/8	1.69 (43)	2.0 (51)	0.94 (23.8)
27500, 27500-R	1/2	1.94 (49.2)	2.38 (60.3)	1.13 (28.6)

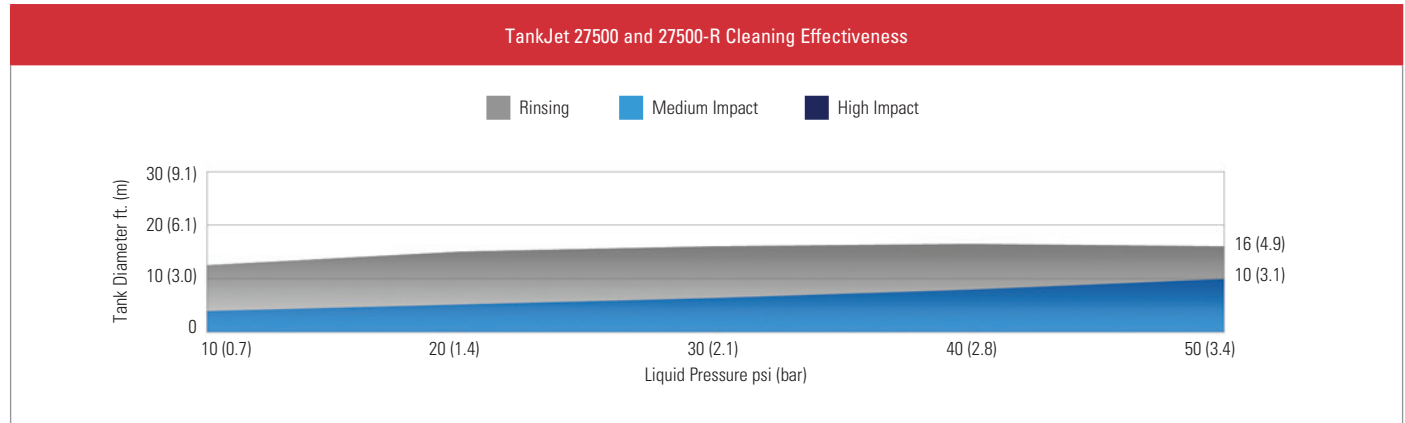
Additional sizes available:
Page C16 – 3 in. conn.
Page D4 – 3/4, 1 and 2 in. conn.

IDEAL FOR CLEANING:

- Broke chests
- Chemical tanks
- PCB washers
- Pharmaceutical tanks
- Process tanks



PERFORMANCE DATA



Model		Inlet Conn. Size in.	Capacity Size	Orifice Dia. in. (mm)	Liquid Flow Capacity gpm (lpm)*					Max. Tank Dia. ft. (m)
27500	27500-R				10 psi (0.7 bar)	20 psi (1.4 bar)	30 psi (2.1 bar)	40 psi (2.8 bar)	50 psi (3.4 bar)	
	•	3/8	5	0.052 (1.3)	2.6 (9.8)	3.8 (14.4)	4.7 (17.8)	5.4 (20.4)	6.3 (23.8)	10 (3.0)
	•		7	3/32 (2.4)	3.7 (14.0)	5.3 (20)	6.2 (23.5)	7.4 (28)	8.2 (31)	10 (3.0)
•	•*	1/2	8	3/32 (2.4)	4.0 (15.3)	5.7 (22)	6.9 (26)	8.0 (30)	8.9 (34)	10 (3.0)

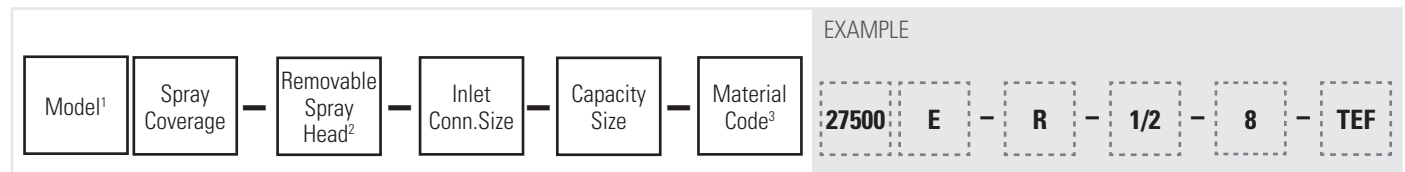
*Suggested optimum operating range: 20 to 40 psi (1.5 to 2.8 bar).

ADDITIONAL SIZES AVAILABLE

Page C16 – 3 in. conn.
Page D4 – 3/4, 1 and 2 in. conn.

ORDERING INFORMATION

TANKJET 27500 AND 27500-R TANK CLEANING NOZZLES



¹Add B prior to the model for BSPT connections.

²Leave blank for standard version.

³Indicate CTEF for carbon-filled PTFE on 1/2 in. inlet connections for 27500-R.

For lances, mounting kits, adapters and more,
see page G6



**TANKJET 6353 & 6353-MFP TANK CLEANING NOZZLE
FEATURES AND BENEFITS**

- TankJet 6353-MFP provides increased cleaning action by using 3/8" Maximum Free Passage (MFP) FullJet® nozzles; MFP design helps reduce clogging
- Simple and reliable with no moving parts
- Individual nozzles can be replaced with plugs to provide specific cleaning coverages
- Nozzles are easily removed for cleaning and inspection
- Can be installed in any position
- Special designs available for a wide range of coverages
- Special materials available on request



TankJet 6353-MFP tank cleaning nozzle

TankJet 6353 tank cleaning nozzle



SPRAY COVERAGE

360°



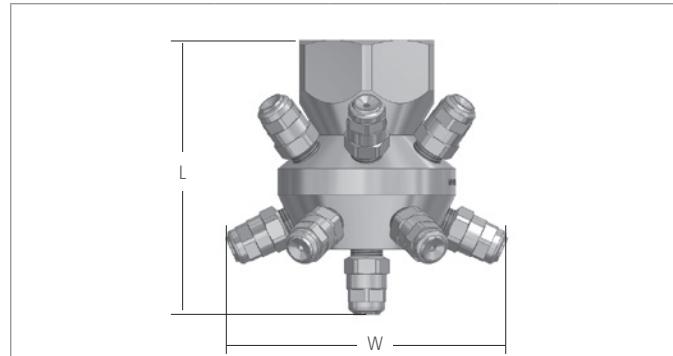
MOUNTING OPTIONS

Vertical	↑	↓
Horizontal	←	→
45° Up	↖	↗
45° Down	↙	↘

SPECIFICATIONS

TankJet 6353 Tank Cleaning Nozzles	Standard version	MFP version
Max. tank diameter:	10 ft. (3 m)	10 ft. (3 m)
Operating principle:	Stationary	Stationary
Flow rate:	8.9 to 60 gpm (35 to 230 lpm)	25 to 80 gpm (93 to 301 lpm)
Operating pressure:	20 to 50 psi (1.4 to 3.4 bar)	20 to 50 psi (1.4 to 3.4 bar)
Max. temperature:	212°F (100°C)	212°F (100°C)
Materials:	Brass, 303, or 316 stainless steel	Brass, 303 or 316 stainless steel
Inlet connection:	1-1/2" NPT or BSPT (F)	1-1/2" NPT or BSPT (F)
Optional accessories:	Strainers, recommended mesh size: 16 to 100 (1190 to 150 micron). See page G2	

DIMENSIONS AND WEIGHTS

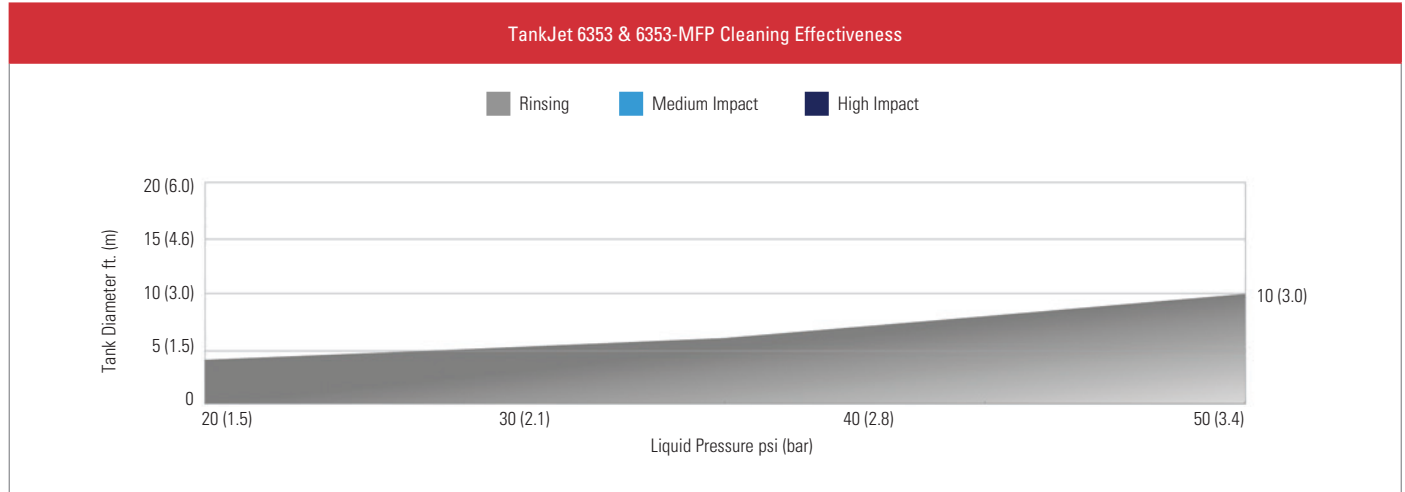


Nozzle	L in. (mm)	W in. (mm)	Min. Tank Opening in. (mm)	Weight lbs. (kg)
6353-1/4GG-5	4-1/2 (114)	4-1/2 (114)	6 (152)	3.7 (1.6)
6353-1/4GG-10				
6353-3/8GG-22	4-1/2 (114)	5 (127)	6 (152)	4.5 (2.0)
6353-3/8HHMFP-6014	4-1/2 (114)	4-1/2 (114)	6 (152)	3.7 (1.6)
6353-3/8HHMFP-6022				
6353-3/8HHMFP-6032				

IDEAL FOR CLEANING:

- Chemical processing tanks
- Process tanks
- Pulp chests

PERFORMANCE DATA



Model	FullJet® Nozzle	Capacity Size	Max. Free Passage in. (mm)	Liquid Flow Capacity gpm (lpm)			
				20 psi (1.5 bar)	30 psi (2.1 bar)	40 psi (2.8 bar)	50 psi (3.4 bar)
6353	1/4GG	5	0.050 (1.3)	8.9 (35)	10.8 (40)	12.3 (48)	13.6 (52)
	1/4GG	10	0.063 (1.6)	17.9 (70)	22 (80)	25 (97)	27 (104)
	3/8GG	22	0.109 (2.8)	39 (155)	48 (177)	55 (215)	60 (230)
	3/8HHMFP	6014	0.125 (3.2)	25 (93)	29 (108)	31 (118)	33 (123)
	3/8HHMFP	6022	0.156 (4.0)	38 (143)	44 (167)	49 (187)	54 (204)
	3/8HHMFP	6032	0.188 (4.8)	55 (206)	65 (246)	73 (276)	80 (301)

ORDERING INFORMATION

6353 TANK CLEANING NOZZLE

Model*

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Nozzle

—

Material Code**

—

Capacity Size

EXAMPLE

6353 — **1/4GG** — **316SS** **5**

6353-MFP TANK CLEANING NOZZLE

Model*

—

Nozzle

—

Material Code**

—

Capacity Size

EXAMPLE

6353 — **3/8HHMFP** — **316SS** **6014**

*Add B prior to the model number for BSPT connections.

**Leave blank when ordering brass. Specify SS for 303 stainless steel, and 316SS for Stainless Steel Type 316 (DIN 1.4571).

For lances, mounting kits, adapters and more, see page G6

**TANKJET 18250A TANK CLEANING NOZZLE
FEATURES AND BENEFITS**

- Three flat sprays mounted in a rotating spray head are driven by the flow of the cleaning liquid
- Precisely positioned orifices provide complete coverage of all interior surfaces
- Constructed for long-wear life using corrosion-resistant materials that also tolerate high-temperature operation
- Using single-pass or particulate-free cleaning liquid optimizes cleaning performance

SPECIFICATIONS

TankJet 18250A Tank Cleaning Nozzle	
Max. tank diameter:	8 ft. (2.4 m)
Operating principle:	Fluid-driven reactionary force
Flow rate:	10.5 to 55 gpm (48 to 205 lpm)
Operating pressure:	10 to 60 psi (0.7 to 4.1 bar)
Max. temperature:	350°F (177°C)
Materials:	Bearing retainers – Kolsterised stainless steel Sleeves – 50% stainless steel PTFE All other metallurgy – 316 stainless steel with Ryton® (polyphenylene sulfide)
Inlet connection:	3/4" NPT or BSPT (F)
Optional accessories:	Strainers, recommended mesh size: 200 (74 micron) See page G2


IDEAL FOR CLEANING:

- Barrels
- Chemical tanks
- Food vats
- Processing vessels

R
RINSING

**SPRAY
COVERAGE**

360°



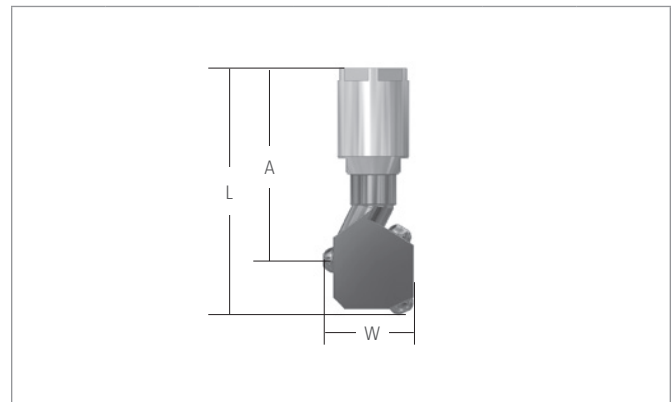
**MOUNTING
OPTIONS**

Vertical ↑ ↓



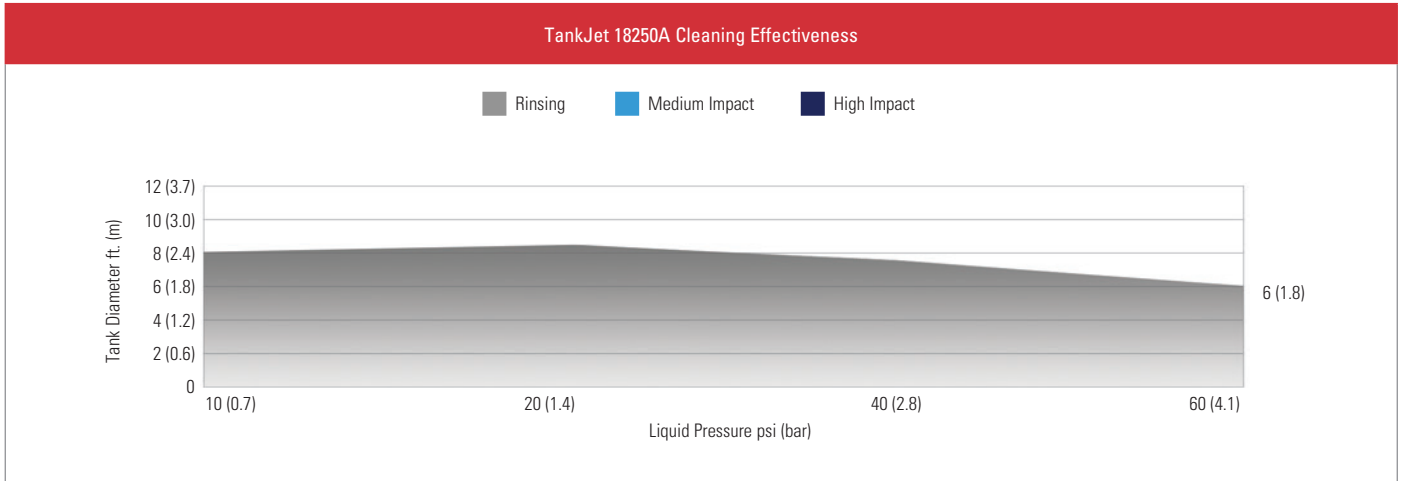
TankJet 18250A
tank cleaning nozzle

DIMENSIONS AND WEIGHTS



Model	L in. (mm)	W in. (mm)	A in. (mm)	Hex in. (mm)	Min. Tank Opening in. (mm)	Weight lbs. (kg)
18250A	5-3/4 (146)	2-3/16 (55.6)	4-13/16 (105.4)	1-5/8 (34.9)	2-3/8 (60.3)	1.5 (0.68)

PERFORMANCE DATA



Model 18250A		Liquid Flow Capacity gpm (lpm)					
Bearings and Races Material	Capacity Size	10 psi (0.7 bar)	20 psi (1.4 bar)	30 psi (2.1 bar)	40 psi (2.8 bar)	50 psi (3.4 bar)	60 psi (4.1 bar)
316SS	21	10.5 (48)	14.8 (59)	18.2 (68)	21 (76)	23 (83)	26 (96)
316SS	45	23 (103)	32 (126)	39 (145)	45 (162)	50 (178)	55 (205)

ORDERING INFORMATION

TANKJET 18250A TANK CLEANING NOZZLE

Model*

—

Bearings and Races Material

—

Capacity Size

—

Body Material Code

EXAMPLE

18250A

—

316SS

—

45

—

316SS

*Add B prior to the model for BSPT connections.

For lances, mounting kits, adapters and more, see page G6

TANK DIA.
UP TO **6.5 ft.** (2 m)

TANKJET® D41990 TANK CLEANING NOZZLE

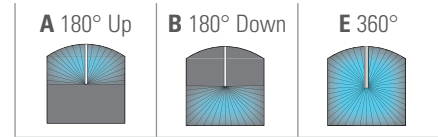
TANKJET D41990 TANK CLEANING NOZZLE FEATURES AND BENEFITS

- Low pressure, low volume rinsing of small tanks and containers
- Fluid-driven reactionary force nozzle – no motor source needed to drive spray head
- Micro-size nozzle fits into very small tank openings – as small as 1 in. (25 mm)
- All 316L stainless steel construction for long wear life and corrosion resistance
- Suitable for high temperature applications up to 265°F (130°C)
- ATEX-certified versions available upon request



R
RINSING

SPRAY COVERAGE



MOUNTING OPTIONS

Vertical	↑	↓
Horizontal	←	→
45° Up	↖	↗
45° Down	↙	↘



TankJet D41990
tank cleaning nozzle



TankJet D41990
tank cleaning nozzle,
see page D18

For lances, mounting kits, adapters and more,
see page G6

SPECIFICATIONS

TankJet D41990 Tank Cleaning Nozzle	
Max. tank diameter:	6.5 ft. (2.0 m)
Operating principle:	Fluid-driven reactionary force
Flow rate:	2.4 to 10.6 gpm (9.0 to 40 lpm)
Operating pressure:	15 to 60 psi (1.0 to 4.0 bar)
Max. temperature:	265°F (130°C)
Materials:	316L stainless steel
Inlet connection:	3/8", 1/2", 3/4" NPT or BSPT (F), CIP 182 or 192
Optional accessories:	Strainers, recommended mesh size: 200 (74 micron) See page G2

IDEAL FOR CLEANING:

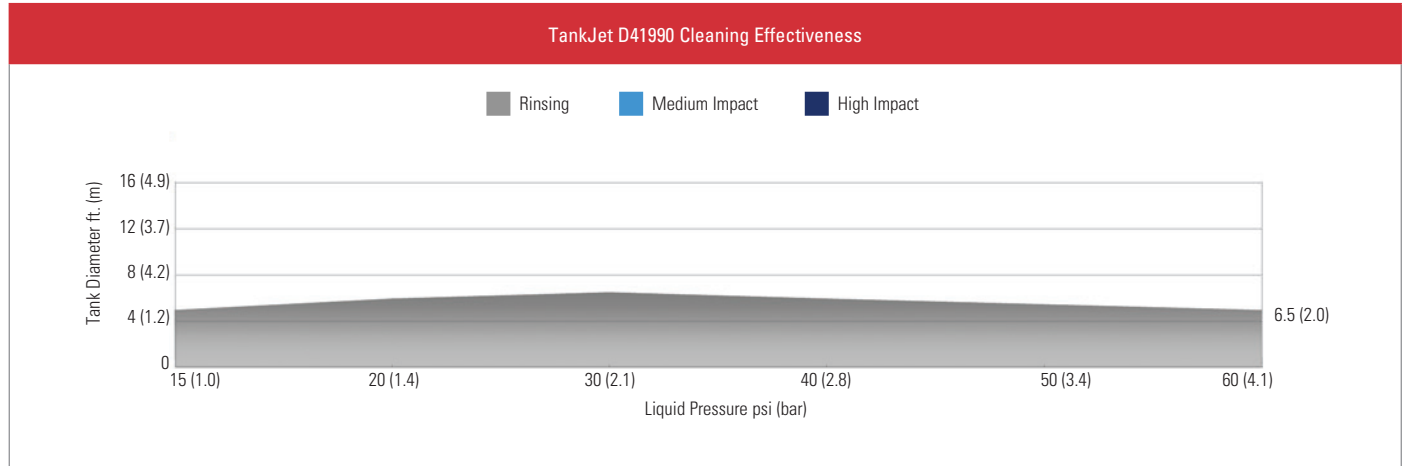
- Chemical tanks
- Beverage tanks
- Canisters
- Food tanks
- Kegs/drums
- Totes/containers

ADDITIONAL SIZES AVAILABLE

For D41990 up to 16 ft. see page D18



PERFORMANCE DATA



Nozzle Inlet	Capacity Size	Liquid Flow Capacity gpm (lpm)					
		15 psi (1.0 bar)	20 psi (1.4 bar)	30 psi (2.1 bar)	40 psi (2.8 bar)	50 psi (3.4 bar)	60 psi (4.1 bar)
3/8	3.2	2.4 (9.0)	2.7 (10.1)	3.1 (11.6)	3.4 (12.8)	3.6 (13.7)	3.9 (14.6)
	4.5	3.3 (12.5)	3.7 (14.1)	4.3 (16.3)	4.8 (18.1)	5.1 (19.4)	5.5 (21)
	6	4.4 (16.5)	4.9 (18.7)	5.7 (22)	6.4 (24)	6.9 (26)	7.3 (29)
	9	5.2 (19.5)	6.1 (23)	7.5 (29)	8.7 (33)	9.6 (26)	10.6 (40)

DIMENSIONS AND WEIGHTS

TankJet D41990 Tank Cleaning Nozzle	Inlet Conn. Size/Type	L in (mm)	A in (mm)	B in (mm)	C in (mm)	Pin Length in (mm)	Min. Tank Opening in (mm)	Weight lbs. (kg)
	3/8" Threaded	2.4 (60)	0.71 (18)	0.79 (20)	—	—	1 (25)	0.12 (0.05)
	CIP182	3.0 (77)	0.71 (18)	0.85 (21.5)	0.72 (18.2)	1.54 (39)	1.63 (41.4)	0.12 (0.05)

Additional sizes available:
Page D18 – 1/2 in., 3/4 in. and CIP192 conn.

ORDERING INFORMATION

TANKJET D41990 TANK CLEANING NOZZLE

Nozzle Type

Spray Coverage

Inlet Conn. Size/Type*

Material Code

Capacity Size

EXAMPLE

D41990

E

3/8

316L

3.2

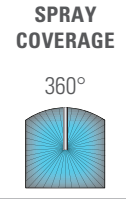
*Add B prior to inlet connection for BSPT connections.

TANK DIA.
UP TO **6.5 ft.** (2 m)

TANKJET® D41892 TANK CLEANING NOZZLE

TANKJET D41892 TANK CLEANING NOZZLE FEATURES AND BENEFITS

- Three flat sprays provide 360° coverage to rinse the entire tank
- The flow of the cleaning liquid drives spray head rotation
- Lightweight, durable and corrosion resistant
- CIP connection and ATEX-certified versions available upon request



MOUNTING OPTIONS	
Vertical	↑ ↓
Horizontal	← →
45° Up	↖ ↗
45° Down	↘ ↙

SPECIFICATIONS

Nozzle	TankJet D41892
Max. tank diameter:	6.5 ft (2.0 m)
Operating principle:	Fluid-driven reactionary force
Flow rate:	4.0 to 7.5 gpm (15.9 to 29 lpm)
Operating pressure:	20 to 70 psi (1.4 to 4.8 bar)
Max. temperature:	160°F (70°C)
Materials:	Polyacetal (POM)
Inlet connection:	3/8", 1/2" NPT or BSPT (F)
Optional accessories:	Strainers, recommended mesh size: 200 (74 micron) See page G2

IDEAL FOR CLEANING:

- Chemical containers
- Mixing tanks
- Food containers



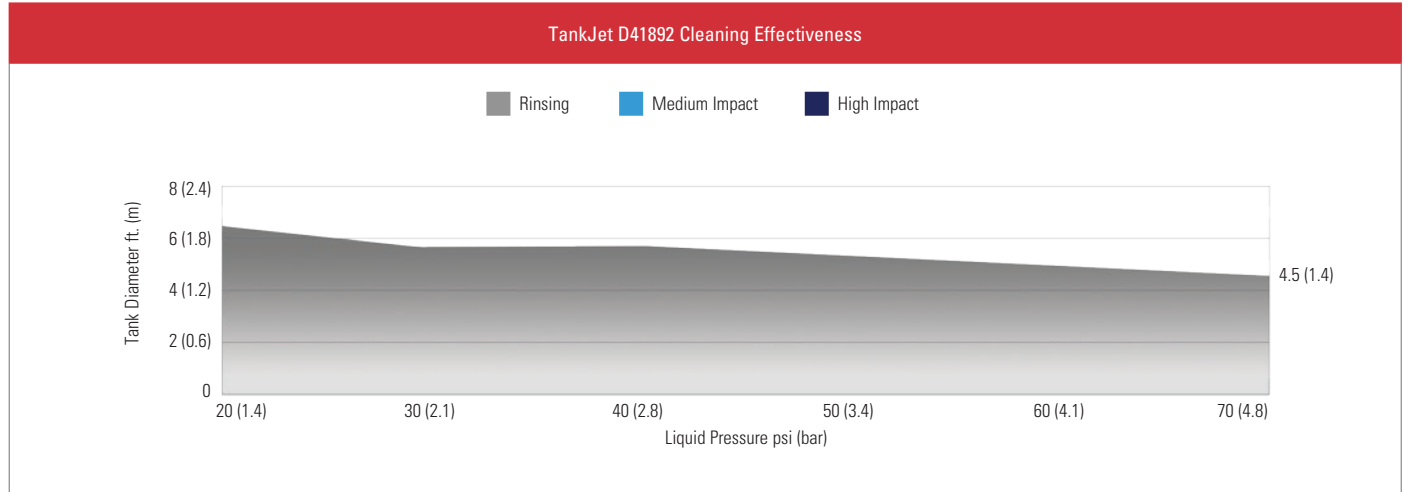
TankJet D41892
tank cleaning nozzle

DIMENSIONS AND WEIGHTS

Model	L in. (mm)	W in. (mm)	Min. Tank Opening in. (mm)	Weight lbs. (kg)
D41892	2.7 (68)	1.46 (37)	1-1/2 (37)	1.4 (0.04)



PERFORMANCE DATA



Inlet Conn. Size in.	Capacity Size	Liquid Flow Capacity gpm (lpm)					
		20 psi (1.4 bar)	30 psi (2.1 bar)	40 psi (2.8 bar)	50 psi (3.4 bar)	60 psi (4.1 bar)	70 psi (4.8 bar)
3/8	6	4.0 (15.9)	4.9 (18.3)	5.7 (20.5)	6.4 (22.5)	7.0 (26)	7.5 (29)
1/2							

ORDERING INFORMATION

TANKJET D41892 TANK CLEANING NOZZLE

Model

-

Inlet Conn. Size*

-

Material Code

-

Capacity Size

EXAMPLE

D41892
-
1/2
-
POM
-
6

*Add B prior to inlet connection for BSPT connections.

For lances, mounting kits, adapters and more,
see page G6



**TANKJET 9 TANK CLEANING NOZZLE
FEATURES AND BENEFITS**

- Multiple flat spray nozzles are mounted in a rotating spray head that is driven by the flow of the cleaning liquid
- Simple and reliable, with no ball bearings, tank cleaners operate effectively in any position, vertical or horizontal
- Well-suited to clean-in-place and sanitary applications, chemical distribution and passivation
- Offered in three versions for medium-size tanks:
 - TankJet 9-A features two flat side sprays, each covering 175°
 - The TankJet 9-B and 9-C versions each have six flat sprays and provide coverage of the entire tank



TankJet 9-A tank cleaning nozzle



TankJet 9-B tank cleaning nozzle, see page D20



TankJet 9-C tank cleaning nozzle, see page D20



SPRAY COVERAGE

TJ9-A
2 x 175°

MOUNTING OPTIONS

Vertical	↑	↓
Horizontal	←	→
45° Up	↖	↗
45° Down	↙	↘

SPECIFICATIONS

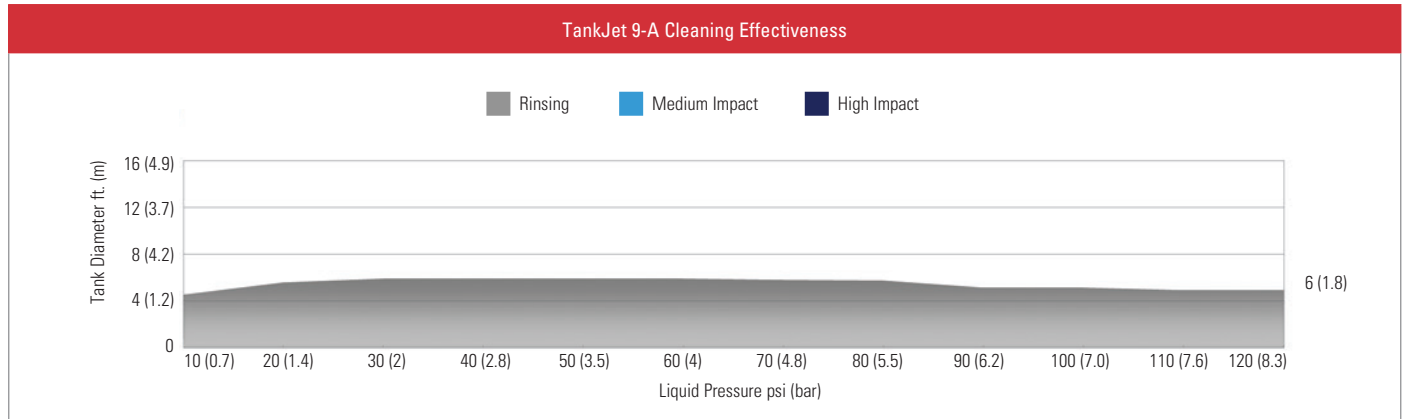
TankJet 9-A Tank Cleaning Nozzle	
Max. tank diameter:	6 ft. (1.8 m)
Operating principle:	Fluid-driven reactionary force
Flow rate:	1.3 to 5 gpm (4.9 to 18.9 lpm)
Operating pressure:	10 to 120 psi (0.7 to 8.3 bar)
Max. temperature:	190°F (88°C)
Materials:	Bearings – Carbon filled PTFE fluoropolymer All other metallurgy – 316 stainless steel
Inlet connection:	3/8" NPT or BSPT (F)
Optional accessories:	Strainers, recommended mesh size: 20 (840 micron) See page G2

IDEAL FOR CLEANING:

- Brewery tanks
- Chemical containers
- Drums and kegs
- Food processing tanks
- Pharmaceutical tanks
- Wine barrels and vats

For lances, mounting kits, adapters and more, see page G6

PERFORMANCE DATA

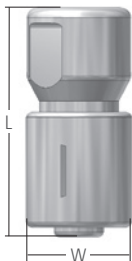


Model	Model Type	Liquid Flow Capacity gpm (lpm)							
		10 psi (0.7 bar)	30 psi (2.1 bar)	50 psi (3.4 bar)	70 psi (4.8 bar)	90 psi (6.2 bar)	100 psi (7.0 bar)	110 psi (7.6 bar)	120 psi (8.3 bar)
TJ9	A	1.3 (4.9)	2.5 (9.5)	3.0 (11.4)	4.0 (15.1)	4.5 (17)	4.7 (17.8)	4.9 (18.5)	5.0 (18.9)

ADDITIONAL SIZES AVAILABLE

TankJet 9-B & 9-C see page D20

DIMENSIONS AND WEIGHTS

TankJet 9 Tank Cleaning Nozzle	L in. (mm)	W in. (mm)	Min. tank opening in. (mm)	Weight lbs. (kg)
	2.31 (59)	1.06 (27)	1.25 (32)	0.34 (0.15)

Additional sizes available:
Page D20 – 1/2 and 3/4 in. conn.

ORDERING INFORMATION
TANKJET 9-A TANK CLEANING NOZZLE

Model

Inlet Conn.*

—

Type

EXAMPLE

TJ9

—

A

* Leave blank for NPT connection or insert B for BSPT connection.

Cereal Manufacturer Improves Worker Safety and Increases Production Time with New Cleaning Equipment

PROBLEM:

A leading producer of breakfast cereals needed to thoroughly clean the oven used for drying cereal. High pressure spray bars were used to clean the dryer belt between batches. However, the cleaning was inadequate so a worker using a high pressure spray gun was also assigned to this task. The cleaning process required more than two hours. Despite the cleaning effort, crumbs sometimes remained and caused quality problems with subsequent batches of cereal. In addition, the manual cleaning process created safety concerns because the worker had to stand on a ladder the entire time.

Call your local spray expert to explore your tank cleaning options.

SOLUTION:

Spraying Systems Co.'s TankJet® 14 tank cleaner solved the manufacturer's problem. Two TankJet 14 units, one positioned above and one positioned inside the dryer belt, provide effective cleaning of the oven's interior surfaces. Spraying at 175 psi (12 bar), the rotating action of the nozzles sweep the cereal crumbs from the mesh belt and also clean the dryer walls and ceiling.

RESULTS:

The automated equipment has improved the cleaning process and eliminated the product quality and safety issues previously experienced. Workers have been assigned to other tasks. Based on labor savings alone, the TankJet units paid for themselves in less than two months. Use of the tank cleaners has also reduced cleaning time by 15%. When the increased production time is considered, the investment in the new equipment was recouped in less than a month.



TankJet 14 tank cleaner, see page D26

