

# TankJet® BX Injector

Efficient Transformation of Steam and Cold Water into High-Pressure, High-Temperature Liquid Feeds

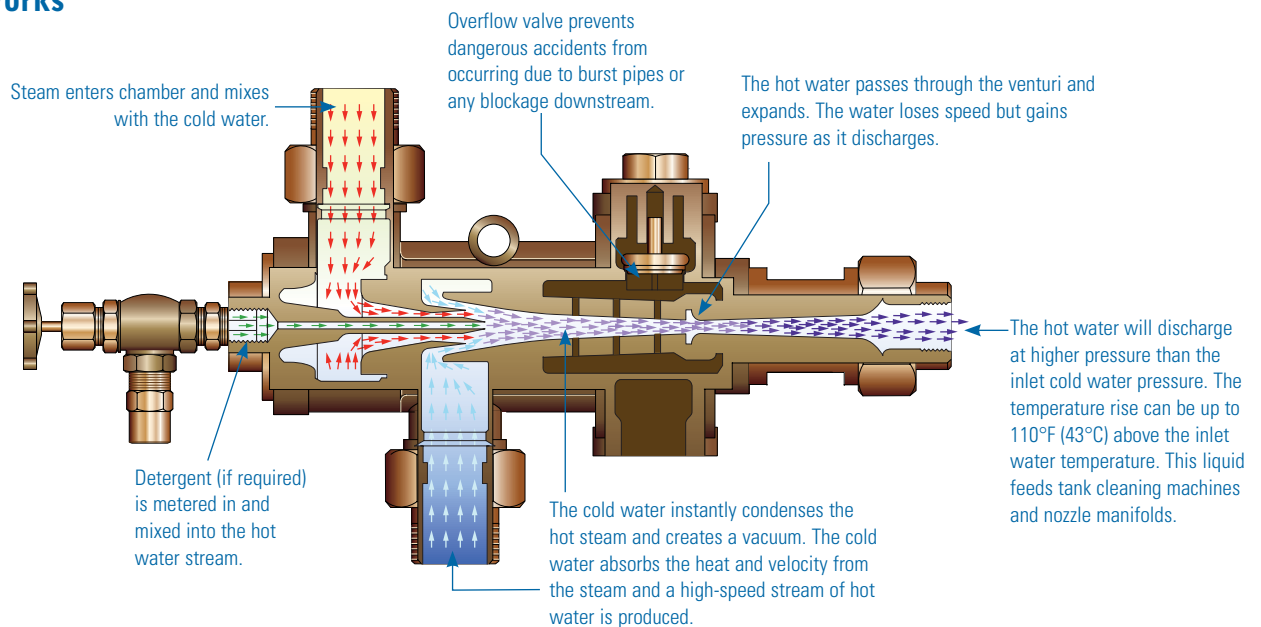
## Features and Benefits

- Ideal feed device for tank cleaning machines and custom-designed nozzle manifolds
- Non-intrusive: suitable for use with cold, low-pressure city water and existing plant steam
- Produces a high-pressure, high-temperature liquid discharge stream
- Increased pressure provides higher impact for cleaning tough residues
- Higher temperature speeds cleaning by quickly breaking down soil
- Eliminates the need for expensive pumps and heat exchangers
- Built-in overflow valve ensures safe operation
- Provides chemical injection via a liquid control valve that siphons chemicals or detergents to maximize cleaning efficiency



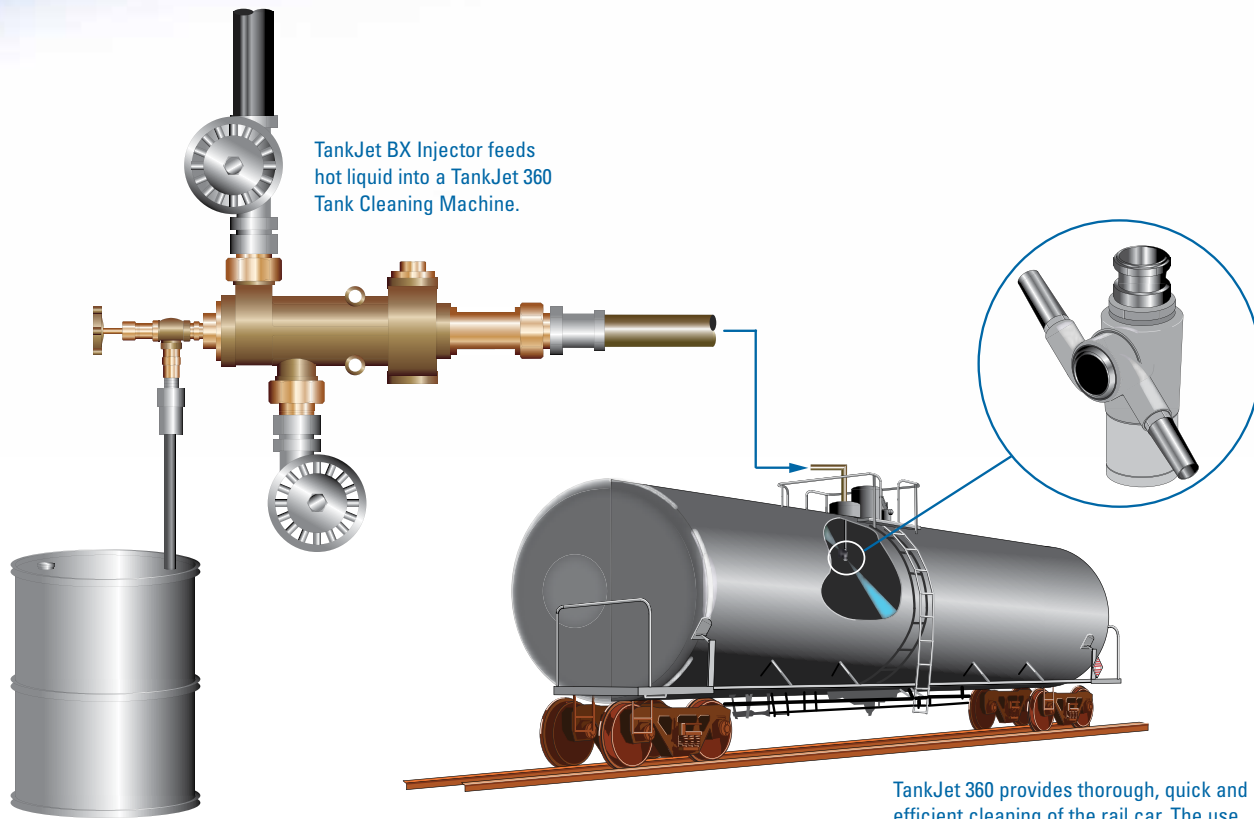
**TankJet BX Injector**  
For liquid discharge capacities  
up to 110 gpm (416 l/min)

## How It Works



## Typical Application

### TankJet BX Injector Use in Rail Car Cleaning

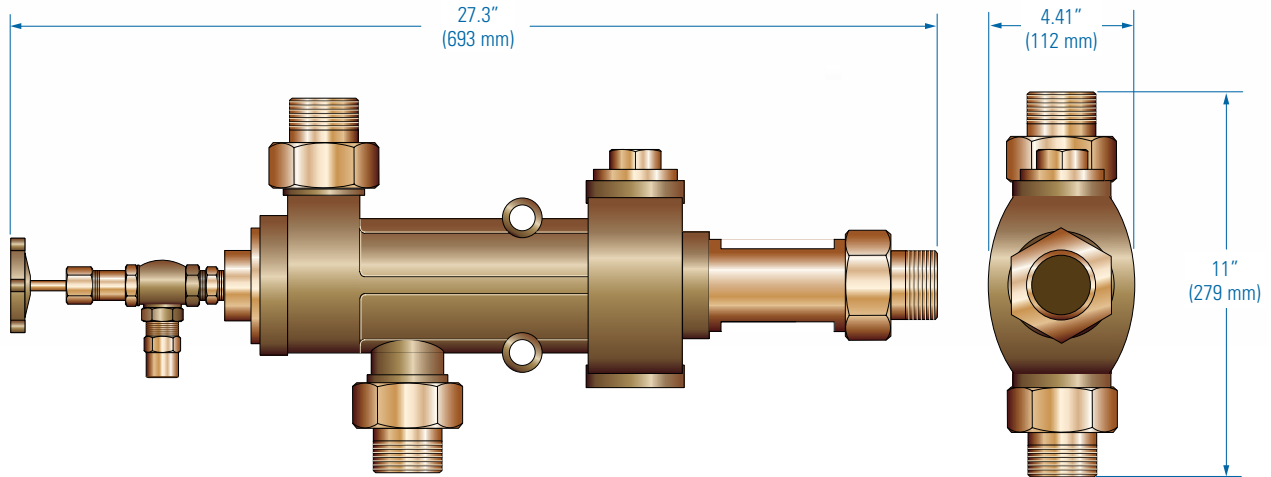


TankJet 360 provides thorough, quick and efficient cleaning of the rail car. The use of hot water shortens cleaning time.

## Performance Data

TankJet Injector No.	Steam Capacity lbs/hr (kg/hr)	Inlet Steam Pressure psi (bar)				
		50 (3.4)	75 (5.2)	100 (6.9)	125 (8.6)	150 (10.3)
		Maximum Liquid Discharge Pressure psi (bar)				
		120 (8.3)	170 (11.7)	220 (15.2)	280 (19.3)	340 (23.4)
Liquid Discharge Capacity gpm (l/min)						
TJBX-30	1000 to 3000 (454 to 1361)	30 (114)	35 (132)	45 (170)	50 (189)	55 (208)
TJBX-50	1700 to 4500 (771 to 2041)	50 (189)	60 (227)	70 (265)	75 (284)	80 (303)
TJBX-70	2500 to 6000 (1134 to 2722)	70 (265)	80 (303)	90 (341)	100 (379)	110 (416)

Dimensions



Specifications





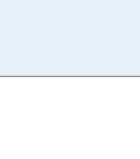

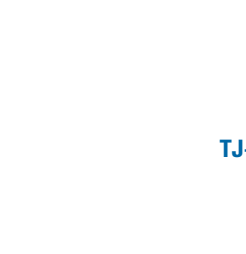
<b>Inlet steam pressure range:</b>	50 to 150 psi (3.4 to 10.3 bar)
<b>Steam capacity range:</b>	1000 to 6000 lbs/hr (454 to 2722 kgs/hr)
<b>Max. liquid discharge pressure range:</b>	120 to 340 psi (8.3 to 23.4 bar)
<b>Liquid discharge flow rate range:</b>	30 to 110 gpm (114 to 416 l/min)
<b>Max. liquid discharge temperature:</b>	180°F (82°C)
<b>Inlet conn.:</b>	Steam: 1-1/2" NPT or BSPT (M); Water: 1-1/2" NPT or BSPT (M); Detergent: 1/2" NPT or BSPT (M)
<b>Outlet conn.:</b>	Discharge: 1-1/2" NPT or BSPT (M); Overflow: 2" NPT (F) or BSPT (M)
<b>Weight:</b>	48 lbs (22 kg)
<b>Materials:</b>	Brass with 303SS detergent tube and EP O-ring

Ordering Information

TankJet BX Injector				
TJBX	–	30	–	—*
I Injector No.		I Model Type		I Conn.

\*Add B for BSPT connections. If NPT connection, leave blank.

## Tank Cleaning Nozzles Commonly Used with TankJet BX Injector

TankJet Tank Cleaning Nozzles	Nozzle Type/Size in (mm)	Compatible Injector Type	Injector Steam Inlet Pressure Range psi (bar)	Tank Cleaning Nozzles Operating Pressure Range psi (bar)	Tank Cleaning Nozzles Flow Rate Range gpm (l/min)
 <p><b>TJ-16</b></p>	C, D, G	TJBX30	100 to 150 (6.9 to 10.3)	60 to 100 (4.1 to 6.9)	45 to 55 (170 to 208)
		TJBX50	50 to 150 (3.4 to 10.3)	80 to 200 (5.5 to 13.8)	50 to 80 (189 to 303)
	H	TJBX30	75 to 150 (5.2 to 10.3)	50 to 110 (3.4 to 7.6)	35 to 55 (132 to 208)
		TJBX50	50 to 125 (3.4 to 8.6)	95 to 200 (6.6 to 13.8)	50 to 75 (3.4 to 5.2)
 <p><b>TJ-65</b></p>	1/4 (6.4)	TJBX30	50 to 150 (3.4 to 10.3)	50 to 120 (3.4 to 8.3)	30 to 55 (114 to 208)
		TJBX50	50 to 75 (3.4 to 5.2)	105 to 140 (7.2 to 9.7)	50 to 60 (189 to 227)
	5/16 (7.9)	TJBX50	75 to 150 (5.2 to 10.3)	70 to 115 (4.8 to 7.9)	60 to 80 (227 to 303)
		TJBX70	50 to 100 (3.4 to 6.9)	90 to 150 (6.2 to 10.3)	70 to 90 (265 to 341)
	3/8 (9.5)	TJBX50	75 to 150 (5.2 to 10.3)	55 to 95 (3.8 to 6.6)	60 to 80 (227 to 303)
		TJBX70	50 to 125 (3.4 to 8.6)	75 to 150 (5.2 to 10.3)	70 to 100 (265 to 379)
 <p><b>TJ-65-HT</b></p>	1/4 (6.4)	TJBX70	50 to 150 (3.4 to 10.3)	58 to 135 (4.0 to 9.3)	70 to 110 (265 to 416)
	5/16 (7.9)	TJBX70	50 to 150 (3.4 to 10.3)	55 to 115 (3.8 to 7.9)	70 to 110 (265 to 416)
	3/8 (9.5)	TJBX70	100 to 150 (6.9 to 10.3)	55 to 75 (3.8 to 5.2)	90 to 110 (341 to 416)
 <p><b>TJ-80-2</b></p>	3/8 (9.5)	TJBX50	50 to 150 (3.4 to 10.3)	50 to 130 (3.4 to 9.0)	50 to 80 (189 to 303)
		TJBX70	50 to 90 (3.4 to 6.2)	102 to 150 (7.0 to 10.3)	70 to 85 (265 to 322)
	7/16 (11.1)	TJBX50	90 to 150 (6.2 to 10.3)	65 to 105 (4.5 to 7.2)	65 to 80 (246 to 303)
		TJBX70	50 to 115 (3.4 to 7.9)	80 to 150 (5.5 to 10.3)	70 to 95 (265 to 360)
 <p><b>TJ-80-3</b></p>	5/16 (7.9)	TJBX50	75 to 150 (5.2 to 10.3)	60 to 125 (4.1 to 8.6)	60 to 80 (227 to 303)
		TJBX70	50 to 100 (3.4 to 6.9)	95 to 150 (6.6 to 10.3)	70 to 90 (265 to 341)
	3/8 (9.5)	TJBX70	115 to 150 (7.9 to 10.3)	68 to 110 (4.7 to 7.6)	95 to 110 (360 to 416)
 <p><b>TJ-360-2</b></p>	1/4 (6.4)	TJBX30	50 to 150 (3.4 to 10.3)	40 to 150 (2.8 to 10.3)	30 to 55 (114 to 208)
		TJBX50	50 to 150 (3.4 to 10.3)	120 to 340 (8.3 to 23.4)	50 to 80 (189 to 303)
	9/32 (7.1)	TJBX30	75 to 150 (5.2 to 10.3)	40 to 110 (2.8 to 7.6)	35 to 55 (132 to 208)
		TJBX50	50 to 150 (3.4 to 10.3)	80 to 220 (5.5 to 15.2)	50 to 80 (189 to 303)
	5/16 (7.9)	TJBX70	50 to 125 (3.4 to 8.6)	170 to 350 (11.7 to 24.1)	70 to 100 (265 to 379)
		TJBX30	115 to 150 (7.9 to 10.3)	40 to 55 (2.8 to 3.8)	40 to 75 (151 to 284)
		TJBX50	50 to 150 (3.4 to 10.3)	60 to 155 (4.1 to 10.7)	50 to 80 (189 to 303)
	3/8 (9.5)	TJBX70	50 to 150 (3.4 to 10.3)	120 to 290 (8.3 to 20.0)	70 to 110 (265 to 416)
		TJBX50	60 to 150 (4.1 to 10.3)	40 to 90 (2.8 to 6.2)	55 to 80 (208 to 303)
	7/16 (11.1)	TJBX70	50 to 150 (3.4 to 10.3)	70 to 165 (4.8 to 11.4)	70 to 110 (265 to 416)
	1/2 (12.7)	TJBX70	50 to 150 (3.4 to 10.3)	45 to 105 (3.1 to 7.2)	70 to 110 (265 to 416)
9/16 (14.3)	TJBX70	75 to 150 (5.2 to 10.3)	40 to 75 (2.8 to 5.2)	80 to 110 (303 to 416)	
 <p><b>TJ-360-3</b></p>	1/4 (6.4)	TJBX70	90 to 150 (6.2 to 10.3)	40 to 55 (2.8 to 3.8)	90 to 110 (341 to 416)
		TJBX30	90 to 150 (6.2 to 10.3)	40 to 72 (2.8 to 5.0)	40 to 55 (151 to 208)
		TJBX50	50 to 150 (3.4 to 10.3)	60 to 155 (4.1 to 10.7)	50 to 80 (189 to 303)
	9/32 (7.1)	TJBX70	50 to 150 (3.4 to 10.3)	120 to 290 (8.3 to 20.0)	70 to 110 (265 to 416)
		TJBX50	50 to 150 (3.4 to 10.3)	40 to 110 (2.8 to 7.6)	50 to 80 (189 to 303)
	5/16 (7.9)	TJBX70	50 to 150 (3.4 to 10.3)	80 to 205 (5.5 to 14.1)	70 to 110 (265 to 416)
		TJBX50	65 to 150 (4.5 to 10.3)	40 to 80 (2.8 to 5.5)	55 to 80 (208 to 303)
	3/8 (9.5)	TJBX70	50 to 150 (3.4 to 10.3)	60 to 150 (4.1 to 10.3)	70 to 110 (265 to 416)
	7/16 (11.1)	TJBX70	50 to 150 (3.4 to 10.3)	40 to 90 (2.8 to 6.2)	70 to 110 (265 to 416)
	7/16 (11.1)	TJBX70	100 to 150 (6.9 to 10.3)	40 to 60 (2.8 to 4.1)	90 to 110 (341 to 416)