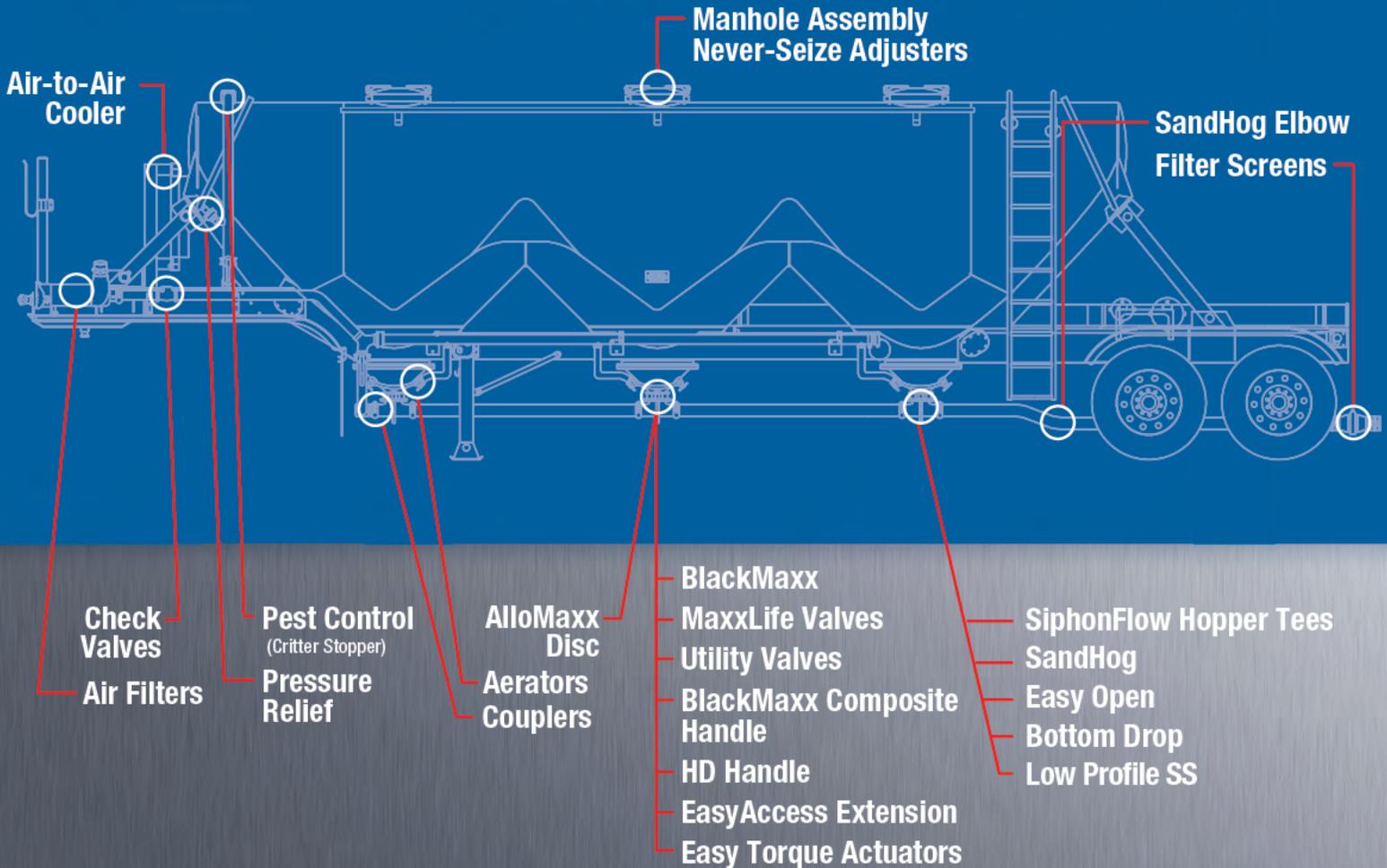




**BTI. One stop for all your Pneumatic Solutions.**



**The full line of BTI Products  
Proudly and Completely Made in the USA**



**800-841-5524 • www.BulkTankInc.com**



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# BlackMaxx

Composite Fiber Butterfly Valves

Seats: Black MaxxLife - White MaxxLife\*  
Sizes: 2" to 8"  
Stem Extensions: 3" - 48"

**Features and Benefits:**  
Composite Fiber for strength and weight reduction  
High Flow Rate  
Reduced Torque  
No Disc Screws  
Lighter Weight  
Upper Stem Seal Lubrication  
Double D Stepped Stem  
Seat Interlocks to Body  
MaxxLife FDA Compliant Seat  
Stainless Steel, Ductile, or AlloMaxx Disc

## AlloMaxx™

Ultra Light-Weight Discs by B.T.I.

Replaces Ductile or Stainless Steel  
Food Grade or Abrasive materials  
Stronger than Ductile Iron  
With BlackMaxx allows for 50% reduction in weight  
30% more flow than ductile iron disc



Seats: Black MaxxLife and White MaxxLife\*  
Sizes: 2" to 12"  
Stem Extensions: 3" - 48"

**Features and Benefits:**

High Flow Rate  
Reduced Torque  
No Disc Screws  
Lighter Weight  
Upper Stem Seal Lubrication  
Double D Stepped Stem  
Seat Interlocks to Body  
HD Handle/Stainless Steel Plate  
MaxxLife FDA Compliant Seat  
Stainless Steel, Ductile, or AlloMaxx Disc - a great food grade alternative to stainless

## MAXXLIFE

Transportation Butterfly Valves from B.T.I.



## Utility

100% Made in USA - all Components & Labor

Same features as MaxxLife but only available in the following configuration:

Seat: Black Buna-N  
Disc: Ductile Iron



- The standard BlackMAXX Composite HD Handle is 43% lighter than an industry standard stamped steel handle
- The BlackMAXX handle is 25% lighter than an aluminum HD Handle
- Fastener free handle retention - interlocking throttle plate
- Corrosion resistant

## BlackMaxx Composite HD Handle

- Static Shock resistant
- Priced at or below imports
- Lifetime Warranty

Fits all standard butterfly valves and is available in two sizes for your specific application.



## EasyAccess™

Multi-Angle Butterfly Valve Neck Extension

**Features and Benefits:**

Keeps user clear of hot supply lines  
Avoid back strain - lowering workers' comp claims  
Multi-Angle to fit any situation  
Lubrication Chamber  
Booted to keep road dirt and grime out



## HD Valve Handle

It's the definition of TOUGH.

**Features and Benefits:**  
Aluminum Body for Light Weight  
Stainless Steel Trigger for Long Life  
Corrosion-resistant composite trigger for smooth operation

Ergonomic Offset for Increased Leverage

Straight HD Handle For Smaller Airlines



## Ultra-Lightweight Aeration Butterfly Valve

**Features and Benefits:**

Connect directly to air line  
Weighs a fraction of conventional aeration valves - 1.5 lbs!  
Same flow as conventional ball valves  
4 configurations:

- King nipple to female
- King nipple to king nipple
- Female to female
- King nipple to flanged

Other connections available upon request



Provides superior performance and critical weight-savings

## Easytork

ROTARY PNEUMATIC ACTUATORS

**Features and Benefits:**

Quieter Operation  
No negative effects due to moisture  
Small Foot Print  
Less Air Consumption  
Unique design allows fail safe operation  
2 Year Full Warranty  
One Internal Moving Part and no Corrosion Prone Spring



\*MaxxLife Seats are not suitable for fuel/petroleum service.



**Bottom Drop or Straight**

**Features and Benefits:**

- EXTREME Wear Resistance
- Unique Ledge Protects Critical Wear Areas
- BTI's Duralon that Provides Over Twice the Wear
- Patented SiphonFlow Technology for Faster Unloading
- Thicker Construction in Critical Wear Areas



Original Duralon®

US Patent #10,145,500

**3 Connection Configurations**

- Straight
- Female Cam connection
- Male Cam connection

**BTI SandHog™ Elbow**

**Configurations:** two cam and groove configurations: female to male and male to female

**Angle:** 45° or use 2 to make 90°

**Features and Benefits:**

- EXTREME Wear Resistance for highly abrasive materials like frac sand
- Unique Spherical Pocket Design
- Protects Critical Wear Areas
- Side Unloading as well as Rear Unloading



Original Duralon®

**BTI SiphonFlow™ EasyOpen Hopper Tee**



**Features and Benefits:**

- No Bolts Easy to Remove for Cleaning
- Easy to Adjust
- Faster Unloading
- Easy to Clean
- Polymer and Oil Impregnated Bushings at Pivot Points
- Eliminates the Danger of Contamination
- Fewer Parts Means Less Maintenance

**BTI's ULTRA-LIGHT MANHOLE ASSEMBLY**

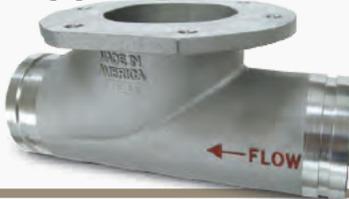
- Self-Aligning Lid Gasket** - Keeps lid aligned and metal shavings from entering your load
- Wearplate** - New design allows for easy and quick replacement of wear plates.

**BTI's Never-Seize Dry Bulk Manhole Adjusters**

are guaranteed to keep your adjusters operating longer and working better. Never-seize adjusters come with a 10-year warranty. Parts are interchangeable with leading manufacturers.



**BTI SiphonFlow™ Straight Hopper Tee**

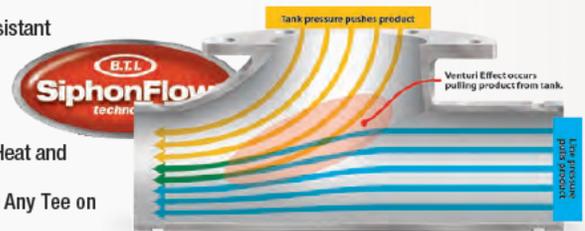


Sizes: 5" - 6" - 8"

Material: Aluminum or Abrasion Resistant Duralon™

**Features and Benefits:**

- Fastest Unloading Tee on the Market
- Lightweight • Longer Lasting
- Creates Less Turbulence - Reduces Heat and Friction
- Approx. 300 SCFM s More Flow Than Any Tee on the Market Today



**BTI SiphonFlow™ Bottom Drop Hopper Tee**



Sizes: 5" - 6" - 8"

Material: Aluminum or Abrasion Resistant Duralon™

**Features and Benefits:**

- No Bolts • Always Perfectly Aligned to Prevent Accidental Discharge
- Faster Unloading • Easy to Clean
- Polymer Bushings at Pivot Points

**BTI Critter Stopper**



Sizes: 3" - 4"

- Eliminates Small Rodents and Insect Contamination
- Flap Allows Air Out But Nothing In
- Attaches to End of Blow-Down Line

**SpinFlow™ AERATION SYSTEM**



**Port Configurations:** 1-3

**Housing:** Clea or Natural

**Features and Benefits**

- Up to 20% Faster Unloading
- Increased Pressure Velocity
- Prevents Back Flush

**Rubbers:** Blue or FDA Approved White Rubber designed to Last Longer with out premature cracking or splitting.

## All-in-One Coupler



Body: Aluminum or BlackMaxx Composite Fiber  
 Sizes: Aluminum: 3" - 4" - 5" BlackMaxx: 4"  
 Closure: Bolt-On Tee or Cam Handle  
 Gasket: White FDA Approved - Solid or Split  
 Features and Benefits:  
 One Coupler for Plain to Plain, Groove to Plain, and Groove to Groove  
 Light Weight Aluminum Die Cast  
 Eliminates Unnecessary Parts Costs  
 Hinge Design Matches Gasket Curve - Eliminates Pinching  
 Split Gasket Seals First time and Every Time  
 Provides Continuous Grounding  
 FDA Approved Lubricant in Gasket Eliminates Need for Additional Lubrication  
 Cuts Cleaning Time  
 Polymer Bushings Eliminates Gallling and Seizing  
 Lock Pin Provides Secure Closure

## Bolt-On Coupler



Body: Aluminum  
 Sizes: 3" - 4"  
 Closure: Bolt-On  
 Gasket: White FDA Approved - Solid or Split  
 Features and Benefits:  
 Grooved to Grooved, Grooved to Plain, and Plain to Plain  
 Light Weight Aluminum Die Cast  
 Provides Continuous Grounding  
 Split Gasket Seals First time and Every Time  
 FDA Approved Lubricant in Gasket  
 Eliminates Need for Additional Lubrication

## OPTIMA CHECK VALVES BY BTI

Sizes: 2", 3" and 4" Flat Poppet  
 Gasket: White FDA Approved  
 Features and Benefits:  
 Long Life Coil Spring • Light Weight

Spring Housing Protects Load from Contamination  
 Fewer Internal Parts- Reduced Risk of Contamination  
 Bell Housing Provides More Open Area & Less Back Pressure  
 Guide Bushings Regulate Opening and Protects Spring  
 Flat face poppet allows for more open area for flow and less back pressure. Self-sealing gasket design.



## All-in ONE Pressure Relief Valve

Shown with Male Cam Lock Fitting



Sizes: 2"  
 Release: Adjustable - Fixed - Manual  
 Pressure Ratings: 5-30 PSI  
 Features and Benefits:  
 Long Life Coil Spring  
 Fewer Internal Parts- Light Weight and Reduced Risk of Contamination  
 Bell Housing Provides More Open Area and Less Back Pressure  
 High to Low Temperatures  
 Male Cam Lock Fitting, Male Anodized Threads and Female Anodized Threads  
 FDA Approved Seat  
 Tamper Proof Body

## AccuSafe PRESSURE RELIEF VALVE



Sizes: 2"  
 Features and Benefits:  
 Machined top and bottom stainless steel spring guide tubes to ensure consistent function and repeatability  
 Unique poppet and spring design allows for smooth and consistent air flow, eliminating "air shutter" found with standard poppet designs which causes fluctuating air pressure  
 Precision machined S.S. poppet with optimized huddle chamber  
 One-piece FDA-Compliant High-Temperature Diaphragm to protect and eliminate contamination to the working components from dirt, water and ice  
 3 Connection Options  
 Male 2" Cam Fitting • Male 2" NPT Threads • Female 2" NPT Threads  
 - Hard anodized to protect and extend life  
 Multiple Configurations Available  
 Non-Adjustable, Manual-Release and Adjustable  
 Tamper-Proof Seal

## BTI Pneumatic Conveying Filter Screen

Sizes: 4" - 5" - 6"  
 Screen Options: 1/4", 3/8" and 7/16" sizes  
 Connections: Male Pipe Threads, Male Cam Lock, Female Cam Lock  
 Features and Benefits:  
 Bell Housing Creates 40% More Open Area  
 - Flow is Not Restricted  
 One-Piece Cast Aluminum Housings • Lighter than Conventional Filters • Filter Screen is Molded in to Gasket • Quick Coupler makes Cleaning Fast and Easy • Tamper Proof - If Filter is Removed, Unit Will Not Hold Pressure



## SpinFlow Filter/Silencer

Features and Benefits:  
 Silencer Built in to Unit  
 Reduces Back Pressure  
 Reduces Heat Build Up  
 Airflow Spin Helps to Utilize Complete Filter Surface  
 Single Lever Cam Lid  
 Easy to Clean  
 Fewer Adjustments  
 Tamper Proof



## HD Filter

Features and Benefits:  
 Tapered end caps for easy installation  
 Permanent date stamp  
 Top mounted temperature indicator  
 Spiral welded core that is welded to the end caps for extra strength  
 Center band more stability and strength in a side air inlet housing  
 High strength potting material  
 Optional FDA Compliant Teflon® membrane



## BTI Low Profile Stainless Steel Hopper Tee

Sizes: 5" & 6"  
 Material: Light Weight Stainless Steel

Features and Benefits:  
 Introducing the industry's first American made, food grade, investment cast, ultra-light weight, low profile hopper tee.



## BTI Trailer Mounted Air-to-Air Cooler

The ultimate protection for heat sensitive loads  
 Two Configurations: Discharge/Intake on Fan Side and Discharge/Intake opposite Fan Side

Features and Benefits:  
 Provides cooled air to the dry bulk material.  
 Cooler is automatic - no special procedure is required.  
 Virtually maintenance free.  
 Requires no external water, air, or electric source.  
 Victaulic groove on the piping stub coming from the cooler, intake and discharge ports.  
 Compact, light, inexpensive, and does not affect the size of the trailer.



## Light Weight Front Mount SpinFlow Filter System

Over 5 lbs. lighter  
 Front Hose Inlet Connection  
 Exterior Filter Guide Protects from Load contamination



## Light Weight Standard SpinFlow Filter System

Over 5 lbs. lighter  
 4-inch Rear Connector  
 Exterior Filter Guide Protects from Load contamination





***BTI Employees Thank You for Buying American Made***



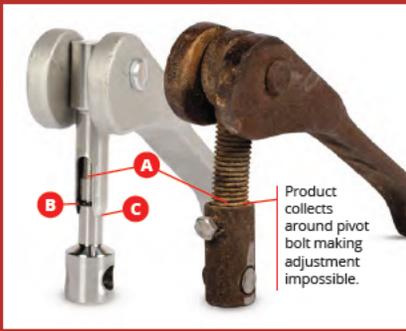


# SAVE \$1,000s in Maintenance Cost



## BTI's ULTRA-LIGHT MANHOLE ASSEMBLY

Manhole maintenance is extremely expensive. BTI's Ultra-Light Manhole Assembly is the industry's first and only assembly designed to expressly save maintenance costs. Check out these 3 patent-pending features.



### #1 BTI's Never-Seize Dry Bulk Manhole Adjusters

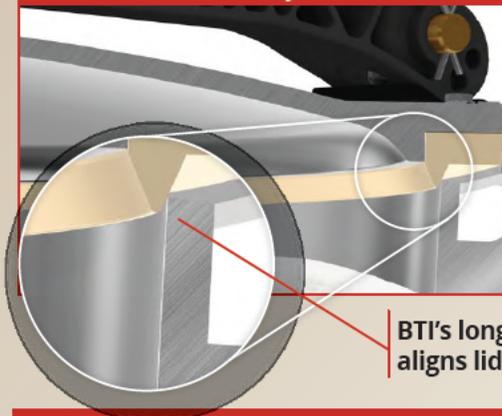
Guaranteed to keep your adjusters operating longer and working better.

- A** Sealed adjustment threads
- B** O-Ring Seal - Protects contamination of threads
- C** Built-in Scraper

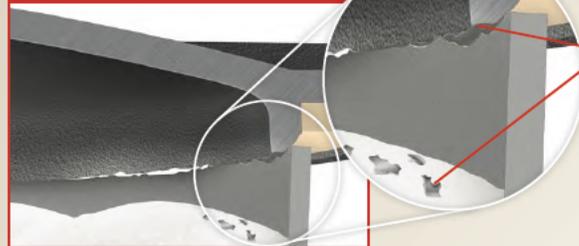
Never-seize adjusters come with a 10-year warranty. Parts are interchangeable with leading manufacturers.

### #2 Self-Aligning Lid Gasket - Saves your lid and collar

BTI's Never-Seize Assembly



Competitor's Assembly



Competitor's lid with metal alignment lip causes chipping of collar and aligner allowing metal to end up in the load.

BTI's long-lasting and super tough FDA compliant gasket aligns lid to collar preventing metal-to-metal contact.

### #3 Wearplate - New design allows for easy and quick replacement of wear plates

Not all replaceable wearplates are replaceable.

Competitor's Assembly



Corrosion builds up between the lid and the bolts making the replaceable wearplate *non-replaceable*. When it is time to replace the wearplates the heads of the bolts break off causing major time and, in some cases, total lid replacement.

BTI's Never-Seize Assembly



**Problem solved.**

BTI's innovative solution stops corrosion and is guaranteed to provide years of problem free operation. Saving time and money!

All BTI products are guaranteed to:

**LAST LONGER. WORK BETTER.**

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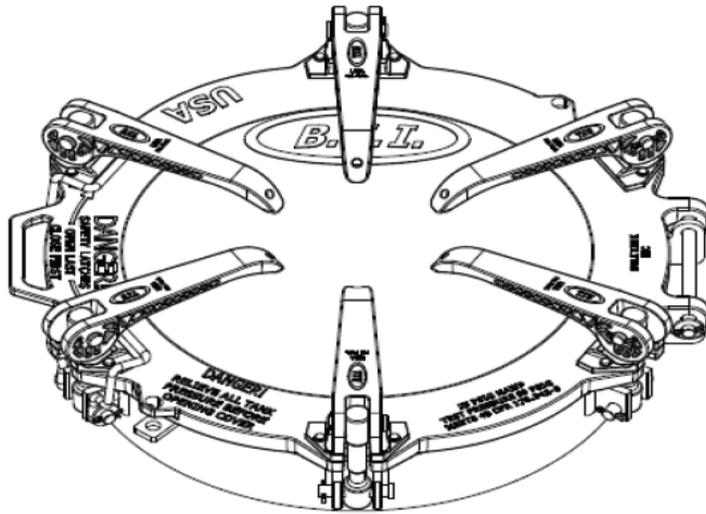


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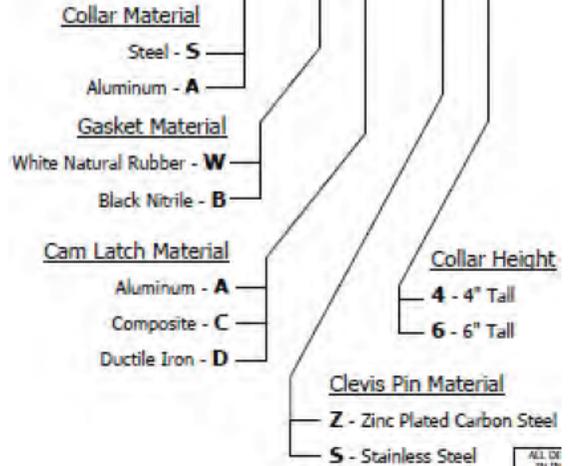


## BTI Manhole Assembly

Example Part Number BTM-20A-WC-S4



**BTM-20 X - X X - X X**



### BTI Manhole Replacement Parts

Part Number	Description
BTM-B-LID-ASMW	BTI Lid Assy W/Wear plates & White Gasket
BTM-B-LID-ASMB	BTI Lid Assy W/Wear plates & Black Gasket
BTM-H-LID-ASMW	Heil Lid Assy W/Wear plates & White Gasket
BTM-H-LID-ASMB	Heil Lid Assy W/Wear plates & Black Gasket
BTM-K-LID-ASMW	Knappco Lid Assy W/Wear plates & White Gasket
BTM-K-LID-ASMB	Knappco Lid Assy W/Wear plates & Black Gasket
BTM-GSKT-B-502	Black Natural Manhole Gasket
BTM-GSKT-W-502	White Natural Manhole Gasket

### Easy Adjust Manhole Cam Kit Assemblies

Part Number	Description
BTM-EA-BC-S	BTI/Heil Composite Cam SS Adjuster SS Clevis Pins
BTM-EA-BC-Z	BTI/Heil Composite Cam SS Adjuster Zinc Clevis Pins
BTM-EA-BA-S	BTI/Heil Aluminum Cam SS Adjuster SS Clevis Pins
BTM-EA-BA-Z	BTI/Heil Aluminum Cam SS Adjuster Zinc Clevis Pins
BTM-EA-KA-S	BTI (Knappco Replacement) Aluminum Cam SS Adjuster SS Clevis Pins
BTM-EA-KA-Z	BTI (Knappco Replacement) Aluminum Cam SS Adjuster Zinc Clevis Pins

### Easy Adjuster Only

Part Number	Description
BTM-EA-HS-1	BTI SS Adjuster only W/Clevis Pins Fits BTI, Heil, Fruehauf
BTM-EA-KS-1	BTI SS Adjuster only W/Clevis Pins Fits Old Knappco, Butler

### Safety Catch & Wear plate Kits

Part Number	Description
BTM-SAFCATCH-KS	Safety Catch Assembly SS Clevis Pin
BTM-SAFCATCH-KZ	Safety Catch Assembly Zinc Clevis Pin
BTM-WEARPLT-K	BTI Wear Plate W/SS Bolts & Nuts Fits BTI & Heil Lids
BTM-WPLT-BUSH	Wear Plate Bushing

So Light and Strong you'll wonder where it came from.

**B.T.I.**  
**Black**  
**maxx**  
Composite Fiber Butterfly Valves

The best just got better.

**GUARANTEED STRENGTH.** Composite Fiber is now used in the aerospace and auto industry for strength and weight reduction. We are so confident in the strength of our new BlackMaxx™ Composite Fiber bodied butterfly valve, we guarantee that the body, disc, stem and MaxxLife™ seat will out last and out perform any valve on the market today. No other butterfly valve manufacturer in the world can compete with it.

**LIGHTWEIGHT.** Combine our BlackMaxx™ Composite Fiber body with our AlloMaxx™ disc and you have the lightest butterfly valve ever made. Just 3.4 lbs on a 5 inch valve. Compare that to 7 to 8 lbs on the competition's valve- that's over 50% lighter.

**A FOOD GRADE ALTERNATIVE TO STAINLESS STEEL.** BlackMaxx™ is available with a Stainless Steel, Ductile, or AlloMaxx™ Ultra-Lightweight Disc. AlloMaxx™ by BTI is the perfect solution for food grade applications. It has all the durability and food safe properties of stainless steel at a fraction of the cost or weight.

**ECONOMICAL.** Now you don't have to choose foreign valves to hold cost down. BlackMaxx™ breaks the mold, it's quality at an inexpensive price, aka American Ingenuity!

**100% MADE IN AMERICA, WE PROMISE.**

All BTI products are guaranteed to:  
**LAST LONGER. WORK BETTER.**

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BLKMX 103112 100



Ductile Disc Stainless Steel



BlackMaxx™ shown with AlloMaxx™ Ultra-Lightweight Disc

Scan for more information



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## Bulk Tank Inc Parts List

### Part #

2B-795-501  
3B-795-501  
4B-795-501  
5B-795-501  
6B-795-501  
8B-795-501

### BlackMaxx

2" Black Maxx Body/AlloMaxx Disc/White MaxxLife Seat  
3" Black Maxx Body/AlloMaxx Disc/White MaxxLife Seat  
4" Black Maxx Body/AlloMaxx Disc/White MaxxLife Seat  
5" Black Maxx Body/AlloMaxx Disc/White MaxxLife Seat  
6" Black Maxx Body/AlloMaxx Disc/White MaxxLife Seat  
8" Black Maxx Body/AlloMaxx Disc/White MaxxLife Seat

2B-790-501  
3B-790-501  
4B-790-501  
5B-790-501  
6B-790-501  
8B-790-501

2" Black Maxx Body/ Stainless Disc/White MaxxLife Seat  
3" Black Maxx Body/ Stainless Disc/White MaxxLife Seat  
4" Black Maxx Body/ Stainless Disc/White MaxxLife Seat  
5" Black Maxx Body/ Stainless Disc/White MaxxLife Seat  
6" Black Maxx Body/ Stainless Disc/White MaxxLife Seat  
8" Black Maxx Body/ Stainless Disc/White MaxxLife Seat

2B-600-500  
3B-600-500  
4B-600-500  
5B-600-500  
6B-600-500  
8B-600-500

2" Black Maxx Body/ Ductile Disc/Black MaxxLife Seat  
3" Black Maxx Body/ Ductile Disc/Black MaxxLife Seat  
4" Black Maxx Body/ Ductile Disc/Black MaxxLife Seat  
5" Black Maxx Body/ Ductile Disc/Black MaxxLife Seat  
6" Black Maxx Body/ Ductile Disc/Black MaxxLife Seat  
8" Black Maxx Body/ Ductile Disc/Black MaxxLife Seat

### Part #

2B-795-531  
3B-795-531  
4B-795-531  
5B-795-531  
6B-795-531  
8B-795-531

### Composite Utility

2" Black Maxx Body/AlloMaxx Disc/White Buna N Seat  
3" Black Maxx Body/AlloMaxx Disc/White Buna N Seat  
4" Black Maxx Body/AlloMaxx Disc/White Buna N Seat  
5" Black Maxx Body/AlloMaxx Disc/White Buna N Seat  
6" Black Maxx Body/AlloMaxx Disc/White Buna N Seat  
8" Black Maxx Body/AlloMaxx Disc/White Buna N Seat

2B-790-531  
3B-790-531  
4B-790-531  
5B-790-531  
6B-790-531  
8B-790-531

2" Black Maxx Body/Stainless Disc/White Buna N Seat  
3" Black Maxx Body/Stainless Disc/White Buna N Seat  
4" Black Maxx Body/Stainless Disc/White Buna N Seat  
5" Black Maxx Body/Stainless Disc/White Buna N Seat  
6" Black Maxx Body/Stainless Disc/White Buna N Seat  
8" Black Maxx Body/Stainless Disc/White Buna N Seat

2B-600-530  
3B-600-530  
4B-600-530  
5B-600-530  
6B-600-530  
8B-600-530

2" Black Maxx Body/Ductile Disc/Black Buna N Seat  
3" Black Maxx Body/Ductile Disc/Black Buna N Seat  
4" Black Maxx Body/Ductile Disc/Black Buna N Seat  
5" Black Maxx Body/Ductile Disc/Black Buna N Seat  
6" Black Maxx Body/Ductile Disc/Black Buna N Seat  
8" Black Maxx Body/Ductile Disc/Black Buna N Seat

Other Disc and Seats available consult Factory

316 Stainless Discs (828) 3" – 6"

Black EPDM Seats (515) 2" – 6"

Black FKM (Viton) Seats (540) 2" – 6"

100% manufactured and assembled in the USA.

# MaxxLife

Transportation Butterfly Valves from 

The only valve manufactured exclusively for the transportation industry to withstand the rigors of the road. We guarantee it.



# Utility

by   
Butterfly Valves



An American made, ductile disc, utility valve. More valve at the same cost of an import valve.

Like our premium MaxxLife Butterfly valve, Utility by BTI offers: 35% more flow than standard ductile iron discs, a lubricated stem and o-ring seals for extended life, a lightweight aluminum body, and no hardware in the flow path to contaminate your load. And, ALL parts are 100% American Made. Utility features a black Buna-N seat and ductile iron disc. Utility by BTI, more valve at the same cost of an import valve.

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BulkTankInc.com



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## BULK TANK INC

### PARTS LIST

Part #	MaxxLife
2-795-501	2" Aluminum Body/AlloMaxx Disc/White MaxxLife Seat
3-795-501	3" Aluminum Body/ AlloMaxx Disc/White MaxxLife Seat
4-795-501	4" Aluminum Body/ AlloMaxx Disc/White MaxxLife Seat
5-795-501	5" Aluminum Body/ AlloMaxx Disc/White MaxxLife Seat
6-795-501	6" Aluminum Body/ AlloMaxx Disc/White MaxxLife Seat
8-795-501	8" Aluminum Body/ AlloMaxx Disc/White MaxxLife Seat

2-790-501	2" Aluminum Body/Stainless Disc/White MaxxLife Seat
3-790-501	3" Aluminum Body/Stainless Disc/White MaxxLife Seat
4-790-501	4" Aluminum Body/Stainless Disc/White MaxxLife Seat
5-790-501	5" Aluminum Body/Stainless Disc/White MaxxLife Seat
6-790-501	6" Aluminum Body/Stainless Disc/White MaxxLife Seat
8-790-501	8" Aluminum Body/Stainless Disc/White MaxxLife Seat
10-790-501	10" Aluminum Body/Stainless Disc/White MaxxLife Seat

2-600-500	2" Aluminum Body/Ductile Disc/Black MaxxLife Seat
3-600-500	3" Aluminum Body/Ductile Disc/ Black MaxxLife Seat
4-600-500	4" Aluminum Body/Ductile Disc/ Black MaxxLife Seat
5-600-500	5" Aluminum Body/Ductile Disc/ Black MaxxLife Seat
6-600-500	6" Aluminum Body/Ductile Disc/ Black MaxxLife Seat
8-600-500	8" Aluminum Body/Ductile Disc/ Black MaxxLife Seat
10-600-500	10" Aluminum Body/Ductile Disc/ Black MaxxLife Seat

#### Utility

2-795-531	2" Aluminum Body/Allo Maxx Disc/ White Buna N Seat
3-795-531	3" Aluminum Body/Allo Maxx Disc/ White Buna N Seat
4-795-531	4" Aluminum Body/Allo Maxx Disc/ White Buna N Seat
5-795-531	5" Aluminum Body/Allo Maxx Disc/ White Buna N Seat
6-795-531	6" Aluminum Body/Allo Maxx Disc/ White Buna N Seat
8-795-531	8" Aluminum Body/Allo Maxx Disc/ White Buna N Seat

2-790-531	2" Aluminum Body/Stainless Disc/ White Buna N Seat
3-790-531	3" Aluminum Body/Stainless Disc/ White Buna N Seat
4-790-531	4" Aluminum Body/Stainless Disc/ White Buna N Seat
5-790-531	5" Aluminum Body/Stainless Disc/ White Buna N Seat
6-790-531	6" Aluminum Body/Stainless Disc/ White Buna N Seat
8-790-531	8" Aluminum Body/Stainless Disc/ White Buna N Seat
10-790-531	10" Aluminum Body/Stainless Disc/ White Buna N Seat
12-790-531	12" Aluminum Body/Stainless Disc/ White Buna N Seat

2-600-530	2" Aluminum Body/Ductile Disc/Black Buna N Seat
3-600-530	3" Aluminum Body/Ductile Disc/ Black Buna N Seat
4-600-530	4" Aluminum Body/Ductile Disc/ Black Buna N Seat
5-600-530	5" Aluminum Body/Ductile Disc/ Black Buna N Seat
6-600-530	6" Aluminum Body/Ductile Disc/ Black Buna N Seat
8-600-530	8" Aluminum Body/Ductile Disc/ Black Buna N Seat
10-600-530	10" Aluminum Body/Ductile Disc/ Black Buna N Seat
12-600-530	12" Aluminum Body/Ductile Disc/ Black Buna N Seat

Other Discs and Seats available consult factory

316 Stainless Disc (828) 3" – 6"

Black EPDM Seats (515) 2" – 6"      Black FKM (Viton) Seats (540) 2" – 6"

# BLACKMAXX BUTTERFLY VALVE PARTS BREAKDOWN

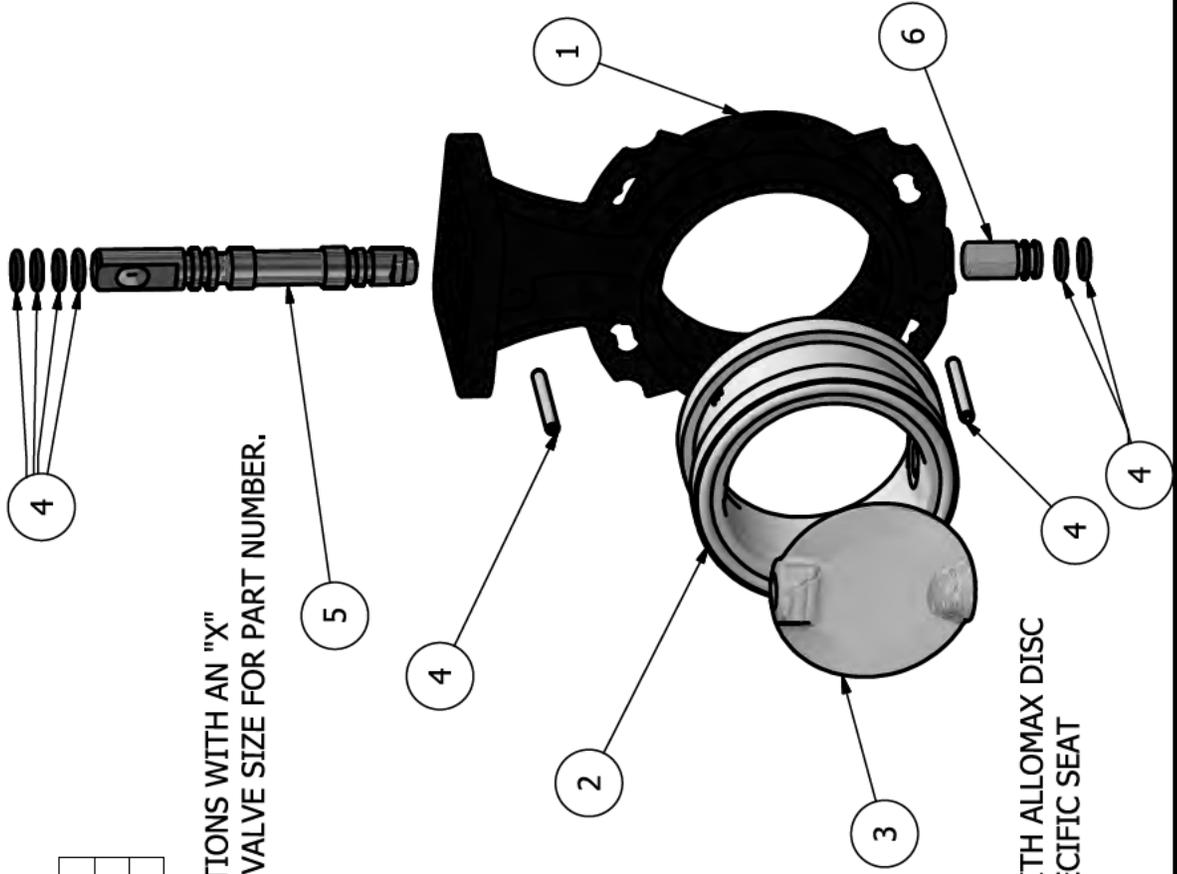
SEAT MATERIAL (2)*			
MAXXTMP BLACK	MAXXTMP WHITE	BLACK NITRILE	WHITE NITRILE
BTV-X-SEAT-500	BTV-X-SEAT-501	BTV-X-SEAT-530	BTV-X-SEAT-531
		BTV-X-SEAT-540	BTV-X-SEAT-515
		FKM	EPDM

DISC MATERIAL (3)*		
DUCTILE IRON	304 STAINLESS	316 STAINLESS
BTV-X-DISC-D	BTV-X-DISC-SS	BTV-X-DISC-316
		BTV-X-DISC-A

\*FOR DESIGNATIONS WITH AN "X"  
REPLACE WITH VALVE SIZE FOR PART NUMBER.

O-RING, ROLLPIN & PLUG KITS (4)	
SIZE	KIT
2"	BTV-2C-RK
3"	BTV-3C-RK
4"	BTV-456C-RK
5"	BTV-456C-RK
6"	BTV-456C-RK
8"	BTV-8C-RK

TOP AND BOTTOM STEMS		
SIZE	ITEM (5)	ITEM (6)
2"	BTV-2-STEM-SS	BTV-3-STEM-BC
3"	BTV-3-STEM-SS	BTV-3-STEM-BC
4"	BTV-4-STEM-SS	BTV-4-6-STEM-C
5"	BTV-5-6-STEM-SS	BTV-4-6-STEM-C
6"	BTV-5-6-STEM-SS	BTV-4-6-STEM-C
8"	BTV-8-STEM-SS	BTV-8-STEM-B-RC



- NOTES:
- 10" & 12" VALVE NOT AVAILABLE WITH ALLOMAX DISC
  - PLEASE CONSULT FACTORY FOR SPECIFIC SEAT MATERIALS AND AVAILABILITY



400 PARKWAY DRIVE  
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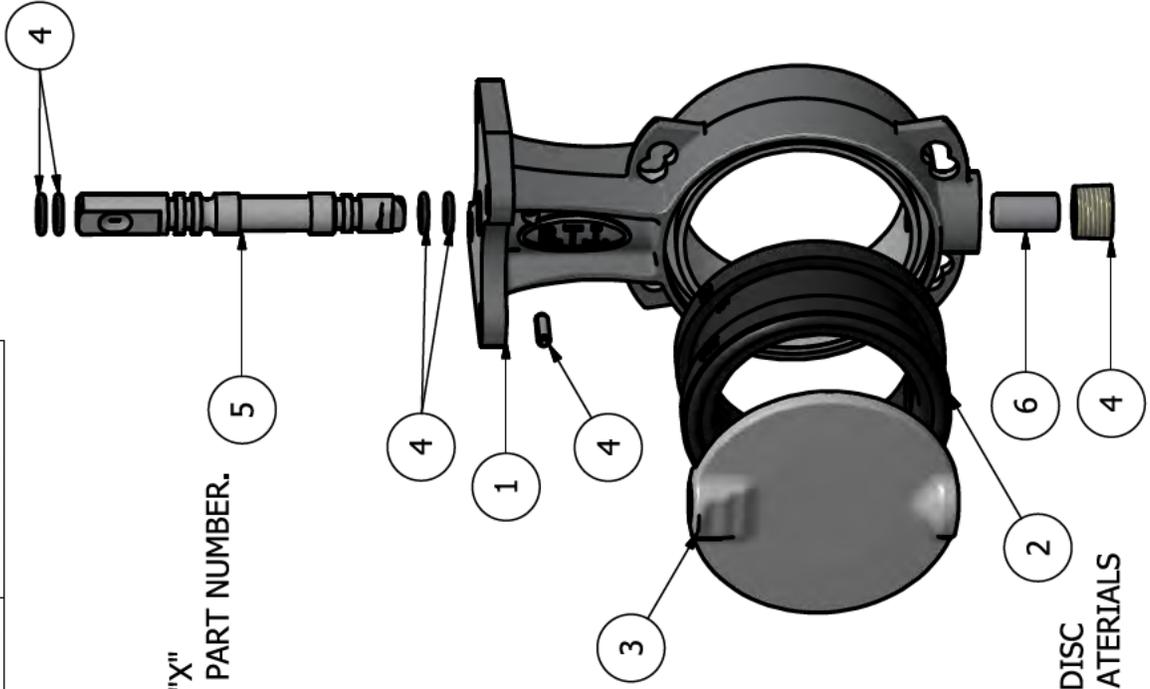
# ALUMINUM BUTTERFLY VALVE PARTS BREAKDOWN

SEAT MATERIAL (2)*			
MAXXTEMP BLACK	MAXXTEMP WHITE	BLACK NITRILE	WHITE NITRILE
BTV-X-SEAT-500	BTV-X-SEAT-501	BTV-X-SEAT-530	BTV-X-SEAT-531
			BTV-X-SEAT-540

DISC MATERIAL (3)*		
DUCTILE IRON	304 STAINLESS	316 STAINLESS
BTV-X-DISC-D	BTV-X-DISC-SS	BTV-X-DISC-316
		BTV-X-DISC-A

O-RING, ROLLPIN & PLUG KITS (4)	
SIZE	KIT
2"	BTV-2A-RK
3"	BTV-3A-RK
4"	BTV-4A-RK
5"	BTV-56A-RK
6"	BTV-56A-RK
8"	BTV-8A-RK
10"	BTV-10A-RK
12"	BTV-12A-RK

\*FOR DESIGNATIONS WITH AN "X"  
REPLACE WITH VALVE SIZE FOR PART NUMBER.



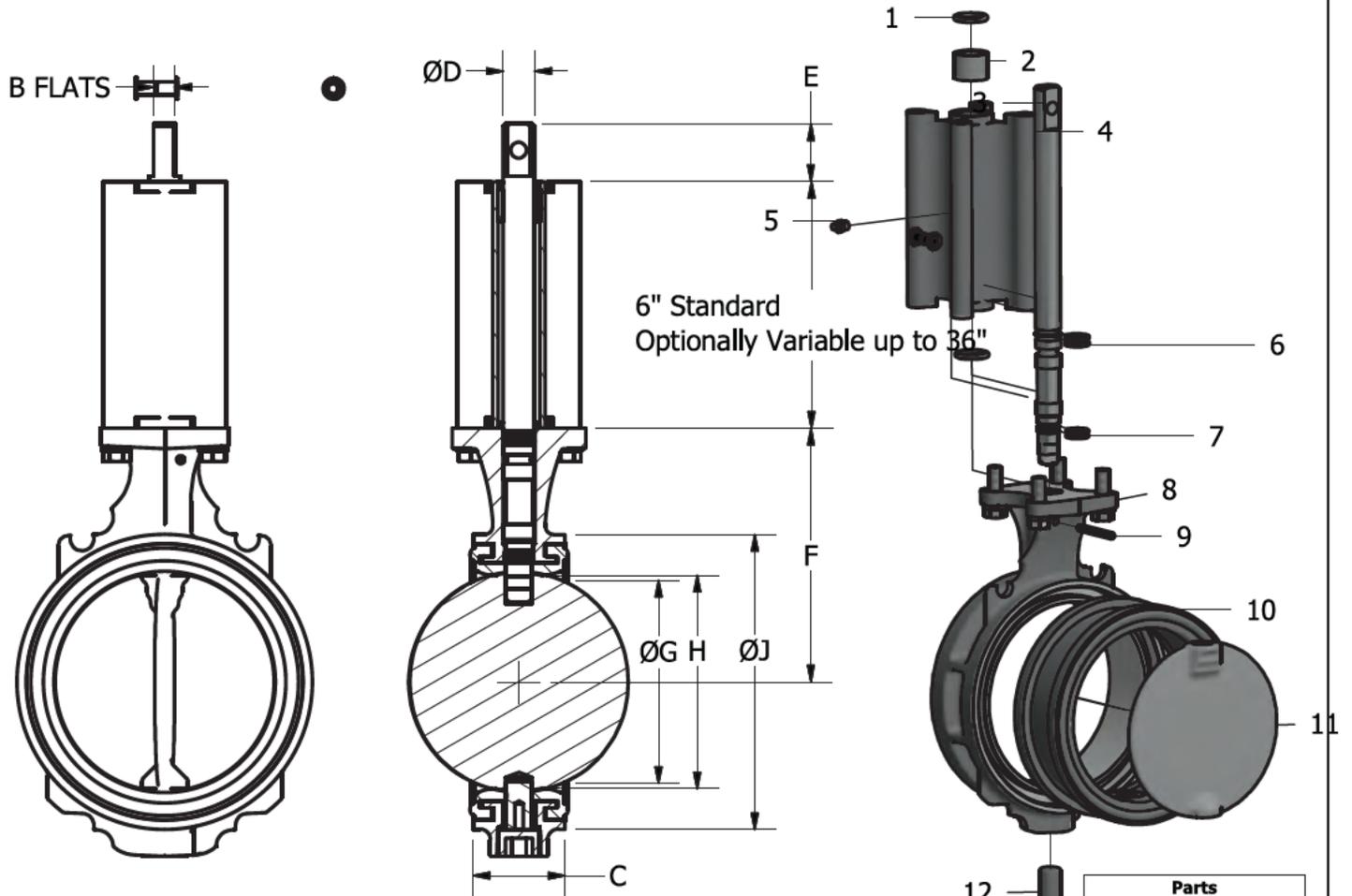
TOP AND BOTTOM STEMS		
SIZE	ITEM (5)	ITEM (6)
2"	BTV-2-STEM-SS	BTV-3-STEM-BC
3"	BTV-3-STEM-SS	BTV-3-STEM-B
4"	BTV-4-STEM-SS	BTV-4-5-6-STEM
5"	BTV-5-6-STEM-SS	BTV-4-5-6-STEM
6"	BTV-5-6-STEM-SS	BTV-4-5-6-STEM
8"	BTV-8-STEM-SS	BTV-8-STEM-B
10"	BTV-10-STEM-SS	BTV-10-STEM-B
12"	BTV-12-STEM-KSS	BTV-12-STEM-B

**NOTES:**

1. 10" & 12" VALVE NOT AVAILABLE WITH ALLOMAX DISC
2. PLEASE CONSULT FACTORY FOR SPECIFIC SEAT MATERIALS AND AVAILABILITY



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Weight in Pounds								
Column 1	2"	3"	4"	5"	6"	8"	10"	12"
Al 600 or 790	1.9	2.4	4.2	5.5	7.0	15.0	21.5	32.2
Al body 795	1.7	2.2	3.6	4.5	5.3	NA	NA	NA
Blk Maxx 600 or 790	NA	2.0	3.4	3.6	5.7	NA	NA	NA
Black Maxx 795	NA	1.8	2.8	2.6	4	NA	NA	NA

Top Plate Drilling								
Column 1	2"	3"	4"	5"	6"	8"	10"	12"
No. Holes	4	4	4	4	4	4	4	4
Bolt Circle	3,250	3,250	3,250	3,250	3,250	5,000	5,000	5,000
Hole Dia.	.438	.438	.438	.438	.438	.562	.562	.562

Wafer Bolt Circle Data				
SIZE	Pattern	Bolt Circle	# Holes	Hole Ø
2"	TTMA	3.750 in	6	.438 in
	TTMA	4.250 in	4	.438 in
3"	ANSI	4.750 in	4	.688 in
	TTMA	4.875 in	6	.438 in
4"	ANSI	6.000 in	4	.688 in
	TTMA	5.875 in	8	.438 in
5"	TTMA	7.000 in	6	.562 in
	ANSI	7.500 in	8	.688 in
6"	TTMA	8.500 in	8	.812 in
	ANSI	9.000 in	8	.562 in
8"	TTMA	11.625 in	8	.688 in
	ANSI	11.750 in	8	.812 in
10"	TTMA	13.750 in	8	.688 in
	ANSI	14.250 in	12	.937 in
12"	ANSI	17.000 in	12	1.000 in

VALVE SIZE								
DIM	2"	3"	4"	5"	6"	8"	10"	12"
A	3.180 in	4.910 in	4.910 in	4.910 in				
B	.438 in	.438 in	.500 in	.500 in	.500 in	.625 in	.625 in	Keyed
C	1.650 in	1.750 in	2.000 in	2.140 in	2.140 in	2.500 in	2.560 in	3.000 in
D	.625 in	.625 in	.750 in	.750 in	.750 in	.875 in	.875 in	1.125 in
E	1.250 in	1.250 in	1.250 in					
F	3.938 in	4.875 in	6.000 in	6.000 in	6.500 in	8.313 in	9.000 in	10.625 in
G	1.688 in	2.875 in	3.875 in	5.000 in	6.000 in	8.000 in	10.063 in	12.090 in
H	2.125 in	3.125 in	4.125 in	5.188 in	6.125 in	8.125 in	10.125 in	12.140 in
J	4.060 in	4.390 in	5.710 in	7.030 in	8.150 in	10.380 in	12.470 in	14.630 in

GENERAL NOTES:  
 C = INSTALLED WIDTH  
 G = MINIMUM ALLOWABLE INSIDE DIA. OF PIPE OR MATING FLANGE  
 BODIES HAVE AS STANDARD ALL T.T.M.A. AND A.N.S.I. DRILL PATTERNS

Parts	
ITEM	Description
1	Extension O-ring
2	Composite Bushing
3	Top Stem
4	Neck Extension
5	Grease Fitting
6	Top O-ring
7	Bottom O-ring
8	Body
9	Retaining Pin
10	Seat
11	Disc
12	Bottom Stem
13	Bottom Bushing
14	Bottom Stem Plug

# BTI Butterfly Valves

# BTI Available Seat Materials



DESC. OF TYPES	TYPES OF SEATS									
	Buna-N	EPDM	FKM	Hypalon	Natural Rubber	Chlorobutyl	Teflon/EPDM	Teflon/Buna-N	MaxxLife	FVMQ
BTI COMPOUND NUMBER	530 531	515	540	504	516 517	525	650	652	500 501	580
COMMON NAMES	NBR, Nitrile	EPT EPR	Fluro-Elastomer	None	Gum/Natural	None	PTFE (see EPDM)	PTFE (see Buna-N)	None	Flurosilicone
COLOR	Black White	Black	Black	Black	Red White	Black	Black/White PTFE Bonded to EPDM	Black/White PTFE Bonded to Buna-N	Black White	Blue
CHEMICAL TYPE	Nitrile Butadiene	Ethylene-Propylene-Diene-Monomer	Fluorinated Hydrocarbon	Chloro-Sulfonated Polyethylene	Polyisoprene	Chloroisobutylene Isoprene	Poly-Tetra-Fluoro-Ethylene	Poly-Tetra-Fluoro-Ethylene	Polysiloxane	Flurosilicone
TEMP RATING	-20°F to +230°F	-40°F to +250°F	+10°F to +350°F	-40°F to +250°F	-40°F to +160°F	-40°F to +250°F	-20°F to +300°F	0°F to +250°F	-50°F to +450°F	-50°F to +450°F
GENERALLY SUITABLE FOR	General Applications & Hydrocarbon Service, less than 40% Aromatics Food & Beverage Applications. Suitable for Abrasive Service.	Less than 10% Acids Inorganic and Organic Alcohols, Alkaline Salts and Solutions, Dry Bulk, Water. Not Suitable for Hydrocarbons.	All Aromatic, Aliphatic & Halogenated Hydrocarbons. Not for Ketones, Esters or in combination with Hot Water and Oil.	Strong Acids & Bases, Freons, Hydroxides, Ozones, Alcohol, Etching & Alkaline. Not for Ketones, Esters & certain Chlorinated Oxidizing Acids.	Abrasive Dry Services Not for Hydrocarbon Service, Good for Water & Air.	Aqueous Food Applications Alcohols Alkaline Salts Water. Not For Vegetable, Animal Oils or Animal Fat, Hydrocarbons, Solvents & Aromatics.	For Highly Oxidizing Acids (Nitric, Sulfuric) & Alkalis. Not for Abrasive Service, or Hydrocarbon Service.	For Acids, Hydrocarbons Containing Less Than 40% Aromatics. Not for Abrasive Service.	Used primarily on High Temp. Applications. Usually hot air and Dry Bulk Pneumatic Conveying. Suitable for Food and Beverage. Not Suitable for Petroleum Oil nor Hydrocarbon.	Combines most of the attributes of silicone with resistance to Petroleum Oils and Hydrocarbon fuels. Excellent Extreme Temperature Properties and Compression Set Resistance.

**NOTES:**

1. Compound number is imprinted on O.D.
2. Other special compounds available on request.

BTI Seat Chart is to be used only as a guide in selecting the most satisfactory combination of elastomers for resistance to various chemical solutions. It must be stressed that this information is offered only as a guide, and because of variables in actual use conditions, the accuracy of the ratings cannot be guaranteed. Actual service life can be determined only by the user evaluating the elastomers in actual service conditions. This chart should be used as a GENERAL GUIDE for a particular group of compounds. It does not mean that the seat rating necessarily applies to every possible compound that could be classified in the group.



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**Lighter.  
Stronger.  
Affordable.**

# BlackMAXX Composite HD Handle

THE ONLY American Made Handle for the Pneumatic Tank Industry

At BTI, we've got a handle on your next Handle.

- The standard BlackMAXX Composite HD Handle is 43% lighter than an industry standard stamped steel handle
- The BlackMAXX handle is 25% lighter than an aluminum HD Handle
- Fastener free handle retention – interlocking throttle plate
- Corrosion resistant
- Static Shock resistant
- Priced at or below imports
- **Lifetime Warranty**



Fits all standard butterfly valves and is available in two sizes for your specific application.

## Tougher. Stronger.

BTI's newest version of Heavy Duty Handles now featuring composite triggers and cathodic epoxy coating, to reduce corrosion build-up for smooth operation. In addition, BTI has added a new Heavy Duty Straight HD handle version for 2", 3" and 4" airline valves for pneumatic tank trailers with tight locations. This handle is available with the cathodic epoxy coating, to create a virtually corrosive-free environment.

Driver friendly, competitively priced and longer lasting—BTI once again raises the bar on an industry standard and finds a valuable solution to an industry nuisance with the HD Handle.

- A** Lengthened handle and ergonomically curved design provides comfortable grip and additional clearance for increased leverage
- B** Rounded, stainless steel lever tip decreases wear to the lever
- C** New corrosion-resistant composite trigger for smooth operation

Proven to withstand abnormal wear and competitively priced, it's the perfect companion to B.T.I.'s Bottom Drop Hopper Tee.



### BlackMaxx Throttling Plate

Eliminates corrosion between stem and plate while reducing overall weight.

- Available in bolt-on or snap-on models.
- Offered in a 10-position and 5-position model

## HD™ Valve Handle.

CURVED HD HANDLE  
FOR PRODUCT LINES



STRAIGHT HD HANDLE  
FOR SMALLER AIRLINES



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As with all of our products, Bulk Tank, Inc. unconditionally guarantees this handle will outperform any similar products on the market today.



## BULK TANK INC

### Parts List

#### Blackmaxx Straight Composite Heavy Duty Handles with Integrated Plate

BM600-46-10	Short Handle Assy – 10 position	5/8" Stem Fits 2" & 3" Valves
BM600-46-5	Short Handle Assy – 5 position	5/8" Stem Fits 2" & 3" Valves
BM600-6-10	Short Handle Assy – 10 position	3/4" Stem Fits 4" to 6" Valves
BM600-6-5	Short Handle Assy – 5 position	3/4" Stem Fits 4" to 6" Valves

#### Blackmaxx Offset Composite Heavy Duty Handles with Integrated Plate

BM700-46-10	Long Handle Assy – 10 position	5/8" Stem Fits 2" & 3" Valves
BM700-46-5	Long Handle Assy – 5 position	5/8" Stem Fits 2" & 3" Valves
BM700-6-10	Long Handle Assy – 10 position	3/4" Stem Fits 4" to 6" Valves
BM700-6-5	Long Handle Assy – 5 position	3/4" Stem Fits 4" to 6" Valves

#### HD E-Coated Aluminum Straight Handle with Composite Handle Plate

HD600-207-4610N	Short Handle Assy – 10 position	5/8" Stem Fits 2" & 3" Valves
HD600-207-46-5N	Short Handle Assy – 5 position	5/8" Stem Fits 2" & 3" Valves
HD600-207-6-10N	Short Handle Assy – 10 position	3/4" Stem Fits 4" to 6" Valves
HD600-207-6-5N	Short Handle Assy – 5 position	3/4" Stem Fits 4" to 6" Valves

#### HD E-Coated Aluminum Straight Handle with Stainless Handle Plate Kit

HD600-207-46-10	Short Handle Assy – 10 position	5/8" Stem Fits 2" & 3" Valves
HD600-207-6-10	Short Handle Assy – 10 position	3/4" Stem Fits 4" to 6" Valves

#### HD E-Coated Aluminum Ergonomic Offset Handle with Composite Handle Plate

HD700-207-4610N	Long Handle Assy – 10 position	5/8" Stem Fits 2" & 3" Valves
HD700-207-46-5N	Long Handle Assy – 5 position	5/8" Stem Fits 2" & 3" Valves
HD700-207-6-10N	Long Handle Assy – 10 position	3/4" Stem Fits 4" to 6" Valves
HD700-207-6-5N	Long Handle Assy – 5 position	3/4" Stem Fits 4" to 6" Valves

#### HD E-Coated Aluminum Ergonomic Offset Handle with Stainless Handle Plate Kit

HD700-207-46-10	Long Handle Assy – 10 position	5/8" Stem Fits 2" & 3" Valves
HD700-207-6-10	Long Handle Assy – 10 position	3/4" Stem Fits 4" to 6" Valves

#### Powder Coated Ductile Iron Handle with Zinc Coated Handle Plate Kit

BTV-HANDLE-8	Long Handle W/O Plate Kit	7/8" Stem Fits 8" & 10" Valves
BTV-HANDLE-8K	Long Handle Assy – 10 position	7/8" Stem Fits 8" & 10" Valves
BTV-HANDLE-12	Long Handle W/O Plate Kit	1 1/8" Round Keyed Stem Fits 12" Valves
BTV-HANDLE-12K	Long Handle Assy – 10 position	1 1/8" Round Keyed Stem Fits 12" Valves

#### Stamped Steel Handles

400-250-46-10	Straight Stamped – 10 Position	5/8" Stem Fits 2" & 3" Valves
400-250-610	Straight Stamped – 10 Position	3/4" Stem Fits 4" to 6" Valves

#### Throttle Plates

SS-250-HP-KIT	2"-6" SS Plate Kit – 10 Position
HDL-HP-10C	2"- 6" Composite Snap on – 10 Position
HDL-HP-10C-BO	2"- 6" Composite Bolt on – 10 Position
HDL-HP-5C	2"- 6" Composite Snap on – 5 Position
HDL-HP-5C-BO	2"- 6" Composite Bolt on – 5 Position

# BTI'S BUTTERFLY VALVE STEM EXTENSION VS. THE COMPETITION

## STRONGER

BTI's stem extension yielded 450 ft. lbs. vs 250 ft. lbs.

## DIRECT DRIVE REQUIRING NO COUPLERS

BTI's direct drive provides greater strength and virtually eliminates slop. The competition's solution causes excessive slop, built-in fatigue and stress points. BTI uses no stem adapter resulting in a reliable, stable and strong extension.

## LIGHTWEIGHT

Up to 15% reduction in weight!

## EXTENSION HOUSING

BTI's fully supported shaft provides added strength over the competition's model. Our enclosed design, with o-ring seals top and bottom, eliminates contamination while the competitor's model is open to the elements, leading to accelerated corrosion and seizing of valve.

**80% Stronger**

**No Coupling Required  
Patented Direct Drive One-Piece Stem**

**Lightweight Design**

**Fully Supported Shaft**

**Built-in Grease Fitting**

**Better Corrosion Protection**

## LUBRICATION POINT

BTI's built-in grease fitting adds reliability and virtually eliminates valve seizures, increasing your valves life!

	BTI EXTENSION	COMPETITOR
80% Stronger	✓	✗
No Coupling Required Patented Direct Drive One-Piece Stem	✓	✗
Lightweight Design	✓	✗
Fully Supported Shaft	✓	✗
Built-in Grease Fitting	✓	✗
Better Corrosion Protection	✓	✗



## EasyAccess™ Multi-Angle Butterfly Valve Neck Extension

BTI's new EasyAccess™ Multi-Angle Neck Extension allows for effortless operation of all BTI Butterfly Valves. No more crawling under tank trailers in messy situations. No more back injuries and workman compensation claims due to awkward angles and burns from air supply lines that can reach 350°F.

Because of the unique design of the EasyAccess™, this multi-angle extension can be made to fit any situation. The stem can be angled from 0° to 45° and maintain effortless opening and closing of the valve.

(a) The EasyAccess™ Multi-Angle Neck Extension consists of a universal joint securely fastened to the stem of the butterfly valve.

(b) A rubber boot over the u-joint seals contamination out of the joint and retains lubrication. The other half of the u-joint is securely fastened to the top stem. The unit is supported at the top with a short section of BTI's neck extension extrusion. (c) Two bushings support the shaft in the extrusion, and (d) two o-rings seal the extrusion from contamination and provide a (e) lubrication chamber, with grease fitting, for easy maintenance and years of trouble-free operation.



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**BULK TANK Inc.  
Parts List**

**Valve Stem Extensions with Extruded Aluminum Housing and Offset HD Handle**

- All BTI valves are available with factory installed extensions.
- Add EXT and the length of extension behind the valve part number. Example (6B-795-501-EXT14)
- Standard lengths 6,10,12,14,18,24,36 inches. Custom lengths available.
- Stem extension are available separately as replacements or to add to existing BTI valves.

**Composite Valves**

BT-2C-XX-SEKIT  
 BT-3C-XX-SEKIT  
 BT-4C-XX-SEKIT  
 BT-56C-XX-SEKIT  
 BT-8C-XX-SEKIT

**Aluminum Valves**

BT-2A-XX-SEKIT  
 BT-3A-XX-SEKIT  
 BT-4A-XX-SEKIT  
 BT-56A-XX-SEKIT  
 BT-8A-XX-SEKIT

**EasyAccess Multi-Angle Butterfly Valve Extensions with Offset HD Aluminum Handle**

- All BTI valves are available with factory installed Multi-Angle Extensions.
- Add MA and the length of extension behind the valve part number. Example (6B-795-501-MA42)
- Standard lengths 8,10,12,14,36,42,48 inches, Custom lengths available.
- Butterfly valves used with Multi-Angle extensions have round keyed stems.
- To order replacement valves for Multi-Angle assemblies use MA behind valve part number (6B-795-501-MA)

**Multi-Angle replacement U-joint and Boots**

<b>Part #</b>	<b>Description</b>
1.125UJBOOT	Boot 2 & 3 inch Valves
1.125UJ	U-joint 2 & 3 inch Valves
1.5UJBOOT	Boot 4 to 6 inch Valves
1.5UJ	U-joint 4 to 6 inch Valves
1.75UJBOOT	Boot 8 & 10 inch Valves
1.75UJ	U-joint 8 & 10 inch Valves
2.00UJBOOT	Boot 12 inch Valves
2.00UJ	U-joint 12 inch Valves

# **B.T.I.** **Easytork**

ROTARY PNEUMATIC ACTUATORS

## Lightweight • Small • Corrosion Resistant

BTI's new Easytork Rotary Pneumatic Actuator provides superior performance and critical weight-savings compared to standard rack & pinion actuators.

### Along with extended life and less weight, the Easytork provides these superior benefits:

- Quieter Operation
- No negative effects due to moisture, the Easytork will operate even when full of water
- Small Foot Print - makes normal valve and tee maintenance easier
- Less Air Consumption - cost savings over the life of the valve due to less air needed over conventional single acting and double acting rack & pinion actuators
- Unique design allows fail safe operation, without internal springs, via internal compression chamber
- 2 Year Full Warranty
- One Internal Moving Part and no Corrosion Prone Spring



### How Lightweight?

Over 43% lighter than a comparable rack & pinion actuator.

Our Easytork BVA 514 weighs in at just 6 Lbs compared to 10.45 Lbs for equivalent torque output rack & pinion actuator.

### Corrosion issues with a Spring Return Rack & Pinion Actuator



Corrosion results in spring fatigue



Corrosion results in broken spring



Vacuumed environment damages actuator soft sealing



Better Through Innovation

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**Always Consult Factory To Assure The Correct Actuator For Your Application**

## Easytork Pneumatic Actuators

### Pneumatic Failsafe (single Acting)

BVA-411-PFS	2" & 3" BTI Valves
BVA-514-PFS	3", 4" & 5" BTI Valves
BVA-717-PFS	5", 6" & 8" BTI Valves
BVA-1022-PFS	8", 10" & 12" BTI Valves

### Pneumatic Double Acting

BVA-411-PDA	2" & 3" BTI Valves
BVA-514-PDA	4", 5" & 6" BTI Valves
BVA-717-PDA	8" & 10" BTI Valves
BVA-1022-PDA	12" BTI Valves

### Electric Failsafe (single Acting)

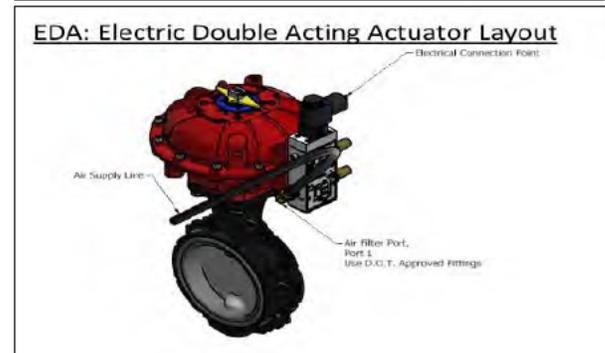
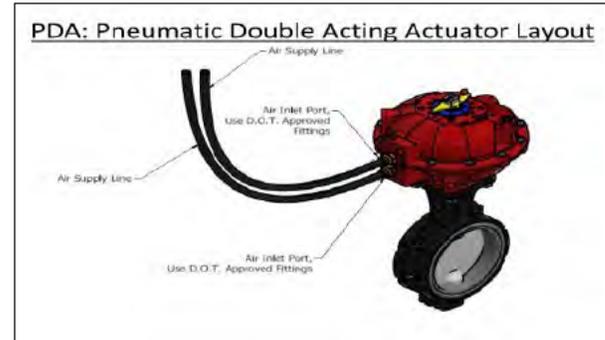
BVA-411-EFS	2" & 3" BTI Valves
BVA-514-EFS	3", 4" & 5" BTI Valves
BVA-717-EFS	5", 6" & 8" BTI Valves
BVA-1022-EFS	8", 10" & 12" BTI Valves

### Electric Double Acting

BVA-411-EDA	2" & 3" BTI Valves
BVA-514-EDA	4", 5" & 6" BTI Valves
BVA-717-EDA	8" & 10" BTI Valves
BVA-1022-EDA	12" BTI Valves

### Accessories

BVA-PV	Pilot Valve PFS
BVA-12VDC-SOL	Pilot Valve 12V EFS
BVA-24VDC-SOL	Pilot Valve 24V EFS
F28	Exhaust Filter





# Ultra-Lightweight Aeration Butterfly Valve

Connects directly to airline and weighs a fraction of conventional aeration valves

Meet the latest addition to our expanding line of innovative products for the pneumatic tank trailer industry. Our new American made aeration butterfly valve offers the same flow characteristics as conventional ball valves and weighs only 1.5 lbs, that's 3lbs lighter than a conventional brass ball valve. It's also half the weight and less than half the cost of our closest aeration butterfly valve competitor!

Previously aeration valves were threaded on both ends requiring two additional king nipples to install in the aeration hose; this increased labor, weight and cost. The new valve comes standard with a king nipple to female connection or an optional king nipple to king nipple connection. And, for those wanting to save weight but use the female to female connection we offer that also.

Our new aluminum Ultra-Lightweight Aeration Valve is corrosion resistant, FDA compliant, competitively priced, easy to operate, and offers the same flow characteristics as a full port brass ball valve. And, like everything we manufacture, it's 100% American made.

American Made, Ultra-Light Weight, and Competitively Priced – a BTI trademark.



King Nipple to Female

Female to Female

King Nipple to King Nipple

Scan this QR code to learn more



All BTI products are guaranteed to:  
**LAST LONGER. WORK BETTER.**

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When you buy American Made Products you make jobs possible for all of US.



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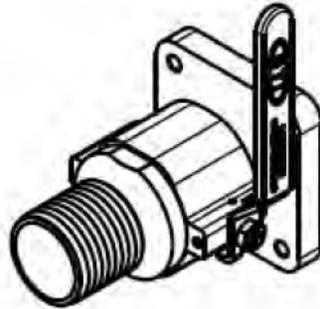


## Aeration Valve

Part #	2" Aeration Butterfly Valves
BTV-2AV-FTFT	Female Thread X Female Thread Valve Assembly
BTV-2AV-FTHB	Female Thread X Hose Barb Valve Assembly
BTV-2AV-HBHB	Hose Barb X Hose Barb Valve Assembly
BTV-2AV-FLGHB	4 Bolt Flange X Hose Barb Valve Assembly
BTV-2AV-2FLSQ	2" 4 Bolt Female Threaded Flange
BTV-2AV-GSKT	2" 4 Bolt Flange Gasket
BTV-2AV-HANDLE	Aeration Valve Handle



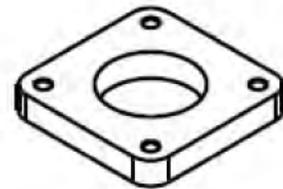
BTV-2AV-FTFT



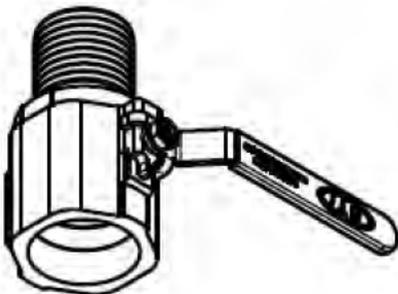
BTV-2AV-FLGHB



BTV-2AV-HANDLE



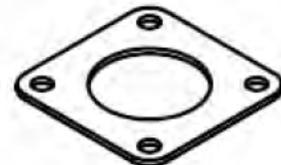
BTV-2AV-2FLSQ



BTV-2AV-FTHB



BTV-2AV-HBHB



BTV-2AV-GSKT

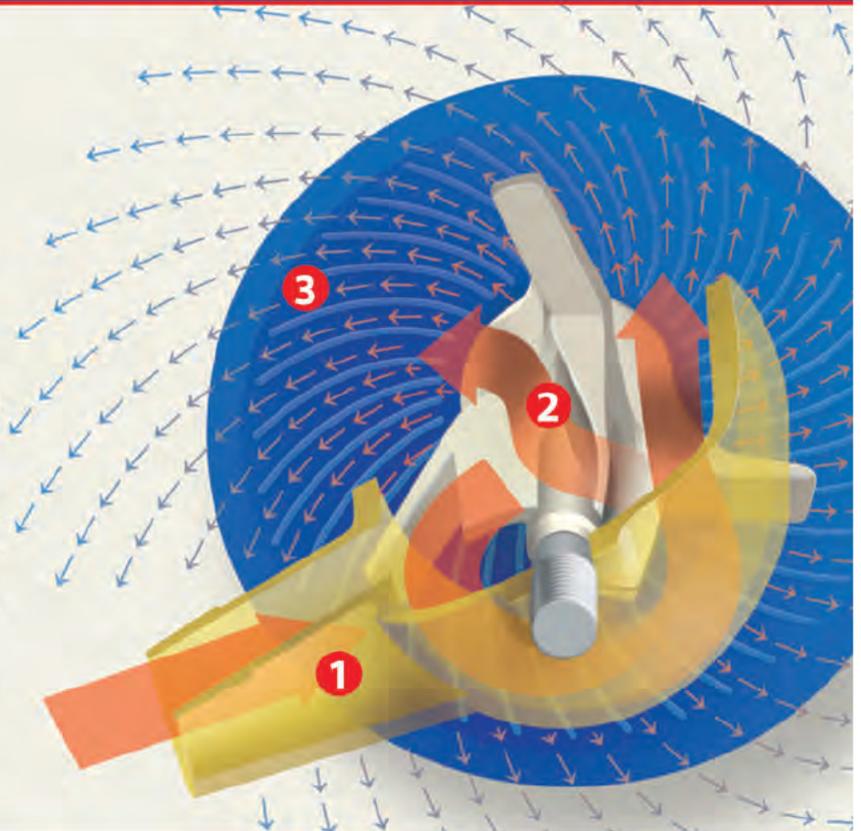
# Time equals money.

We make sure you don't waste either.

Announcing a new spin  
on an old concept...

**SpinFlow™**  
AERATION SYSTEM

The faster you can unload your hopper, the more money you save on labor and fuel costs, and the more loads you can haul in a limited amount of time. Bulk Tank's innovative designed components increases the pressure, velocity, and energy during aeration allowing for faster unloading. That's why Bulk Tank's new SpinFlow aerators reduces unloading times up to 20%. Frustrating and time consuming problems such as back flushing and rat holing of difficult material are no match for SpinFlow's helical symmetrical design of the aerator stem. Engineered for a positive shut-off on the hopper wall, back flush is effectively prevented, every time. The aerator rubber is designed to eliminate contamination, last longer, and will not prematurely fail due to cracking and splitting. No need to waste money on replacement parts. Faster, stronger, and more economical, the SpinFlow aerator is putting a new spin on an old stand-by.



## How it works . . .

**1 Port Housing** - As the air from your blower enters the Port Housing it starts the spinning process. The intake port is off center which facilitates a counter clockwise air spin.

**2 Aerator Stem** - As the air travels across the helical fins, it further directs the air flow in a counter clockwise spin. As it enters the tank hopper, the air flow picks up pressure, velocity and energy as it channels into the aerator rubber.

**3 Aerator Rubber** - Once the air flows across the fins on the back side of the aerator rubber it exits between the aerator rubber and the wall of the hopper in a counter clockwise sweeping action, as never before seen in pneumatic conveying.



400 Parkway Drive • Park Hills, MO 63601  
573-518-0600 • Fax: 573-518-0551

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The SpinFlow  
aerator  
sweeps your  
hopper clean



SFA508 021513 100



## BULK TANK INC

### PARTS LIST

### SPIN FLOW AERATOR

<u>Part #</u>	<u>Part Description</u>
A200	Inside Aerator Assembly with Wearplate
A201	1-Port Complete Assembly Natural with Wearplate
A201C	1-Port Complete Assembly Clear with Wearplate
A202	2-Port Complete Assembly Natural with Wearplate
A202C	2-Port Complete Assembly Clear with Wearplate
A203	3-Port Complete Assembly Natural with Wearplate
A203C	3-Port Complete Assembly Clear with Wearplate
A204	Rubber – Blue
AW204	Rubber - White
A205	Stem
A207	Wearplate
A208	Port Housing Gasket
AW208	Port Housing Gasket - White
A210	Tee Handle
A211	1-Port Natural Housing
A211C	1-Port Clear Housing
A212-M	2-Port Natural Housing
A212C-M	2-Port Clear Housing
A213	3-Port Natural Housing
A213C	3-Port Clear Housing
A215	Tee Handle Gasket
A221	1 Port Complete Assembly Natural
A221C	1-Port Complete Assembly Clear
AW221C	1-Port Complete Assembly Clear – White Rubber
A222	2-Port Complete Assembly Natural
A222C	2-Port Complete Assembly Clear
AW222C	2-Port Complete Assembly Clear, White Rubber
A223	3-Port Complete Assembly Natural
A223C	3-Port Complete Assembly Clear
AW223C	3-Port Complete Assembly Clear – White Rubber
A299	Inside Aerator Assembly
AW299	Inside Aerator Assembly – White Rubber
AW221C-AW223C	Clear 1 & 3 Port White Aeration Hopper Kit
A221-A223-KIT	Natural 1 & 3 Port Aeration Hopper Kit
A201-A203-KIT	Natural 1 & 3 Port Aeration Hopper Kit with Wearplate
A221C-A223C-KIT	Clear 1 & 3 Port Aeration Kit
A201C-A203C-KIT	Clear 1 & 3 Port Aeration Kit with Wearplate
A2200C	20" Carbon Steel Aerator Plate – 16" ID (Includes 3 Rubbers)
A2200S	20" Stainless Steel Aerator Plate – 16" ID (Includes 3 Rubbers)
A322	20" Aerator Plate Gasket – 2 per plate
NA900AW	Aluminum Hopper Plug with White Gasket

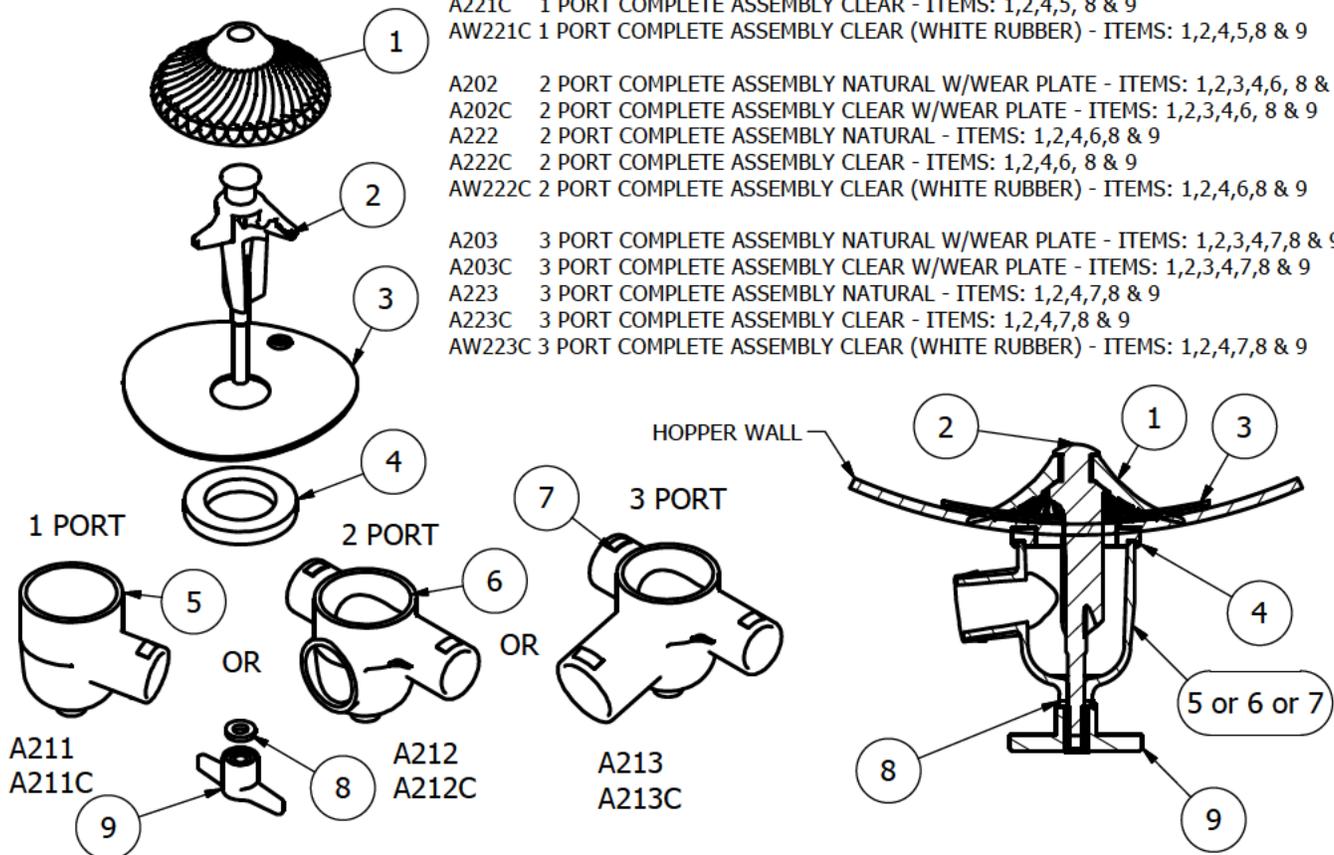
# BULK TANK INC. SPIN FLOW AERATOR LIST

# CONTACT FACTORY FOR PRICING

ITEM NO.	PART NO.	DESCRIPTION
1	A204	AERATOR RUBBER, BLUE SILICONE - FOOD GRADE
1	AW204	AERATOR RUBBER, WHITE SILICONE - FOOD GRADE
2	A205	AERATOR STEM
3	A207	WEAR PLATE W/CLEAR SILICONE GASKET, STAINLESS STEEL
4	A208	PORT HOUSING GASKET, BLUE SILICONE - FOOD GRADE
5	A211	1 PORT AERATOR HOUSING (NATURAL)
5	A211C	1 PORT AERATOR HOUSING (CLEAR)
6	A212-M	2 PORT AERATOR HOUSING (NATURAL)
6	A212C-M	2 PORT AERATOR HOUSING (CLEAR)
7	A213	3 PORT AERATOR HOUSING (NATURAL)
7	A213C	3 PORT AERATOR HOUSING (CLEAR)
8	A215	TEE HANDLE GASKET
9	A210	AERATOR TEE HANDLE
10	A116	HOPPER PLUG W/GASKET (SHOWN ON NEXT PAGE)
1 & 2	A299	INSIDE AERATOR ASSEMBLY - ITEMS: 1 & 2
1 & 2	AW299	INSIDE AERATOR ASSEMBLY (WHITE RUBBER) - ITEMS: 1 & 2
1, 2 & 3	A200	INSIDE AERATOR ASSEMBLY W/WEAR PLATE - ITEMS: 1, 2 & 3

### ASSEMBLIES

- A201 1 PORT COMPLETE ASSEMBLY NATURAL W/WEAR PLATE - ITEMS: 1,2,3,4,5,8 & 9
- A201C 1 PORT COMPLETE ASSEMBLY CLEAR W/WEAR PLATE - ITEMS: 1,2,3,4,5,8 & 9
- A221 1 PORT COMPLETE ASSEMBLY NATURAL - ITEMS: 1,2,4,5,8 & 9
- A221C 1 PORT COMPLETE ASSEMBLY CLEAR - ITEMS: 1,2,4,5, 8 & 9
- AW221C 1 PORT COMPLETE ASSEMBLY CLEAR (WHITE RUBBER) - ITEMS: 1,2,4,5,8 & 9
- A202 2 PORT COMPLETE ASSEMBLY NATURAL W/WEAR PLATE - ITEMS: 1,2,3,4,6, 8 & 9
- A202C 2 PORT COMPLETE ASSEMBLY CLEAR W/WEAR PLATE - ITEMS: 1,2,3,4,6, 8 & 9
- A222 2 PORT COMPLETE ASSEMBLY NATURAL - ITEMS: 1,2,4,6,8 & 9
- A222C 2 PORT COMPLETE ASSEMBLY CLEAR - ITEMS: 1,2,4,6, 8 & 9
- AW222C 2 PORT COMPLETE ASSEMBLY CLEAR (WHITE RUBBER) - ITEMS: 1,2,4,6,8 & 9
- A203 3 PORT COMPLETE ASSEMBLY NATURAL W/WEAR PLATE - ITEMS: 1,2,3,4,7,8 & 9
- A203C 3 PORT COMPLETE ASSEMBLY CLEAR W/WEAR PLATE - ITEMS: 1,2,3,4,7,8 & 9
- A223 3 PORT COMPLETE ASSEMBLY NATURAL - ITEMS: 1,2,4,7,8 & 9
- A223C 3 PORT COMPLETE ASSEMBLY CLEAR - ITEMS: 1,2,4,7,8 & 9
- AW223C 3 PORT COMPLETE ASSEMBLY CLEAR (WHITE RUBBER) - ITEMS: 1,2,4,7,8 & 9

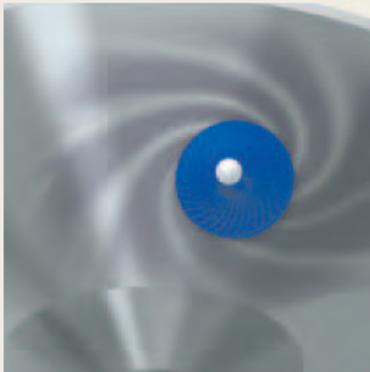


# SpinFlow™

## SILO AERATION SYSTEM

### Announcing a new spin on an old concept...

Vibrating silo aerators are hardly a new idea. Yet the engineers at BTI have developed a revolutionary design to an age old dilemma; faster and more predictable dry bulk unloading. The SpinFlow Silo Aeration System utilizes a series of arched ribs on the inside of the aerator disk and offset discharge ports to create a sweeping air flow pattern that allows for easier product flow without plugging or compacting. This unique sweeping pattern not only allows for maximum product flow but also provides superior clean out of the hopper walls. The aerator disk is made of an FDA approved silicone rubber available in either white or blue. This material provides the perfect balance of rigidity to provide excellent vibration characteristics facilitating the unloading process. The aerator stem is available in Carbon Steel, Aluminum and Stainless Steel providing the versatility you need no matter the application.



The SpinFlow Silo Aerator sweeps your hopper clean



Arched Ribs Spin Air Flow Providing Sweeping Action

Offset ports facilitates air spin for fast unloading of dry bulk product

### Stem Availability

Carbon Steel

Aluminum

Stainless Steel

- 810 Series fits 7/8" (22 mm) hole size
- 820 Series fits 1 1/16" (27 mm) hole size
- 830 Series fits 1 3/8" (35 mm) hole size

Interchangeable with Sure Seal and other silo aeration systems.

### Disk Availability

FDA Approved

Available in White or Blue Silicone Rubber



400 Parkway Drive • Park Hills, MO 63601  
573-518-0600 • Fax: 573-518-0551

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For more information or to purchase, visit [www.BulkTankInc.com](http://www.BulkTankInc.com)

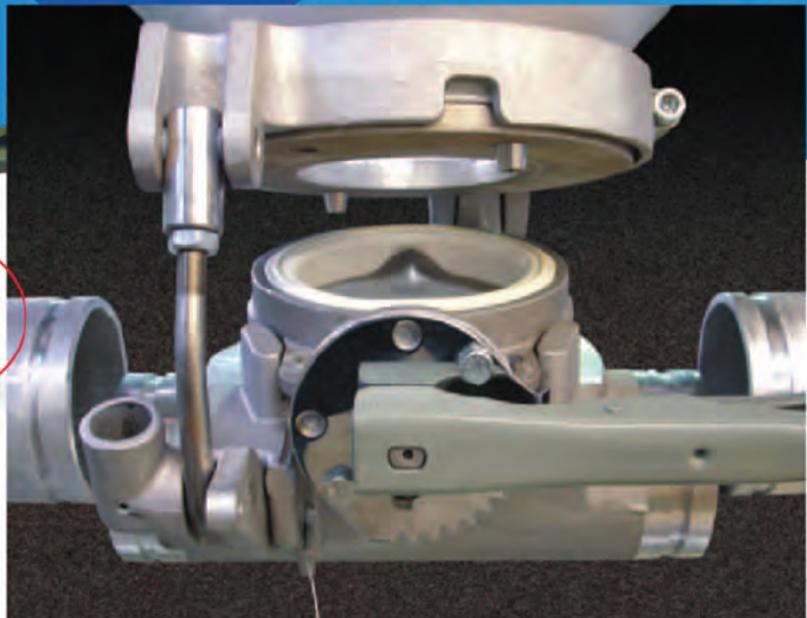


Is your food grade pneumatic trailer really

# Food Grade?

## Open Up to an Easier Way to Clean.

### B.T.I.'s Easy Open Hopper Tee



**Eliminate the dangers of contamination with our new Easy Open Hopper Tee.**

Above - Valve and Tee pulled from a "clean" pneumatic trailer. Mold, mildew and other harmful bacteria grow between the valve seat and hopper flange causing contamination of your food service equipment.

**Lighter, Easier to Operate, Performs Better and Costs Less— that's the trademark of a B.T.I. Product.**



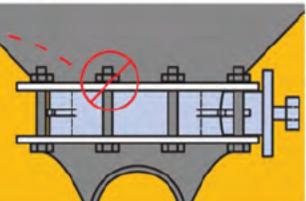
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**No Bolts about it.**

You can easily remove the butterfly valve from the hopper tee for cleaning without cutting or removing bolts, saving time and money.



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**Bulk Tank, Inc.  
Parts List**

**Siphon Flow Easy Open Hopper Tees**

<u>Part #</u>	<u>Part Description</u>
BT-500LPEO-A	5" Easy Open Low Profile Tee
BT-600LPEO-A	6" EAsy Open Low Profile Tee

**Siphon Flow Easy Open Parts**

<u>Part #</u>	<u>Part Description</u>
BT-EO-HANDLE-A	Easy Open Handle
BT-EO-5-COLL-F	5" Mounting Collar Assembly
BT-EO-5-COLL-F4	5" Mounting Collar Assembly (4 Hole Flange)
BT-EO-6-COLL-F	6" Mounting Collar Assembly
BT-EO-6-COLL-F4	6" Mounting Collar Assembly (4 Hole Flange)
BT-500LPEO-T-F	5" Easy Open Tee Only Assembly (Standard)
BT-500-LPEO-T-FK	5" Easy Open Tee Only Assembly (Keystone Valve)
BT-600-LPEO-T-F	6" Easy Open Tee Only Assembly (Standard)
BT-600LPEO-T-FK	6" Easy Open Tee Only Assembly (Keystone Valve)
BT-EO-CAM-F	Easy Open Cam Only Assembly
BT-EO-BOLT-SHS	Special Locating Bolt
BT-EO-BOLT-SHS4	Special Locating Bolt For 4 Hole Flange
BT-EO-PIVOT	Pivot Nut For Hook
BT-EO-HOOK	Cam Hook Bolt 1/2"-20
BTEO-PP-PIN	Knurled Press Pin
BT-EO-HINGE	Hinge Shaft Pin Tapped
BOLT-HHT500-20	Bolt 1/2-20x3-1/2" Long Full Thread
BT-EO-CP-PIN	Cam Hinge Knurled Press Pin
BD-SFPIN-LAN	Safety Latch Pin With Steel Lanyard

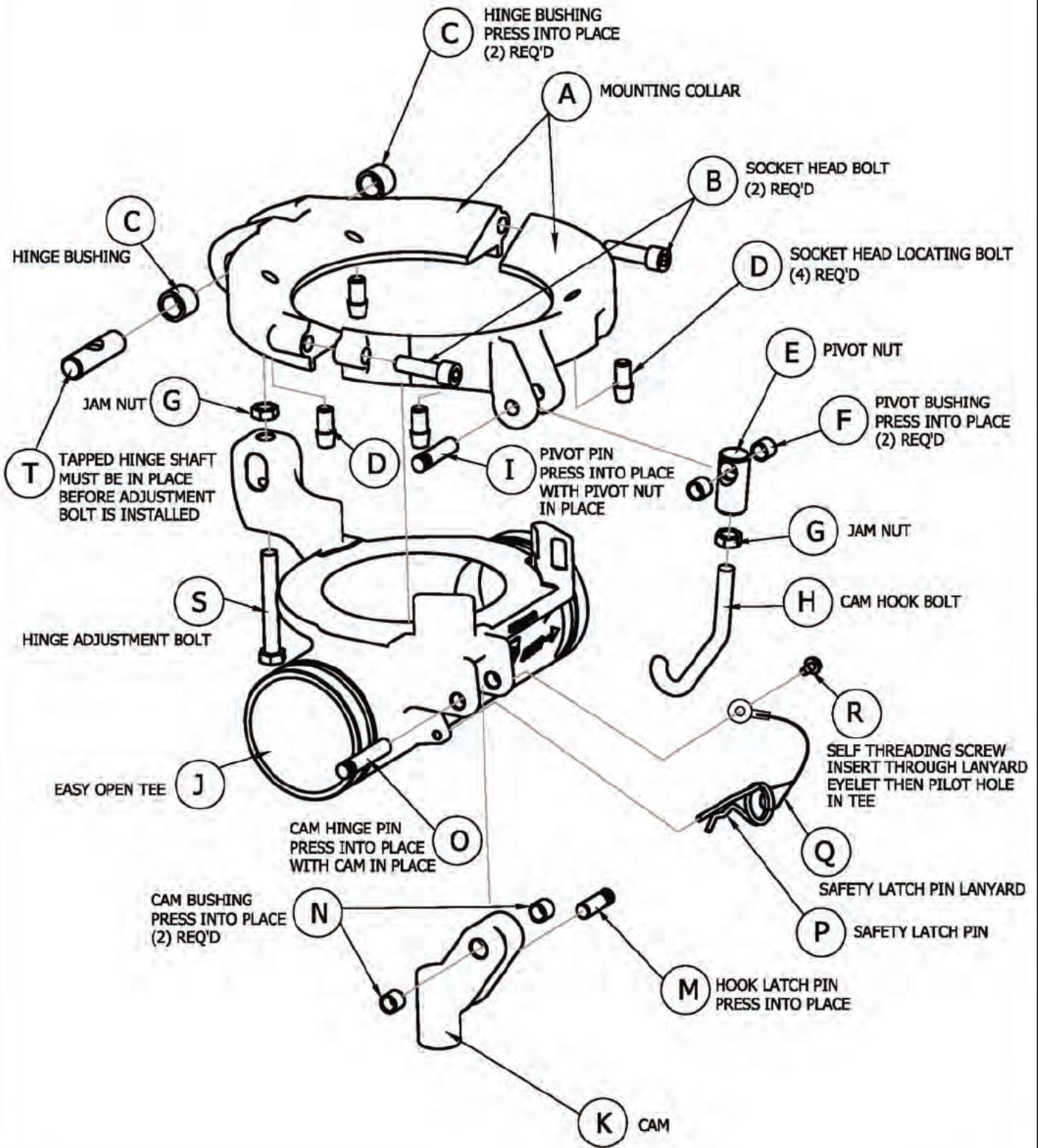
**Easy Open Pipe Hanger Kit**

<u>Part #</u>	<u>Part Description</u>
BT-6EO-PH	Pipe Hanger Kit for 5" Or 6" Easy Open Tee

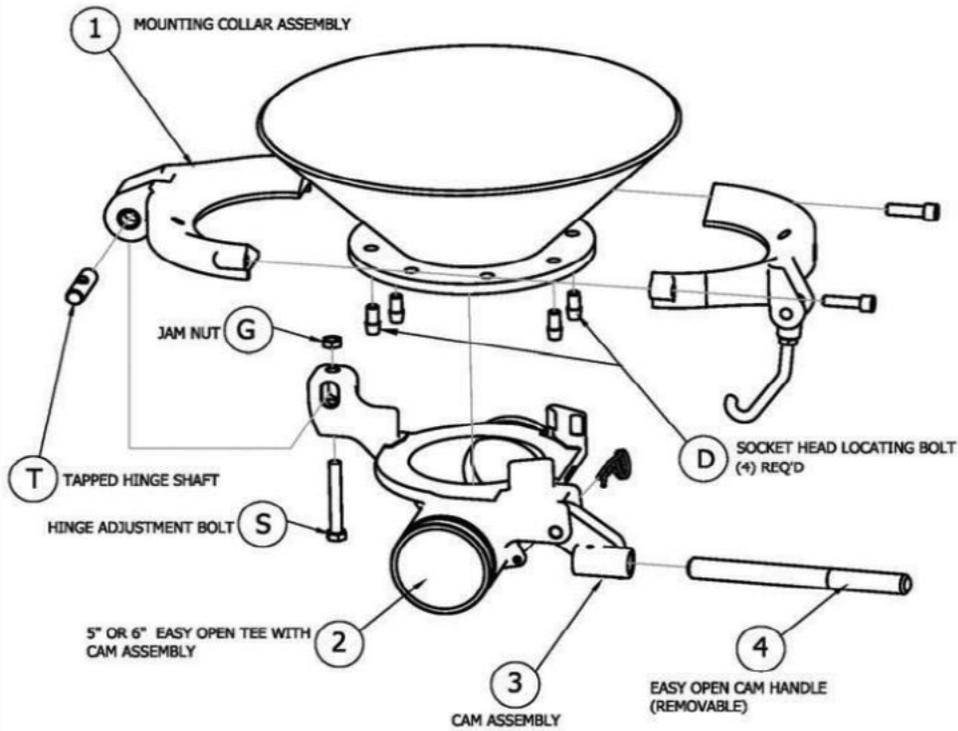
**Easy Open Pipe Hanger Kit Parts**

<u>Part #</u>	<u>Part Description</u>
BT-PH-HANGER	Hanger Bar
BT-PH-UBOLT-6EO	U-Bolt For 5" Or 6" Collar
BT-PH-L-BRKT	L-Bracket
BT-PH-UBOLT-4	U-Bolt For 4" Pipe

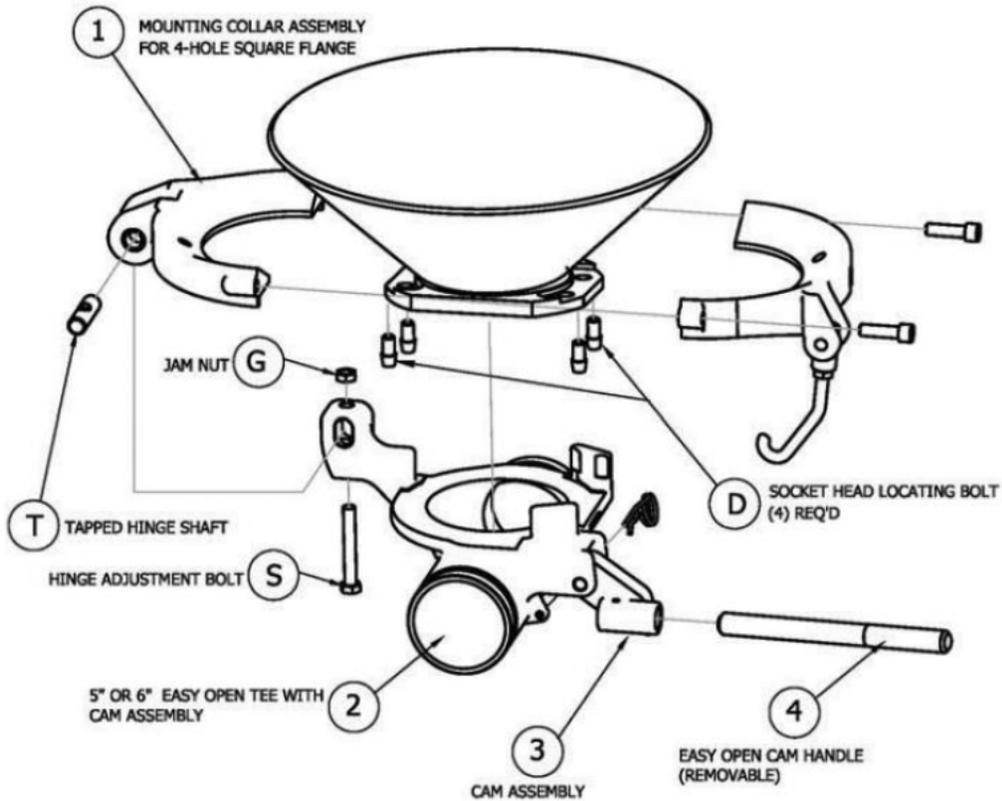
# 5" - 6" EASY OPEN TEE PARTS BREAKDOWN STREET/DRIVER SIDE ONLY



**5" - 6" EASY OPEN TEE ASSEMBLY BREAKDOWN - STREET/DRIVER SIDE ONLY**

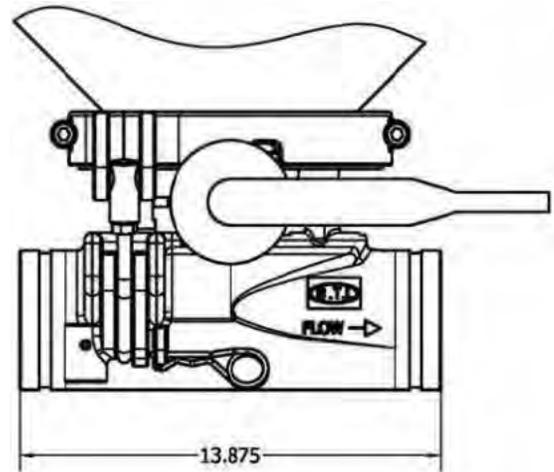
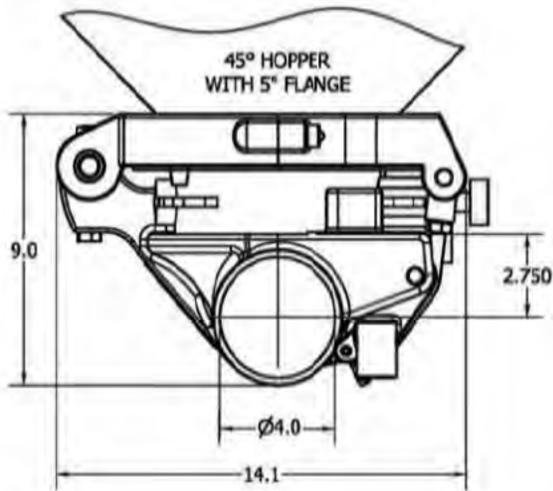


**5" - 6" EASY OPEN TEE ASSEMBLY BREAKDOWN 4-BOLT SQUARE HOPPER FLANGE, STREET/DRIVER SIDE ONLY**



**5" EASY OPEN TEE DIMENSION SHEET**

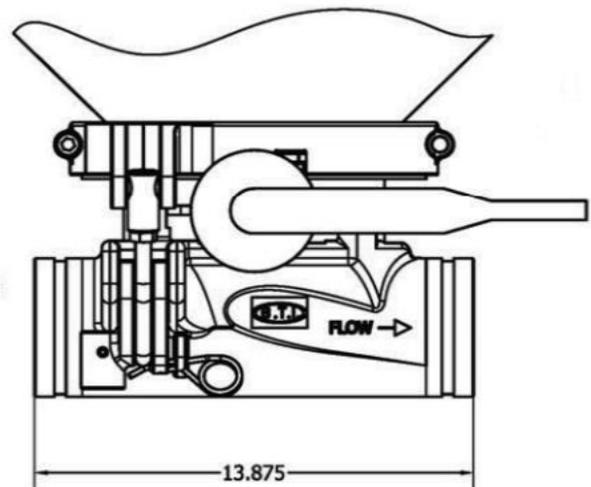
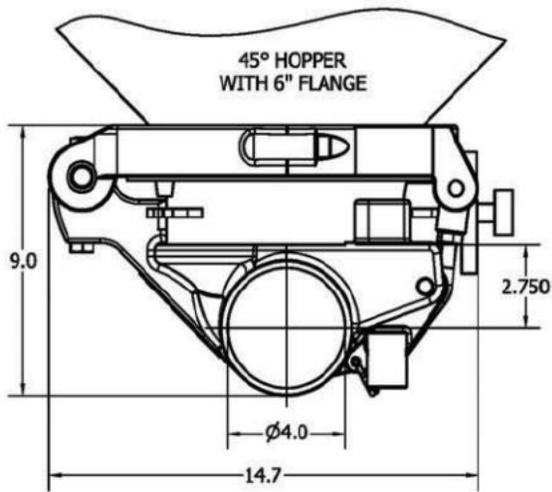
**PART # BT-500LPEO-A**



**STREET/DRIVER SIDE ONLY**

**6" EASY OPEN TEE DIMENSION SHEET**

**PART # BT-600LPEO-A**

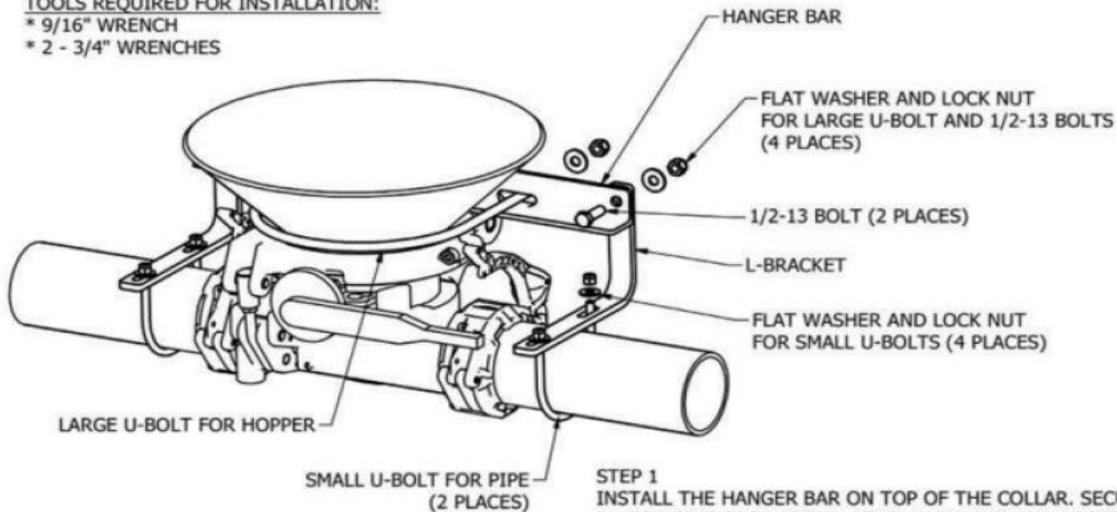


**STREET/DRIVER SIDE ONLY**

## EASY OPEN PIPE HANGER INSTALLATION

**TOOLS REQUIRED FOR INSTALLATION:**

- \* 9/16" WRENCH
- \* 2 - 3/4" WRENCHES



**STEP 1**  
INSTALL THE HANGER BAR ON TOP OF THE COLLAR. SECURE IT IN PLACE USING THE LARGE U-BOLT, WASHERS, AND LOCKNUTS. MAKE SURE THE HANGER BAR IS PARALLEL TO THE UNLOAD LINE BEFORE TIGHTENING NUTS.

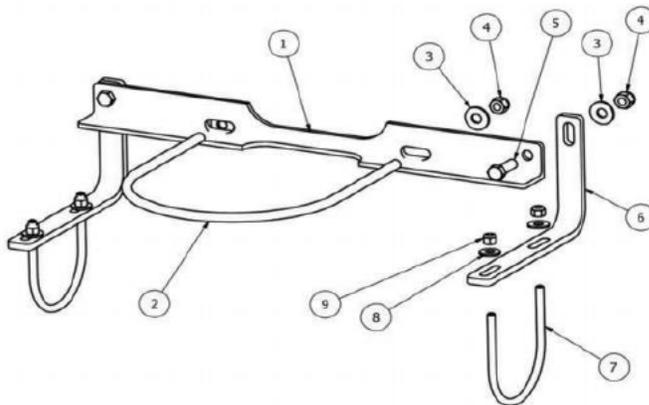
**STEP 2**  
ASSEMBLE THE L-BRACKETS AND SMALL U-BOLTS. HAND TIGHTEN THE NUTS AT THIS POINT.

**STEP 3**  
ALIGN THE L-BRACKET WITH THE HANGER BAR AND THE SMALL U-BOLTS. TIGHTEN THE NUTS FOR THE SMALL U-BOLTS. LAST TIGHTEN THE NUTS FOR THE 1/2-13 BOLTS.

**BEFORE INSTALLING PIPE HANGER KIT**

- MAKE SURE EASY OPEN TEE IS PROPERLY INSTALLED AND ADJUSTED
- MAKE SURE PIPES ARE CUT TO GIVE PROPER 1/4" CLEARANCE TO END OF TEE
- CLAMP PIPES IN PLACE USING COUPLERS

## EASY OPEN PIPE HANGER KIT



### FOR USE WITH 5" OR 6" OPEN HOPPER TEES

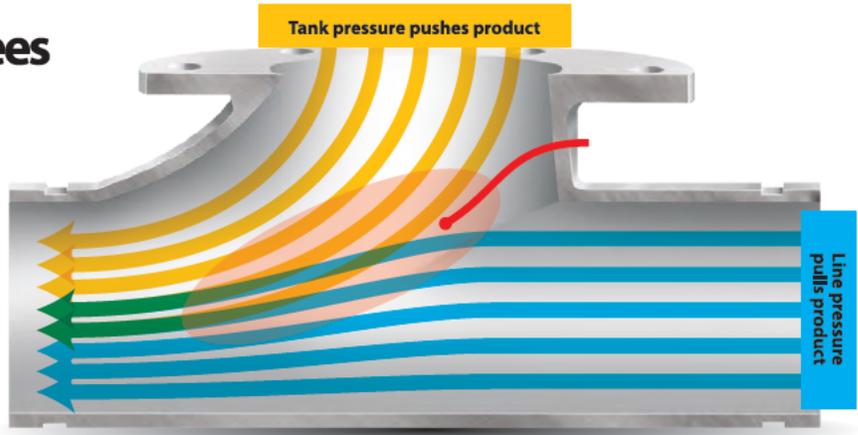
Item	Part Number	Description	BT-6EO-PH
1	BT-PH-HANGER	HANGER BAR	1
2	BT-PH-UBOLT-6EO	U-BOLT FOR 6" EO COLLAR	1
3	WSR-500	FLAT WASHER 1/2"	4
4	NUT-LK-500C	LOCK NUT 1/2-13	4
5	BLT-HX-500C1.5	HEX HEAD BOLT 1/2-13	2
6	BT-PH-L-BRKT	L-BRACKET	2
7	BT-PH-UBOLT-4	U-BOLT FOR 4" PIPE	2
8	SS-3/8-F-WASH	FLAT WASHER 3/8"	4
9	NUT-LK-375C	LOCK NUT 3/8-16	4



# Two forces are faster than one.

## SiphonFlow™ Hopper Tees

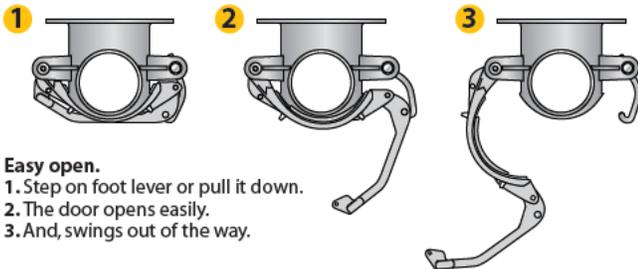
The product is pushed out of the tank with tank pressure and also pulled out of the tank with line pressure. The unique fluted design causes a venturi effect resulting in the "pulling" of product from the hopper. The SiphonFlow Tee's field tests have proven smoother, faster and more efficient unloading, up to 22% faster. And, 10 to 20 degrees less heat during the unloading process, which is especially important when handling heat sensitive materials. In addition, an independent testing lab has flow tested approximately 300 SCFM's more flow than the most popular design tee on the market today.



## B.T.I.'s Siphon Flow Bottom Drop Tee

**Hands down. It just doesn't get any easier.**

All Siphon Flow Bottom Drop Tees have special polymer bushings at all pivot points to assure years of easy operation.



- Easy open.**
1. Step on foot lever or pull it down.
  2. The door opens easily.
  3. And, swings out of the way.

## B.T.I.'s Siphon Flow Straight Tee



## B.T.I.'s Siphon Flow Low Profile Tee



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**Bulk Tank, Inc.  
Parts List**

**Siphon Flow Hopper Tees**

<u>Part #</u>	<u>Part Description</u>
BT-500-A	5" Aluminum Tee
BT-500LP-A	5" Low Profile Aluminum Tee
BT-510-A	5" Bottom Drop Aluminum Tee
BT-510LP-A	5" Low Profile Bottom Drop Aluminum Tee
BT-600-A	6" Aluminum tee
BT-600LP-A	6" Low Profile Aluminum Tee
BT-605-A	6" Aluminum Tee - 5" Unload
BT-605LP-A	6" Low Profile Aluminum Tee - 5" Unload
BT-610-A	6" Bottom Drop Aluminum Tee
BT-610LP-A	6" Low Profile Bottom Drop Aluminum Tee
BT-615-A	6" Bottom Drop Aluminum Tee - 5" Unload
BT-810-A	8" Bottom Drop Aluminum Tee
BT-EO-HANDLE-A	Easy Open Handle for 8" Bottom Drop Tee

**Food Grade Version**

BT-500-A-FG	5" Aluminum Tee - Food Grade
BT-500LP-A-FG	5" Low Profile Aluminum Tee - Food Grade
BT-600-A-FG	6" Aluminum Tee - Food Grade
BT-600LP-A-FG	6" Low Profile Aluminum Tee - Food Grade

**Stainless Steel Ultra Lightweight Low Profile**

BT-500LP-SS	5" Low Profile Stainless Steel Tee
BT-600LP-SS	(Set to Manufacture)
BT-510LP-SS-SS	(Set to Manufacture)
BT-610LP-SS-SS	6" Low Profile Bottom Drop Stainless Steel Tee

**Siphon Flow Bottom Drop Parts**

<u>Part #</u>	<u>Part Description</u>
BT-510-A-DOOR-F	5" Bottom Drop Door Assembly
BT-610-A-DOOR-F	6" Bottom Drop Door Assembly
BT-810-A-DOOR-F	8" Bottom Drop Door Assembly
BT-510-GASKET	5" Bottom Drop Gasket
BT-610-GASKET	6" Bottom Drop Gasket
BT-810-GASKET	8" Bottom Drop Gasket
BD-PIVOTPIN	Cam Pivot Pin 11/16" Diameter
BD-HOOK	Cam Hook Bolt 7/16"-20
BD-CLEVISPIN	Door Clevis Pin
BD-HITCHPIN	Hitch Pin
BD-SFPIN-LAN	Safety Pin With Steel Lanyard



Proudly made in the USA  
exclusively for the Pneumatic Tank Trailer Industry.

**Sand has met its match.**

## BTI's SandHog™ Tee and Elbow

**Specially designed for highly abrasive materials.**

Finally, a hopper tee and elbow designed for extreme wear resistance in highly abrasive situations. The SandHog™ Hopper Tee and SandHog™ Elbow is projected to last twice as long as conventional abrasion resistant products.

Frac sand and similar abrasive materials has long been a problem to tank trailer hopper tees and elbows wearing through the downstream radius like a hot knife through butter.

The SandHog™ has patented design features in conjunction with BTI's Duralon™, a special iron alloy that provides up to twice the wear resistance of conventional tees and results in abrasion resistance unlike anything on the market today.

The patented design incorporates a ledge on the tee and a spherical pocket on the tee that catches the abrasive material being discharged and uses that material to protect critical wear points.

In addition, the BlackMaxx Super SandHog Elbow has a cathodic epoxy coating which provides a protective surface and offers the ultimate in corrosion and chemical protection. The coating provides superior salt spray, humidity and cyclic corrosion resistance.

The SandHog Elbow line is available in two industry standard cam and groove configurations: female to male and male to female. The elbow comes standard at 45° but connecting two of the elbows together offers a 90° option.

The SandHog™ Hopper Tee is available in a bottom drop or straight version. It is available in 3 Connection Configurations: Straight, Female Cam connection, and Male Cam connection.

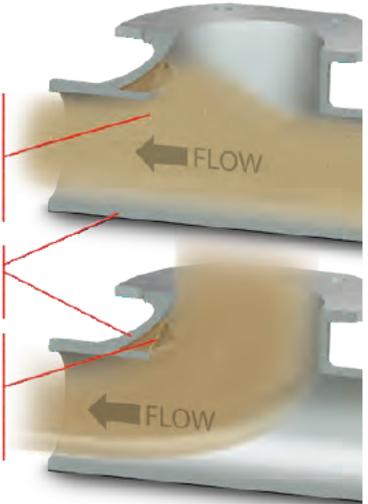


### Protects tee during discharge - horizontally, vertically or both.

Material traveling through bottom of pipe rises at tee opening wearing out the radius on a normal tee. The SandHog™ Hopper Tee catches material to protect the downstream radius. The material now wears against itself.

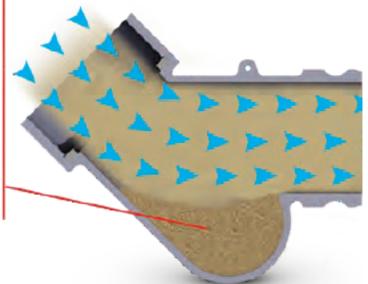
BTI's Duralon™ is a special iron alloy that provides up to twice the wear resistance of conventional tees.

Material discharging from hopper is forced against tee radius causing premature failure of a normal tee. Again, the SandHog™ Hopper Tee catches material to protect the radius. The material now wears against itself.



### Our Sandhog Elbows offer a "100% satisfaction or return it" guarantee and are 100% American made.

Our SandHog elbows incorporate a unique spherical pocket design that traps a small amount of product causing the discharged product to wear against itself instead of the fitting wall. These materials wear at corner and bend points along the discharge line. Bottom line: the SandHog Elbow uses the product being discharged to insulate these critical wear points.



All BTI products are guaranteed to:  
**LAST LONGER. WORK BETTER.**

**1-800-841-5524**



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**BULK TANK, Inc.  
Parts List**

**SandHog Hopper Tee**

BT-400-D	4" SandHog Straight Tee
BT-410-D	4" Bottom Drop SandHog Tee
BT-500-D	5" SandHog Straight Tee
BT-510-D	5" Bottom Drop SandHog Tee
BT-600-D	6" SandHog Straight Tee
BT-610-D	6" Bottom Drop SandHog Tee

**Duralron Hopper Tee**

**Standard**

BT-615-D	6" by 5" Bottom Drop Duralron Tee
BT-810-D	8" Bottom Drop Duralron Tee

**Low Profile**

BT-500LP-D	5" Low Profile Duralron Straight Tee
BT-510LP-D	5" Low Profile Bottom Drop Duralron Tee
BT-600LP-D	6" Low Profile Duralron Straight Tee
BT-610LP-D	6" Low Profile Bottom Drop Duralron Tee
BT-605LP-D	6" by 5" Low Profile Duralron Tee

**\* All Sand Hog Tees come Standard without Grooves. Grooved Tees are available with an Upcharge by adding "G" or "GG" to the part number.**

G	G Upcharge
GG	GG Upcharge

**\*\* Additional Options**

PCL	Male Camlock Casted Fitting Upcharge <b>Only available on 5" Straight Tee and 5" Bottom Drop Tee</b>
PCLF	Female Camlock Casted Fitting Upcharge <b>Only available on 5" Bottom Drop Tee</b>
RT	Rear Thread Upcharge

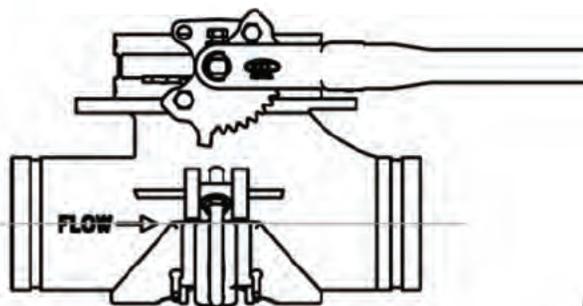
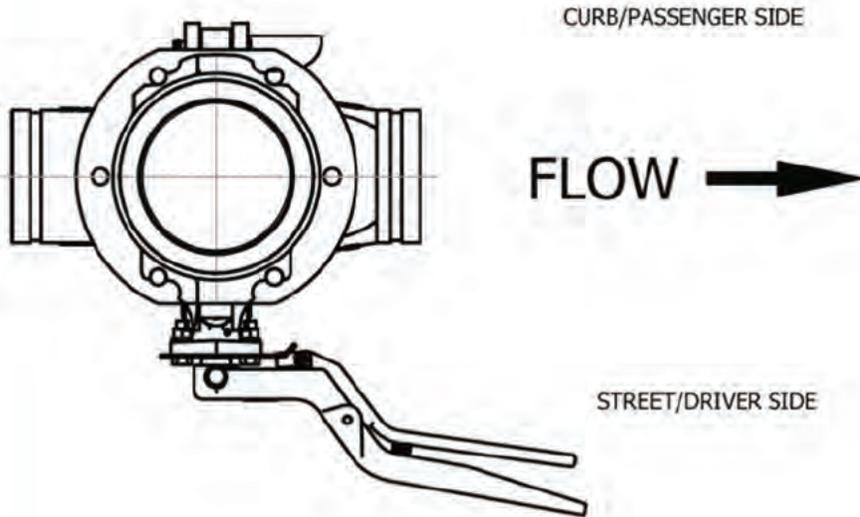
**Super Sandhog Elbows**

BT-45E-D-FXF-1	BlackMAXX Super Female by Female 45 Degree Assembly
BT-45E-D-FXM-1	BlackMAXX Super Female by Male 45 Degree Assembly
BT-45E-D-MXF-1	BlackMAXX Super Male by Female 45 Degree Assembly
BT-45E-D-MXM-1	BlackMAXX Super Male by Male 45 Degree Assembly

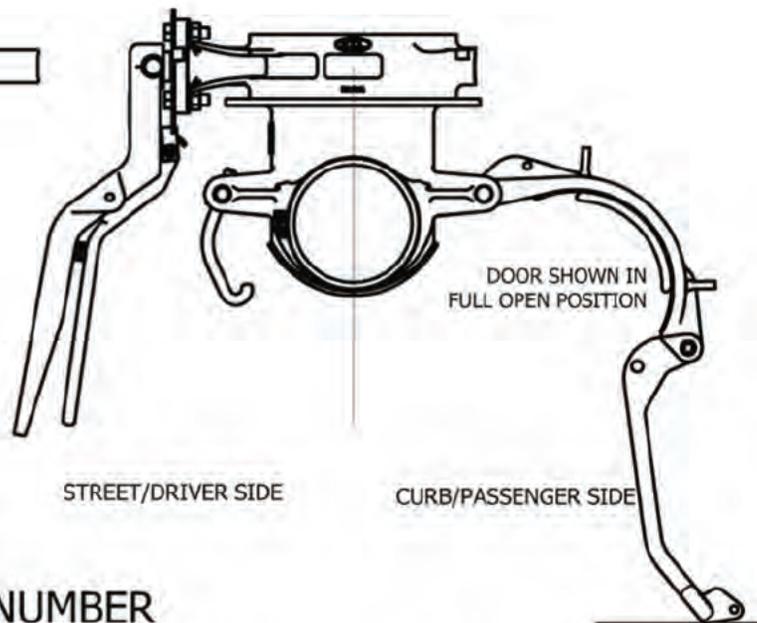
**Sandhog Elbows**

BT-45E-D-FXF-4	Plated Female by Female 45 Degree Assembly
BT-45E-D-FXM-4	Plated Female by Male 45 Degree Assembly
BT-45E-D-MXF-4	Plated Male by Female 45 Degree Assembly
BT-45E-D-MXM-4	Plated Male by Male 45 Degree Assembly

# BOTTOM DROP TEE ORDERING INFORMATION FOR STREET/DRIVER SIDE ASSEMBLY



STREET/DRIVER SIDE VIEW



STREET/DRIVER SIDE

CURB/PASSENGER SIDE

## BOTTOM DROP PART NUMBER

**BT-XXX-X-SS STREET/DRIVER SIDE ASSEMBLY**

TEE SIZE

- 510
- 610
- 615 - 5" UNLOAD LINE
- 510LP
- 610LP
- 810

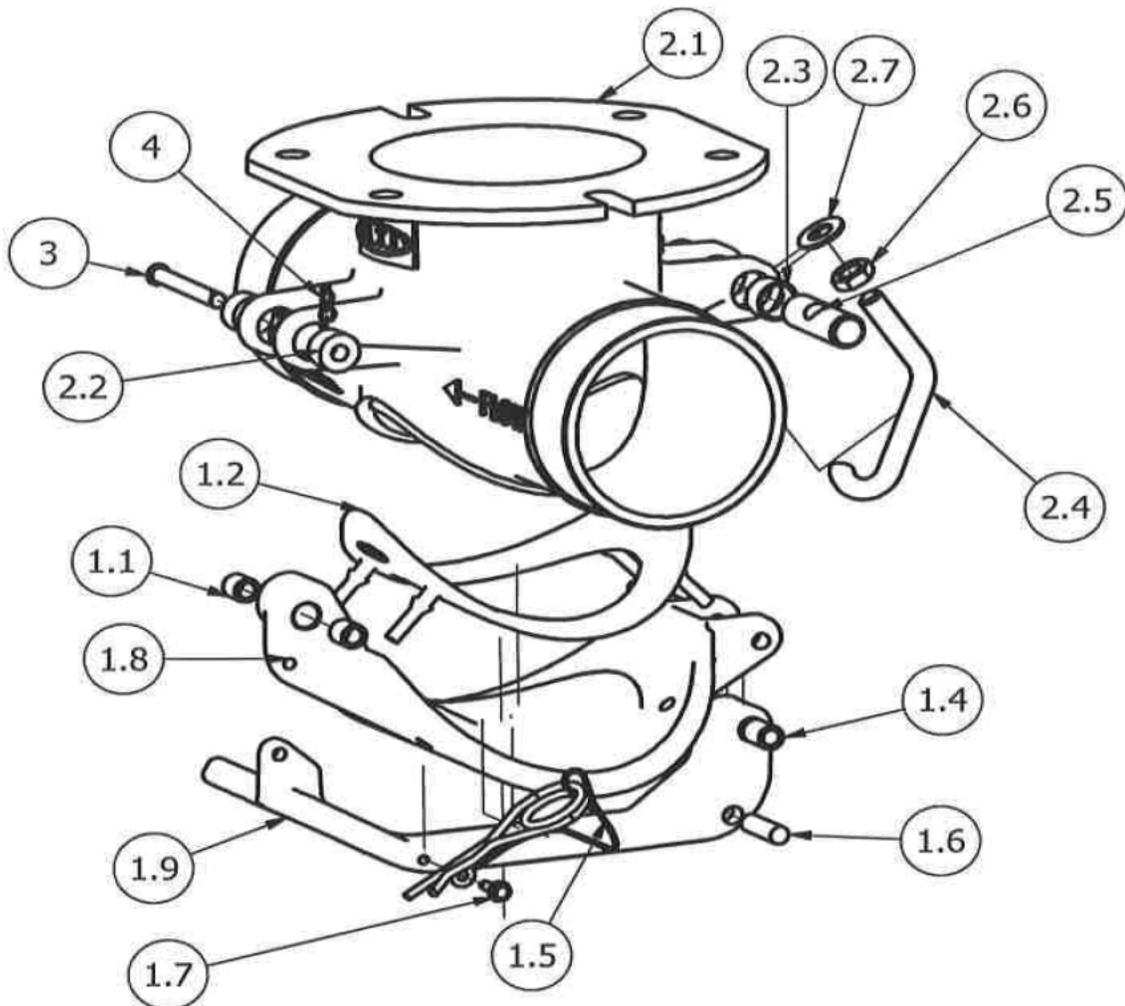
TEE TYPE

- A - FOR ALUMINUM TEE
- D - FOR DURAIRON TEE



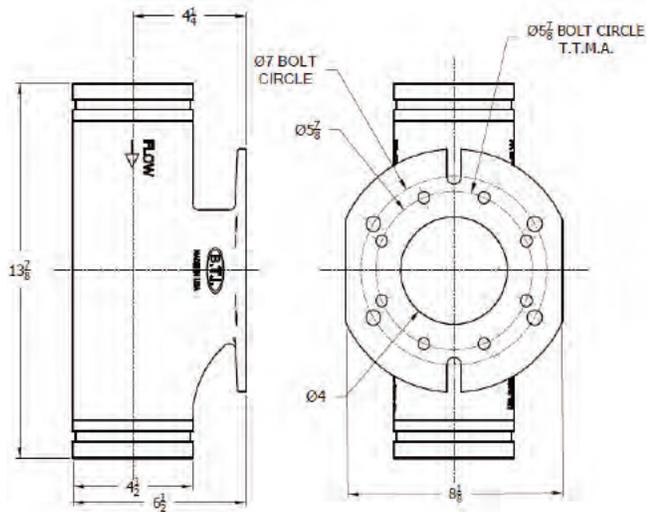
## Bottom Drop Door Parts

Part Number	Description	Item Numbers
BT-510-GASKET	5" B/D Gasket Only	1.2
BT-610-GASKET	6" B/D Gasket Only	1.2
BT-810-GASKET	8" B/D Gasket Only	1.2
BT-510-A-DOOR-F	5" B/D Door Assy	1.2, 1.3, 1.4, 1.5, 1.6,
BT-610-A-DOOR-F	6" B/D Door Assy	1.2, 1.3, 1.4, 1.5, 1.6,
BT-810-A-DOOR-F	8" B/D Door Assy	1.2, 1.3, 1.4, 1.5, 1.6,
BD-DOOR-A-KIT	B/D Attachment kit	1.1, 2.2, 3, 4
BD-HOOK-ASSM	5" & 6" Hook Assy	2.3, 2.4, 2.5, 2.6, 2.7
BD-810-H-ASSY	8" Hook Assy	2.3, 2.4, 2.5, 2.6, 2.7
BD-A-BUSH-D	Bushing Door Hinge	1.1
BD-HINGPIN	Cam Hinge Pin	1.3
BD-BUSH-C	Bushing Cam Pivot	1.4
BD-SFPIN-LAN	Safety Pin W/Lanyard	1.5

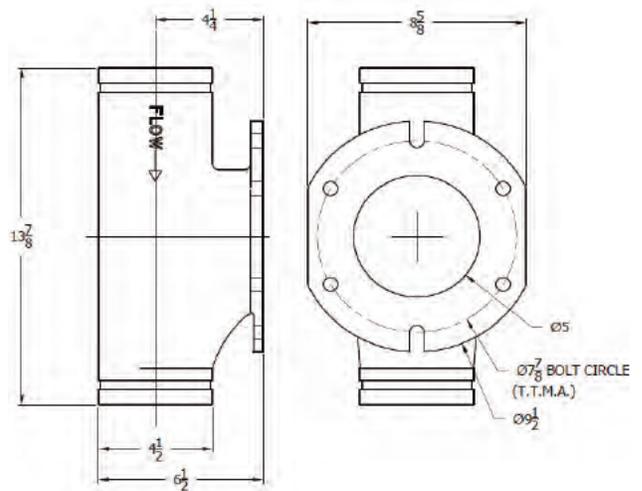


# BTI Siphon Flow Standard Straight Tee Drawings

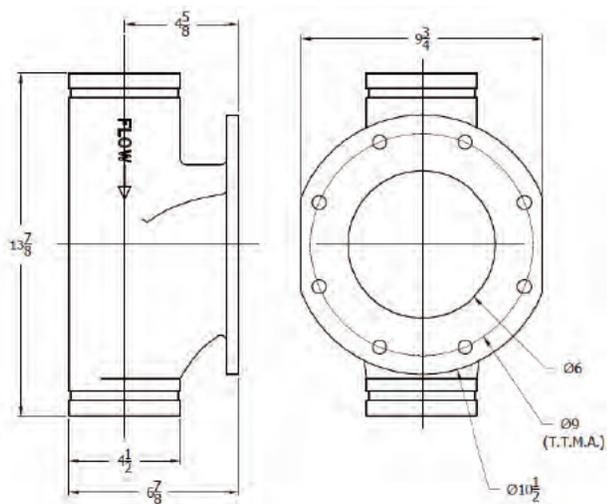
BT-400-D-GG



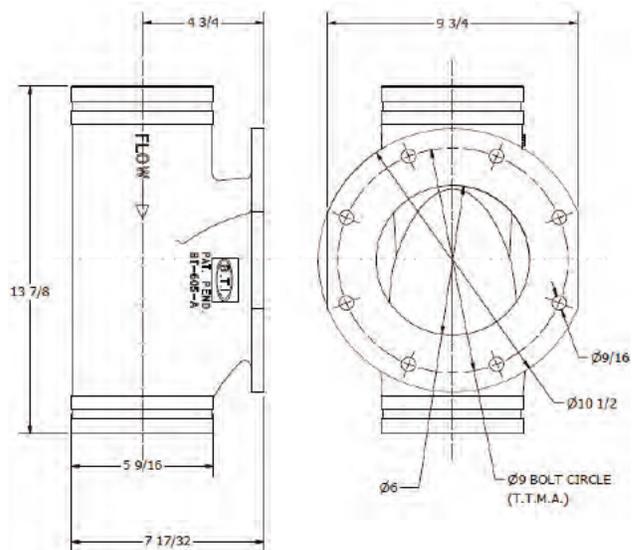
BT-500-A or-D



BT-600-A or-D

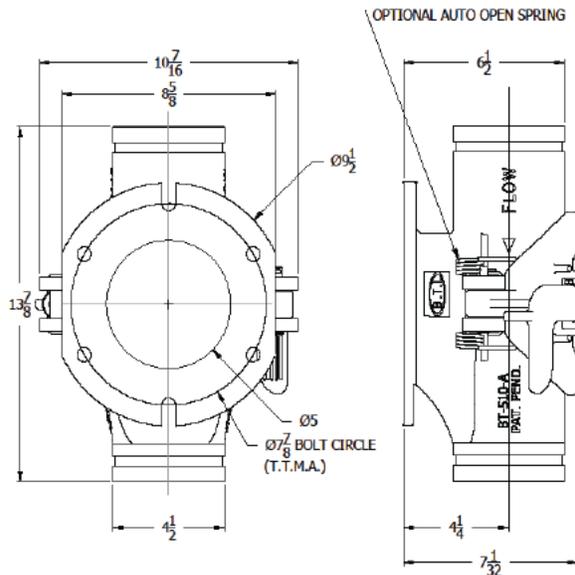


BT-605-A or D

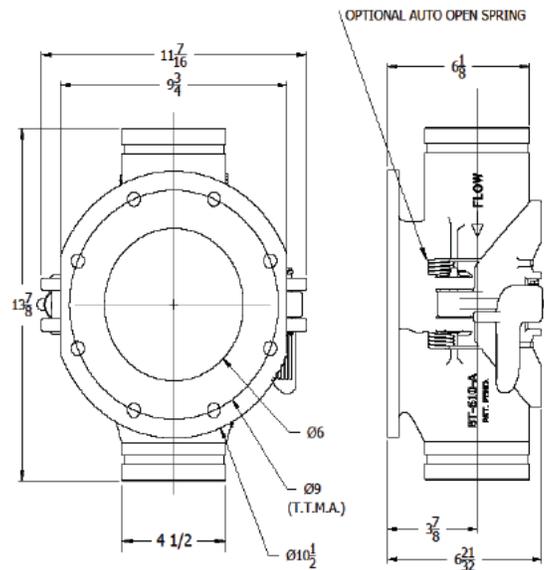


# BTI Aluminum Bottom Drop Tee Drawings

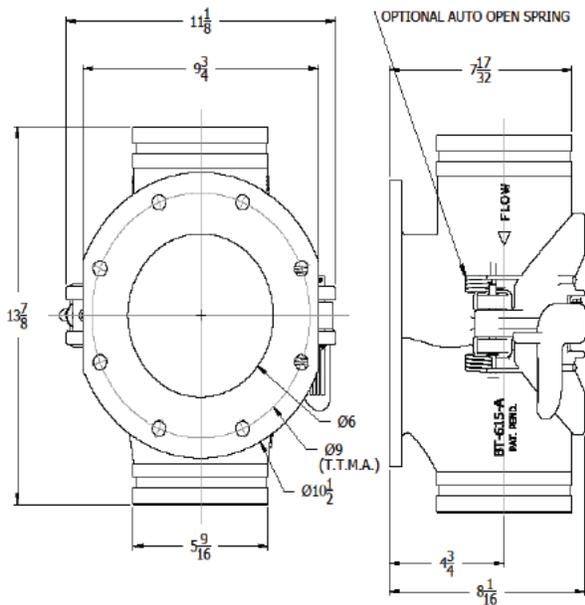
BT-510-A or D



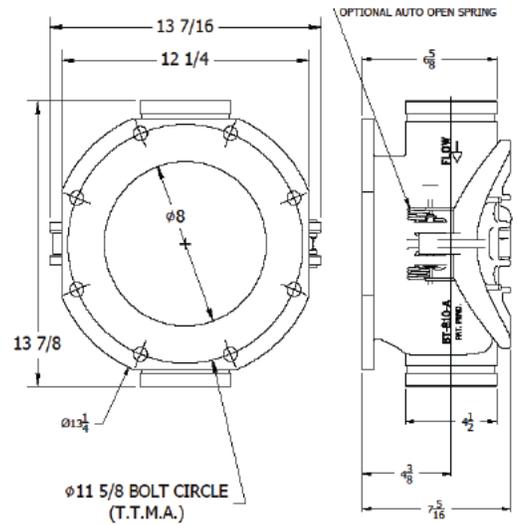
BT-610-A or D



BT-615-A or D

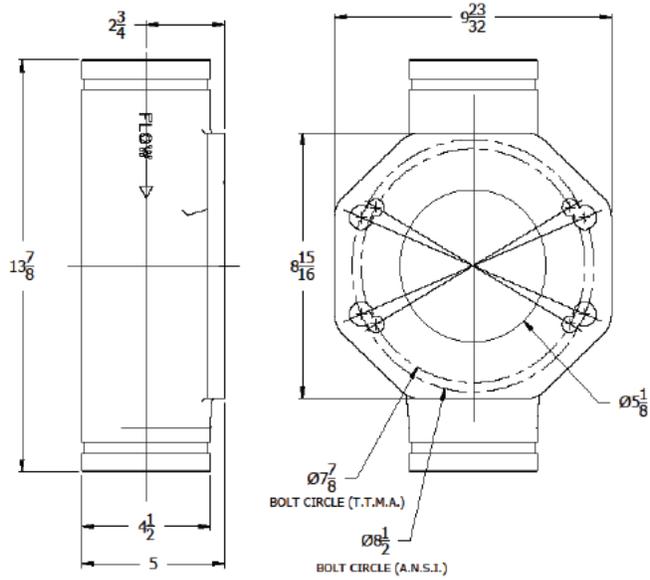


BT-810-A or D

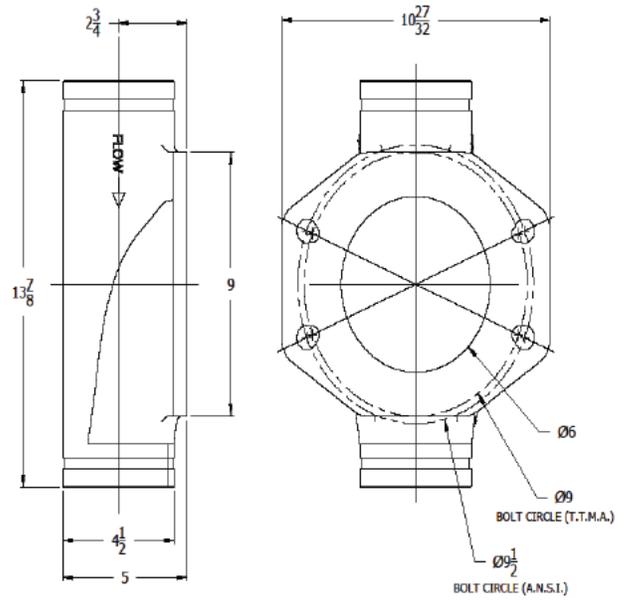


# BTI Lo Pro Aluminum Straight & Bottom Drop Tees

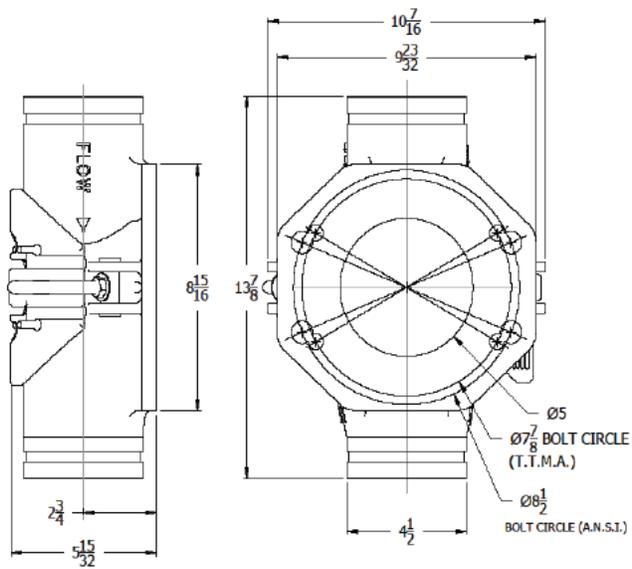
BT-500LP-A



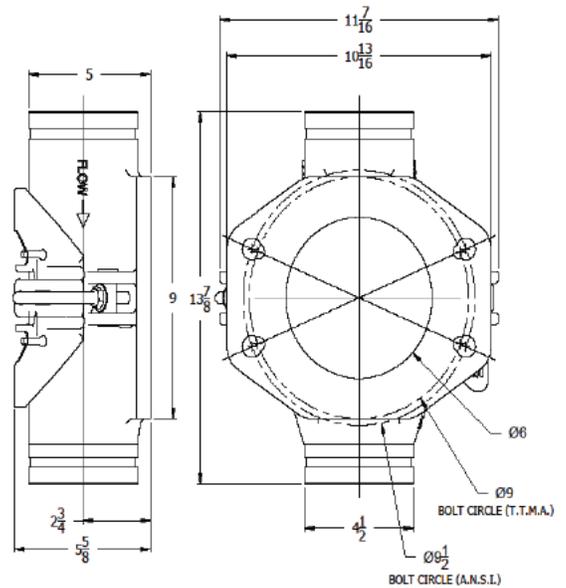
BT-600LP-A



BT-510LP-A

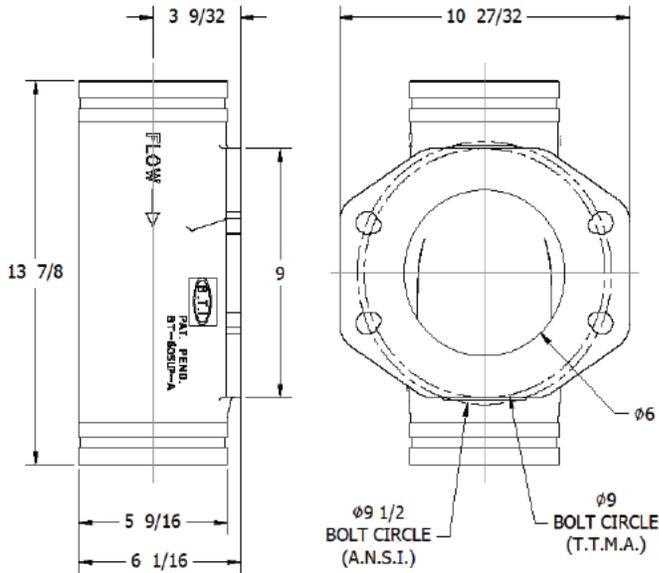


BT-610LP-A

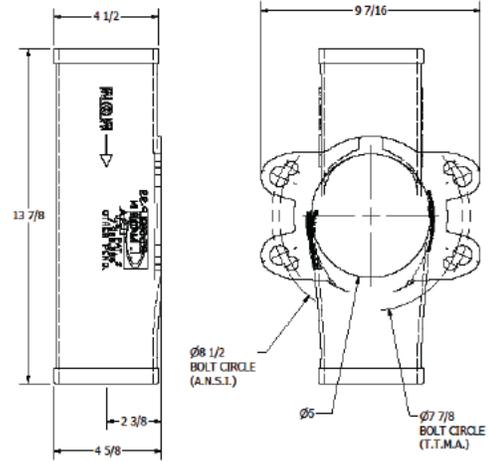


# BTI 6X5 Aluminum Lo Pro & Stainless Lo Pro Drawings

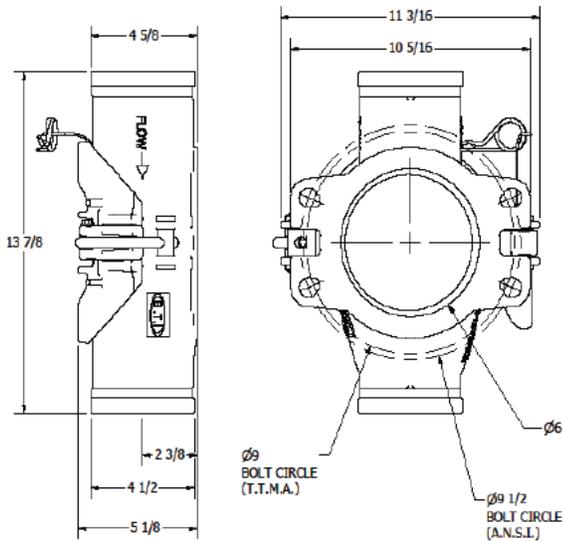
BT-605LP-A



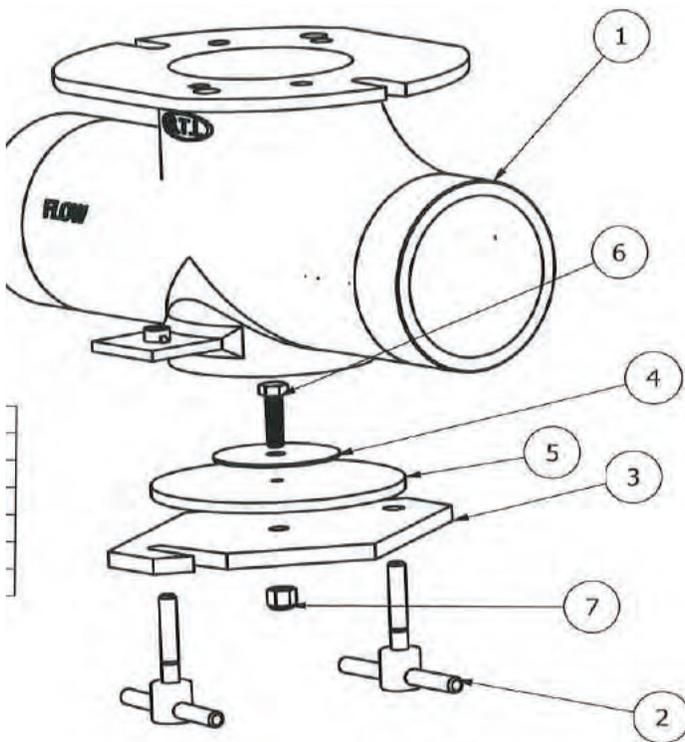
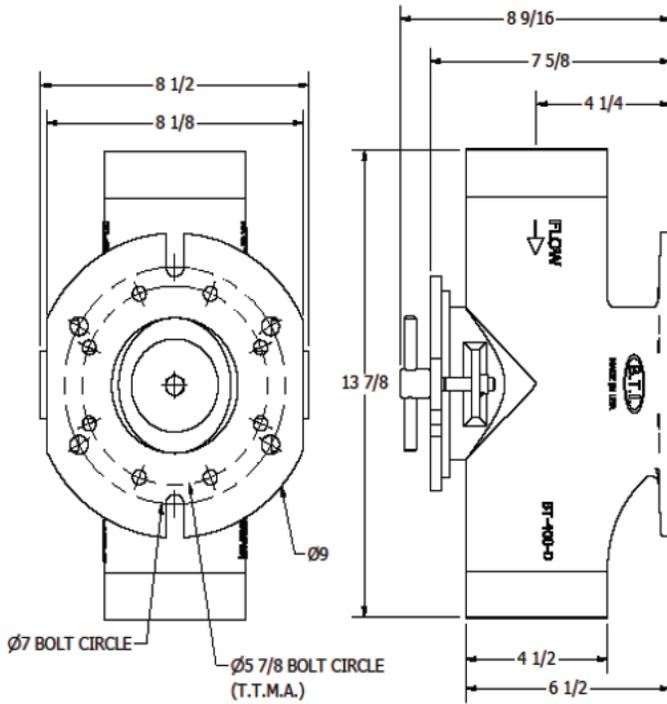
BT-500LP-SS



BT-610LP-SS-SS



# BTI BT-410-D Drawing & BD Door Parts



Part Number	Description	Item Number
B-315737	Tee Handle	2
824	Door only	3
681	Gasket Retainer	4
B-381678	4" Door Gasket	5
3753	Bolt	6
B-3724	Nut	7
820	4" Door Assy	3, 4, 5, 6, 7

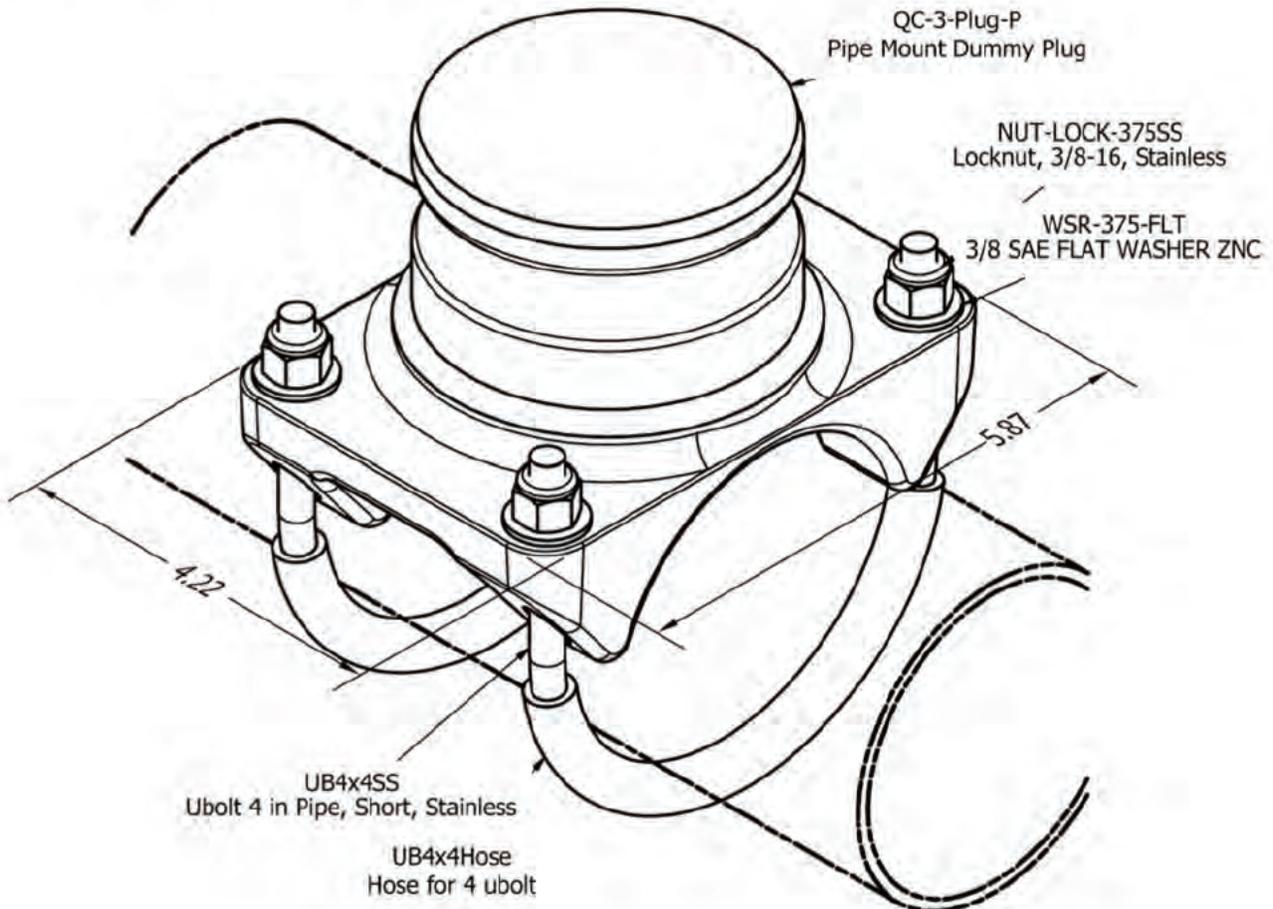


**Bulk Tank, Inc.  
Parts List**

**Hose Dummy Coupler**

<u>Part#</u>	<u>Part Description</u>
QC-3-PLUG	3" Hose Dummy Coupler
QC-4-PLUG	4" Hose Dummy Coupler
QC-3-PLUG-KIT	3" Hose Dummy Coupler Kit
QC-4-PLUG-KIT	4" Hose Dummy Coupler Kit

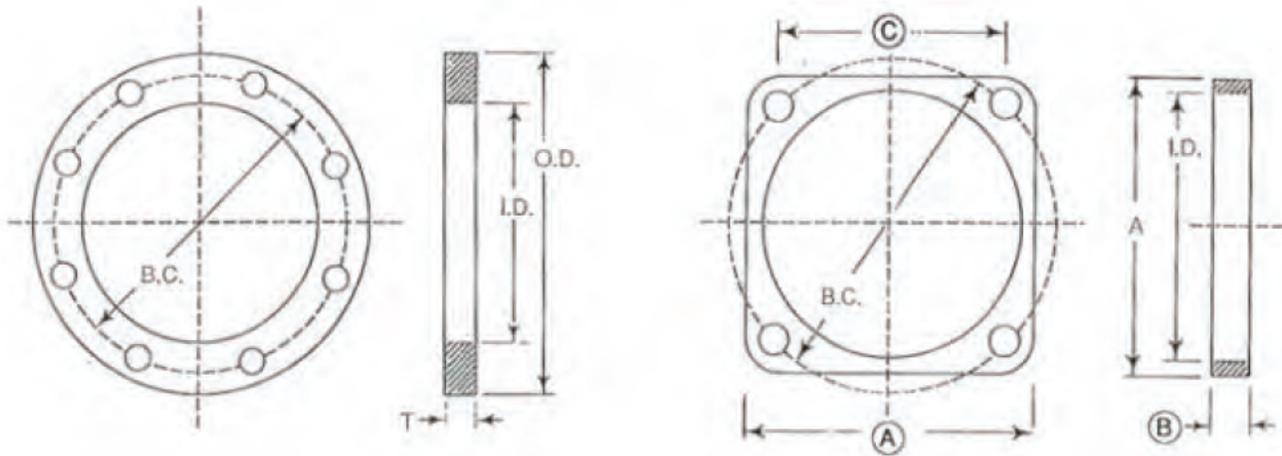
**BULK TANK INC.  
HOSE DUMMY COUPLER**



## BTI Flange Bolt Patterns

\*Water Jet Aluminum Flanges Available  
Consult factory for Price and Delivery

### ALUMINUM PIPING AND HOPPER WELD FLANGES



3" Square Check Valve Flange – Aluminum (Water Jet Available – Consult Factory)

I.D.	Part #	B.C.	# Of Holes	Hole size	A	B	C
3.562	B-4725	5.00	4	.5625	4.875	.375	3.50

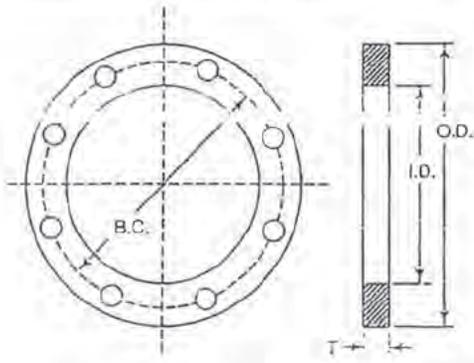
TTMA Piping and Valve Flanges – Aluminum (Water Jet Available – Consult Factory)

Size	Part #	Thickness	O.D.	I.D.	B.C.	# of Holes	Hole Size
3"	B-4750	.375	5.625	3.562	4.875	8	.4375

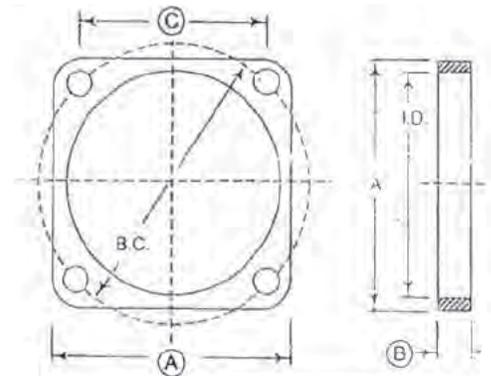
\*\* Drilling in accordance with TTMA recommended standards

Valve Flanges – Aluminum (Water Jet Available – Consult Factory)

Size	Part #	Thickness	O.D.	I.D.	B.C.	# of Holes	Hole Size
2"	B-4748	.375	5.562	2.375	4.25	4	.4375
3"	B-4733	.375	6.00	3.562	4.875	6	.4375
3"	B-4733B	.375	6.00	None	4.875	6	.4375
4"	B-4726	.50	9.00	4.00	7.00	6	.4375
4"	B-4751	.375	6.625	4.50	5.875	8	.4375
5"	B-4702	.50	10.00	5.00	7.875	6	.5625
6"	B-4701	.50	11.00	6.00	9.00	8	.5625
8"	B-4700	.50	13.50	8.00	11.625	8	.6875
10"	B-4703	.50	15.50	10.00	13.75	8	.6900
12"	B-4708	.50	18.875	12.00	16.750	12	.6880

**Valve Flanges - Steel**

Size	Part #	Thickness	O.D.	I.D.	B.C.	# of Holes	Hole Size
3"	4730	.25	5.625	3.562	4.875	8	.4375
3"	4745	.25	6.00	3.562	4.875	6	.4375
4"	B-4706	.25	9.00	4.00	7.00	6	.5625
4"	4707	.25	6.625	4.50	5.875	8	.4375
5"	B-4705	.25	10.00	5.00	7.875	6	.5625
6"	B-4704	.25	10.375	6.00	9.00	8	.5625
8"	B-4709	.25	13.50	8.00	11.625	8	.6875
10"	B-4703-S	.25	15.50	10.00	13.75	8	.6900
12"	B-4722	.25	18.875	12.00	16.750	12	.6880

**3" Square Check Valve Flange - Steel**

I.D.	Part #	B.C.	# of Holes	Hole Size	(A)	(B)	(C)
3.562	4725S	5.00	4	.5625	4.875	.250	3.50

# BTI's All in One Coupler

Cuts Cleaning Time and Inventory Costs by 66%



available for  
3" - 4" - 5" pipe

An Industry First.  
Metal S-clips provide continuous  
grounding from pipe to pipe.



Bolt On Tee  
Handle Option

## 2 Closure Configurations

Cam Handle and Bolt On Tee Handle

- All closure configurations available in 3" - 4" - 5" sizes

Industry's First  
Aluminum Die-cast  
Body & Composite  
Handle

The All-in-One Coupler is the industry's first lightweight aluminum die-cast coupler. It replaces all traditional plastic and aluminum coupler types: Grooved to Grooved, Grooved to Plain, and Plain to Plain. **A** The revolutionary All-in-One design incorporates eight S-clip gripper locations that "bite" into the pipe as air pressure increases and the pipes attempt to separate. The greater the pressure, the greater the grip, regardless of the type of pipe.

**B** The metal s-clip design also provides continuous grounding from pipe to pipe; no need to attach grounding straps or ground wires to connecting pipes.

## Strong, Lightweight, Corrosion Resistant and Cuts Cleaning Time and Inventory Costs

Our BlackMaxx All-in-One Coupler not only can take the place of three types of couplers, Grooved to Grooved, Grooved to Plain, and Plain to Plain, it is constructed of a composite fiber material that is lightweight, strong and impervious to corrosion.



All-in-One Couplers are positioned to grip whether they are used on plain or grooved pipes and eliminates the need to groove pipes or tees, reducing part costs.

The coupler offers two gasket configurations; split or solid, two closure options; Composite Cam Handle or a Bolt On Tee Handle and is available in 3, 4 and 5 inch sizes. The exclusive hinge design matches the curve of the gasket and is moved closer to the inside body to eliminate pinching of the gasket as in previous design couplers.

**C** The coupler's split gasket option, that seals the first time and every time it's installed, eliminates the hassle of getting the gasket on and off while pull tabs keep the gasket in position during installation, ensuring a secure seal. Suspended in the gasket material is an

FDA-approved lubricant that eliminates the need for additional lubrication. **D** An exclusive safety lock and pin prevents the coupler from opening while under pressure,

**E** while polymer bushings at all pivot points eliminate galling and seizing. Cleaning time and expense are now drastically reduced—simply align the pipes and quickly and easily slip on B.T.I.'s All-in-One Coupler.

## Groove to Groove Coupler Assemblies

4" Assembly



3" Assembly

Even though the innovative design of B.T.I.'s All-in-One Coupler far exceeds any existing model, the cost compares with traditional couplers.



1-800-841-5524

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400 Parkway Drive • Park Hills, MO 63601 • 573-518-0600 • Fax: 573-518-0551



**Bulk Tank, Inc.  
Coupler Parts Number List**

**All In One Coupler**

**BlackMAXX Composite Coupler**

<b>Part #</b>	<b>Part Description</b>	
BTC-BM-A1-4	4" A1 BlackMAXX Solid Gasket Coupler	Composite Cam Handle
BTC-BM-A1-4-B	4" A1 BlackMAXX Solid Gasket Coupler	Bolt on Tee Handle
BTC-BM-A1-4-BS	4" A1 BlackMAXX Split Gasket Coupler	Bolt on Tee Handle
BTC-BM-A1-4L	4" A1 BlackMAXX Solid Gasket Coupler	Composite Cam Handle with Lanyard
BTC-BM-A1-4S	4" A1 BlackMAXX Split Gasket Coupler	Composite Cam Handle
BTC-BM-A1-4SL	4" A1 BlackMAXX Split Gasket Coupler	Composite Cam Handle with Lanyard

**Aluminum Coupler**

<b>Part #</b>	<b>Part Description</b>	
BTC-A1-4	4" Coupler A1 with Solid Gasket	Composite Cam Handle
BTC-A1-4S	4" Coupler A1 with Split Gasket	Composite Cam Handle
BTC-A1-4-AH	4" Coupler A1 with Solid Gasket	Aluminum Cam Handle
BTC-A1-4L	4" Coupler A1 with Solid Gasket	Composite Cam Handle with Lanyard
BTC-A1-4SL	4" Coupler A1 with Split Gasket	Composite Cam Handle with Lanyard
BTC-A1-4S-AH	4" Coupler A1 with Split Gasket	Aluminum Cam Handle
BTC-A1-4-B	4" Coupler A1 with Solid Gasket	Bolt On Tee Handle
BTC-A1-4-BS	4" Coupler A1 with Split Gasket	Bolt On Tee Handle
BTC-A1-3	3" Coupler A1 with Solid Gasket	Aluminum Cam Handle
BTC-A1-3B	3" Coupler A1 with Solid Gasket	Bolt On Tee Handle
BTC-A1-5	5" Coupler A1 with Solid Gasket	Aluminum Cam Handle
BTC-A1-5B	5" Coupler A1 with Solid Gasket	Bolt On Tee Handle

**Aluminum Groove to Groove**

BTC-GG-4	4" Coupler – Groove to Groove	Composite Cam Handle
BTC-GG-4L	4" Coupler – Groove to Groove	Composite Cam Handle with Lanyard
BTC-GG-6	6" Coupler – Groove to Groove	Composite Cam Handle
BTC-66-6L	6" Coupler – Groove to Groove	Composite Cam Handle with Lanyard

**Aluminum Bolt Together Groove to Groove**

BTC-BT-3W	3" Coupler - Groove to Groove with White Gasket	Bolt Together
BTC-BT-3B	3" Coupler – Groove to Groove with Black Gasket	Bolt Together
BTC-BT-4W	4" Coupler - Groove to Groove with White Gasket	Bolt Together
BTC-BT-4B	4" Coupler - Groove to Groove with Black Gasket	Bolt Together

**Coupler Parts**

BTC-A1-GSKT-3	3" A1 Coupler Gasket Solid	BTC-HANDLE-4F	3" & 4" Composite
BTC-A1-GSKT-4	4" A1 Coupler Gasket Solid	BTC-HANDLE-5F	5" & 6" Composite
BTC-A1-GSKT-4S	4" A1 Coupler Gasket Split	BTC-HANDLE-4AF	3" & 4" Aluminum
BTC-A1-GSKT-5	5" A1 Coupler Gasket Solid	BTC-HANDLE-5AF	5" & 6" Aluminum
BTC-GG-GSKT-3	3" Groove to Groove Gasket	BTC-BOLT-ASSY	A1 T Handle
BTC-GG-B-GSKT-3	3" Groove to Groove Gasket Black	BTC-A1-SCLIP	A1 S Clips
BTC-GG-GSKT-4	4" Groove to Groove Gasket	BTC-HOOK-ASSY	Hook Assembly
BTC-GG-B-GSKT-4	4" Groove to Groove Gasket Black		
BTC-GG-GSKT-6	6" Groove to Groove Gasket		

# Finally, a Dry Bulk Filter Screen that doesn't restrict flow.

## BTI's Pneumatic Conveying Filter Screen

The problem with a conventional filter screen is flow restriction; a 4" diameter pipe can be restricted by 40%! You pay for a 4" pipe so why not get 4 inches of flow.

### Now you can.

By utilizing a 6 inch filter screen BTI has increased the open area by 40%. This means the filter screen will not restrict flow. The BTI Pneumatic Conveying Filter Screen is more compact than other models on the market today and the housings are one piece cast aluminum, making the assembly lighter and stronger. The aluminum quick coupler makes cleaning quick and simple. With our unique gasket that features a molded-in filter screen, the assembly will not operate properly if the screen is removed; the coupler will simply not hold pressure, ensuring the filter will always be used.

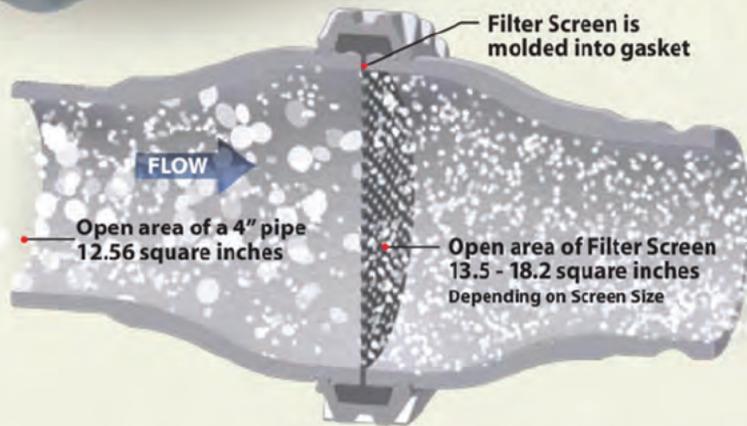
Also available in 5" and 6" sizes.



1-800-841-5524 • Purchase on line at [www.bulktankinc.com](http://www.bulktankinc.com)

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### FILTER SCREEN END OPTIONS

4" Male Pipe Threads



4" Male Cam Lock Fitting



4" Female Cam Lock Fitting





# BULK TANK, INC. PARTS LIST

400 PARKWAY DRIVE  
PARK HILLS, MO 63601  
www.bulktankinc.com

## PNEUMATIC CONVEYING FILTER SCREEN

PART #	PART DESCRIPTION
BTF-4X6-FF-5/16M	FEMALE X FEMALE ASSEMBLY 5/16"
BTF-4X6-FF-3/8M	FEMALE X FEMALE ASSEMBLY 3/8"
BTF-4X6-FF-7/16M	FEMALE X FEMALE ASSEMBLY 7/16"
BTF-4X6-FF-1SM	FEMALE X FEMALE ASSEMBLY 1"
BTF-4X6-MF-1/4M	MALE X FEMALE ASSEMBLY 1/4"
BTF-4X6-MF-5/16M	MALE X FEMALE ASSEMBLY 5/16"
BTF-4X6-MF-3/8M	MALE X FEMALE ASSEMBLY 3/8"
BTF-4X6-MF-7/16M	MALE X FEMALE ASSEMBLY 7/16"
BTF-4X6-MF-1SM	MALE X FEMALE ASSEMBLY 1"
BTF-4X6-MM-1/4M	MALE X MALE ASSEMBLY 1/4"
BTF-4X6-MM-5/16M	MALE X MALE ASSEMBLY 5/16"
BTF-4X6-MM-3/8M	MALE X MALE ASSEMBLY 3/8"
BTF-4X6-MM-7/16M	MALE X MALE ASSEMBLY 7/16"
BTF-4X6-MM-1SM	MALE X MALE ASSEMBLY 1"
BTF-4X6-TT-1/4M	THREAD X THREAD ASSEMBLY 1/4"
BTF-4X6-TT-5/16M	THREAD X THREAD ASSEMBLY 5/16"
BTF-4X6-TT-3/8M	THREAD X THREAD ASSEMBLY 3/8"
BTF-4X6-TT-7/16M	THREAD X THREAD ASSEMBLY 7/16"
BTF-4X6-TT-1SM	THREAD X THREAD ASSEMBLY 1"

\*Other configurations and screen sizes available upon request.

## PNEUMATIC CONVEYING FILTER SCREEN PARTS

PART #	PART DESCRIPTION
BTF-GSKT-6-1/4	GASKET SCREEN COMBO 1/4"
BTF-GSKT-6-5/16	GASKET SCREEN COMBO 5/16"
BTF-GSKT-6-3/8	GASKET SCREEN COMBO 3/8"
BTF-GSKT-6-7/16	GASKET SCREEN COMBO 7/16"
BTF-GSKT-6RC	GASKET SCREEN COMBO 1" SQUARE
BTF-4X6-M	4X6 REDUCER MALE FITTING
BTF-4X6-TH	4X6 REDUCER THREADED FITTING



Shown: Exploded View of BTF-4X6-MF-#

# Spin into clean filtration.

with BTI's SpinFlow Filter Systems

## BTI's SpinFlow FILTER/SILENCER

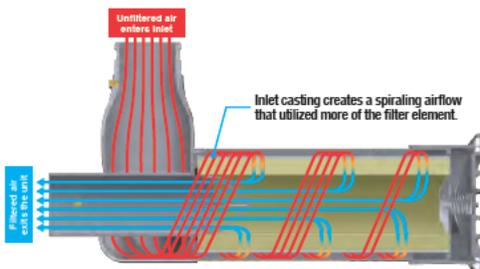
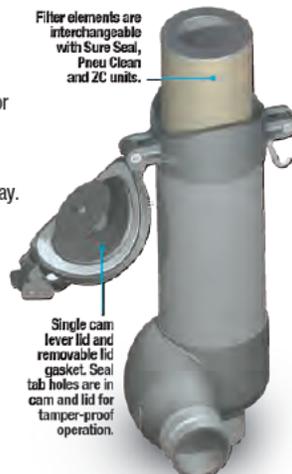
features a silencer built into the air inlet casting of the unit. The unique design of the air inlet chamber casting performs as a silencing and dampening system. This chamber reduces blower noise compared to existing systems on the market today. **The silencer is built in at no additional cost to you!**

All three SpinFlow Filter systems feature a unique design to reduce back pressure, which equals a reduction in heat build up. Each unit starts to spin the air as it enters the air inlet. The air is directed up the housing, utilizing the complete filter element smoothly and evenly with less back pressure and pressure drop, saving you money by making your elements last longer than any unit on the market. All of BTI's SpinFlow Filter Systems can be mounted anywhere on any trailer with BTI's stainless steel mounting bands.



### FEATURES AND BENEFITS OF BTI'S SPINFLOW FILTER SYSTEMS

- Smooth, unobstructed piping design for less back pressure and heat build-up
- Increased air spin of inlet airflow allows for more filter surface area to be utilized and results in longer element life than any filter on the market today.
- Stronger, more robust design to meet the demands of the tank trailer industry.
- Lightweight models, more than 5 lbs lighter than current models.
- Easy front opening access door with removable gasket for easy cleaning and inspection of element and unit.
- Seal tab holes are built-in to lid and latch assembly for tamper-proof operation.
- Auto spring-loaded element tensioner is built into access door, which eliminates the need for adjusting.
- Available in multiple inlet and outlet configurations: threaded, grooved, cam fitting and plain.
- Standard HD element with top-mounted temperature indicator engineered with spiral-welded core that is welded to both end caps for added strength.
- Optional FDA compliant Teflon membrane for easy cleaning.
- Patented Exterior Guide System that eliminates contamination from internal element guide rods used in trailer air filters on the market today.



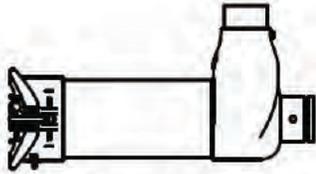
1-800-841-5524  
www.BulkTankInc.com

Patent Pending

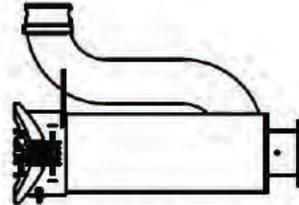
As with all of our products, BTI unconditionally guarantees this system will outperform any similar products on the market today.



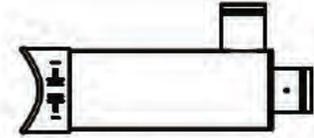
## BTI Filter System



Spin Flow



Front Mount



Standard Lightweight

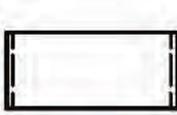
Part #	Assembly Description
BTA-CT-XXXX	Spin Flow Filter Assembly w/ Standard Element
BTA-CT-XXXX-FG	Spin Flow Filter Assembly w/ Food Grade Element
BTA-FM-XXXX	Front Mount Filter Assembly w/ Standard Element
BTA-FM-XXXX-FG	Front Mount Filter Assembly w/ Good Grade Element
BTA-SL-XXXX	Standard Light Weight Assembly w/ Standard Element
BTA-SL-XXXX-FG	Standard Light Weight Assembly w/ Food Grade Element

### Standard inlet and outlet configurations

4" Male NPT (MT) 4" Grooved (GR)  
 4" Plain (PL) 4" Male Cam (CL)

### Example part Number

BTA-CT-MTPL 4  
 4" NPT Inlet 4" Plain outlet



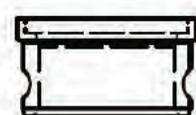
4" Plain (PL)



4" Grooved (GR)



4" Male NPT (MT)

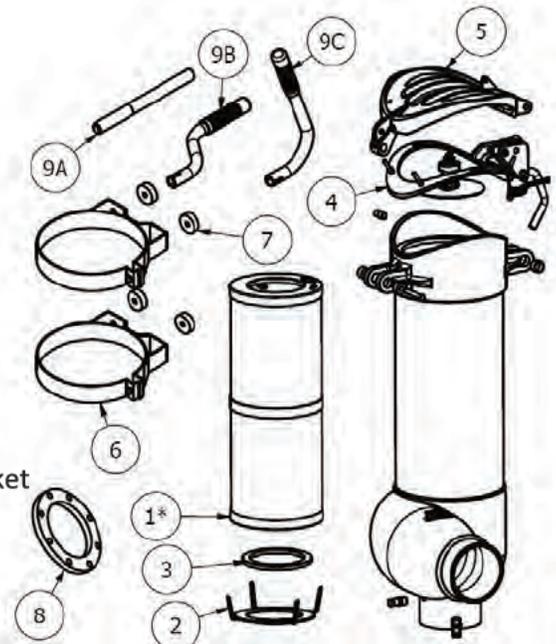


4" Cam Lock (CL)

\*Custom Inlet and Outlet configurations are available, consult BTI for part number information

## BTI Filter System Replacement Parts

Part #	Description
1A	BTA-PEL16SS Standard Filter Element
1B	BTA-PEL16SS-FG Food Grade Filter Element
2	BTA-FGUIDE SS Filter Guide
3	BTA-GSKT-1/2 Filter Element Gasket
4	BTA-810-GASKET Door Gasket Hi Temp Silicone
5	BTA-DOOR-F Door Assembly
6	BTA-BRK SS Air Filter Mounting Bracket
7	BTA-VD-GSKT Vibration Damper Mounting Gasket
8	BTA-FLG GSKT 4" TTMA Hi Temp Flange Gasket
9A	BT-EO-HANDLE-A Straight Aluminum Handle
9B	BD-810-HANDLE Split Curved Handle
9C	BTA-FF-HANDLE Split J Handle

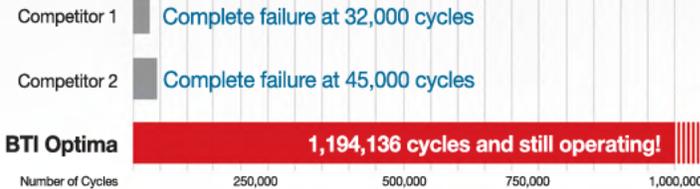
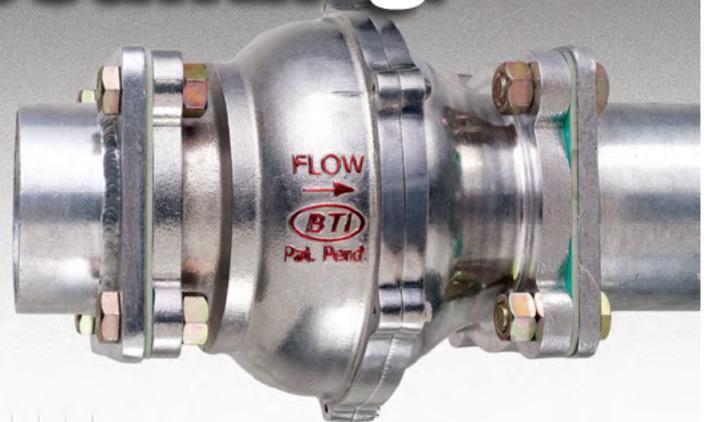




# 1,000,000 cycles and counting.

**OPTIMA**  
CHECK VALVES BY B.T.I.

At BTI we ran a test on our Optima Check Valve to prove that it truly "Lasts Longer and Works Better" than any check valve on the market. We constructed a machine to cycle check valves under identical circumstances. We tested two of our competitors' check valves and Optima. Neither of the competitors' models lasted over 28,000 cycles before partial failure and total failure before 50,000. But we thought, what the heck, let's keep going. Optima hit over one million cycles and was still functioning as designed! So on top of increased air flow and lighter weight, Optima has been proven to last over 20 times longer than the competition. **That's American ingenuity, that's BTI.**



**Coil Spring** - Tested to provide over twice the cycling life as a conventional torsion spring.

**Spring Housing** - Protects your load from being contaminated from a broken spring.

**Fewer Internal Parts** - Fewer parts means lighter weight and less risk of contamination.

**Bell Housing Design** - Provides more open area which results in less back pressure.

**Guide Bushings** - Bushing stops poppet from opening too far and choking flow or damaging spring.

**Flat face poppet Valve** - Allows more open area for flow and less back pressure. Self-sealing gasket design.

Available in 2, 3 or 4 inch sizes.

## Available in 9 Configurations



Flat face poppet design now available in 2, 3 or 4 inch sizes.



All BTI products are guaranteed to: **LAST LONGER. WORK BETTER.**

**1-800-841-5524 • www.bulktankinc.com**

**www.bulktankinc.com**



## Optima Check Valves

### Part# Part Description

#### 2" Check Valve Assembly Silicone Seal

BTCV2012 Without Spring  
BTCV2022 With Spring

#### 3" Check Valve Assembly Silicone Seal

BTCV3012 Without Spring  
BTCV3022 With Spring

#### 3" Check Valve NPT Threaded Assembly Silicone Seal

BTCV3012T NPT Threaded / Without Spring  
BTCV3022T NPT Threaded / With Spring

#### 3" Check Valve Assembly Silicone Seal, 8 Bolt TTMA Flange

BTCV3022FLG8 3" Check Valve Assembly, 8 Bolt TTMA Flanges, With Spring

#### 3" Check Valve, Groove by Groove Assembly Silicone Seal

BTCV3012GG Without Spring  
BTCV3022GG With Spring

#### 3" Blower Check Valve Assembly

BTCV3090 3" Blower Check Valve Assembly With Spring

#### 3" Blower Check Valve Assembly

BTCV3090MA 4" TTMA Inlet, 3" Male Cam Outlet

#### 4" Check Valve Assembly Silicone Seal

BTCV4012 Without Spring  
BTCV4022 With Spring

#### 4" Blower Check Valve Assembly

BTCV4090 4" Blower Check Valve Assembly With Spring

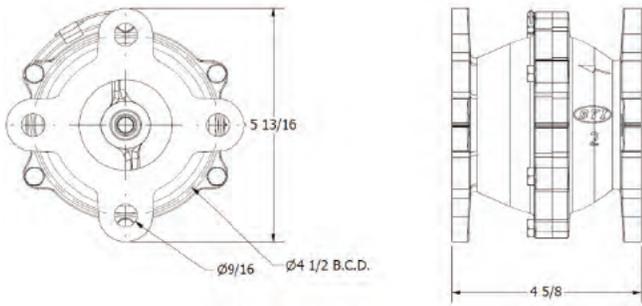
#### 4" Blower Check Valve Assembly With Cam Lock

BTCV4090MCL3 4" Blower Check Valve Assembly With 3" Cam Lock  
BTCV4090MCL4 4" Blower Check Valve Assembly With 4" Cam Lock  
BTCV4090MCL3S 4" Blower Check Valve Assembly With 3" Cam Lock W/Spring  
BTCV4090MCL4S 4" Blower Check Valve Assembly With 4" Cam Lock W/Spring

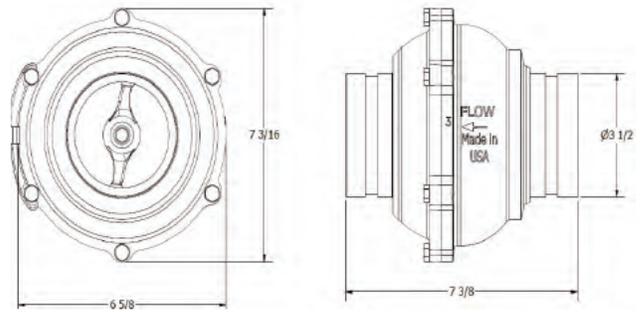
**\*SILICONE SEAL TEMPERATURE RANGE 0° TO 400°F\***

# BTI 2 & 3 inch Check Valve Drawings

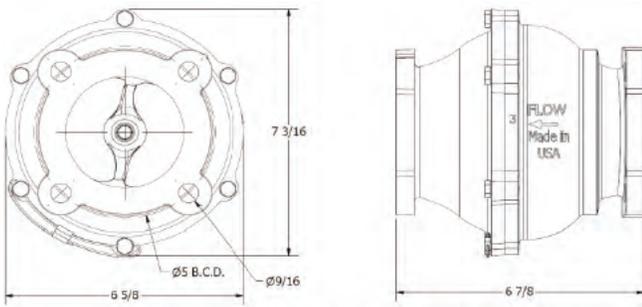
**BTCV2022**



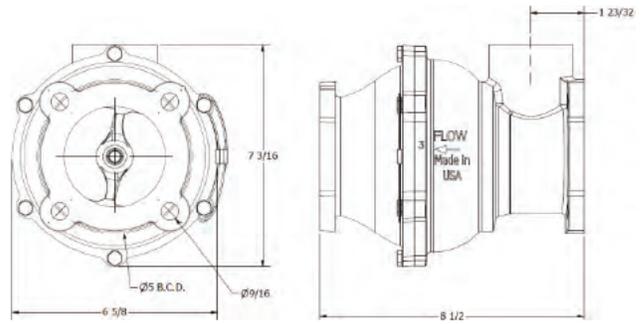
**BTCV3022G**



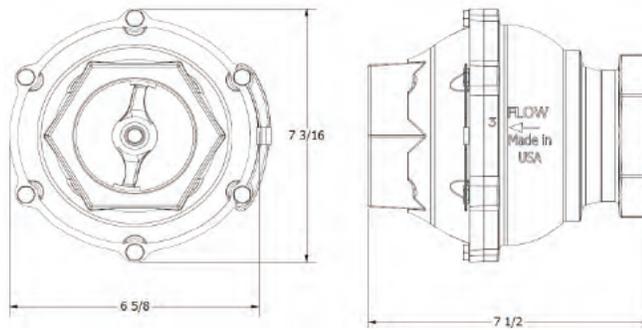
**BTCV3022**



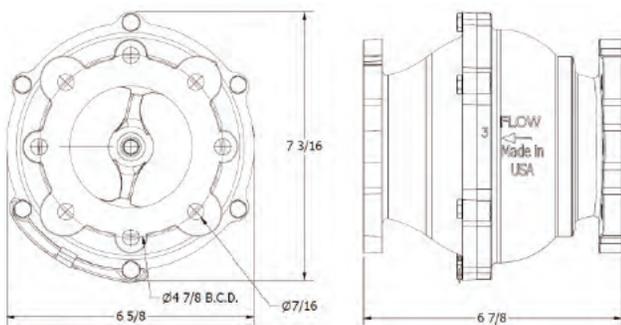
**BTCV3090**



**BTCV3022T**

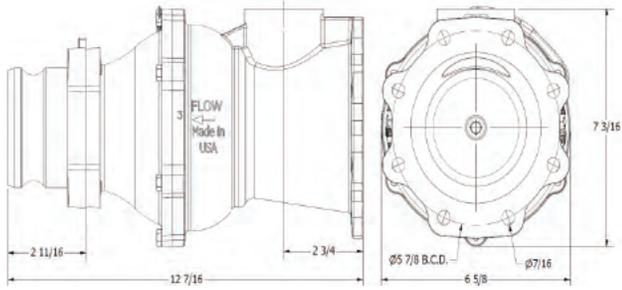


**BTCV3022FLG8**

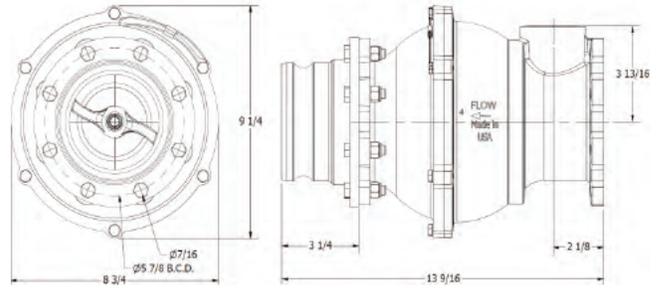


# BTI 3" and 4" Check Valve Drawings

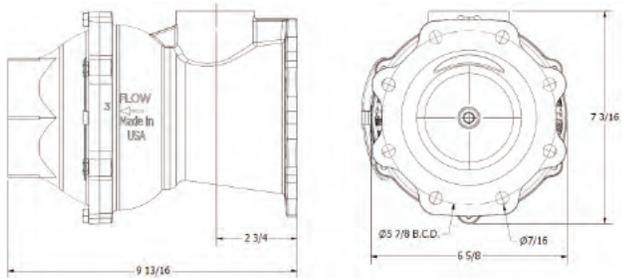
**BTCV3090MA**



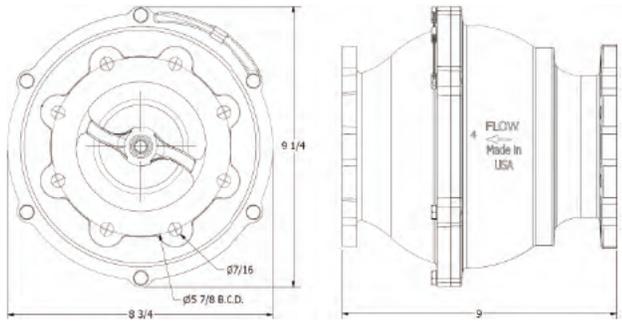
**BTCV4090MCL4S**



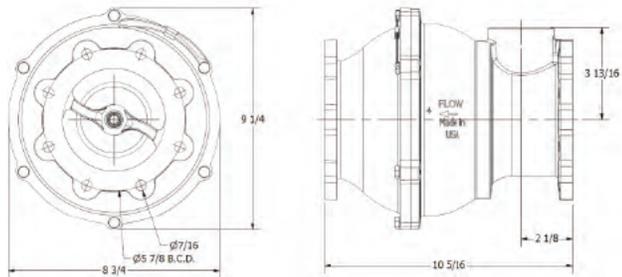
**BTCV3090FT**



**BTCV4022**

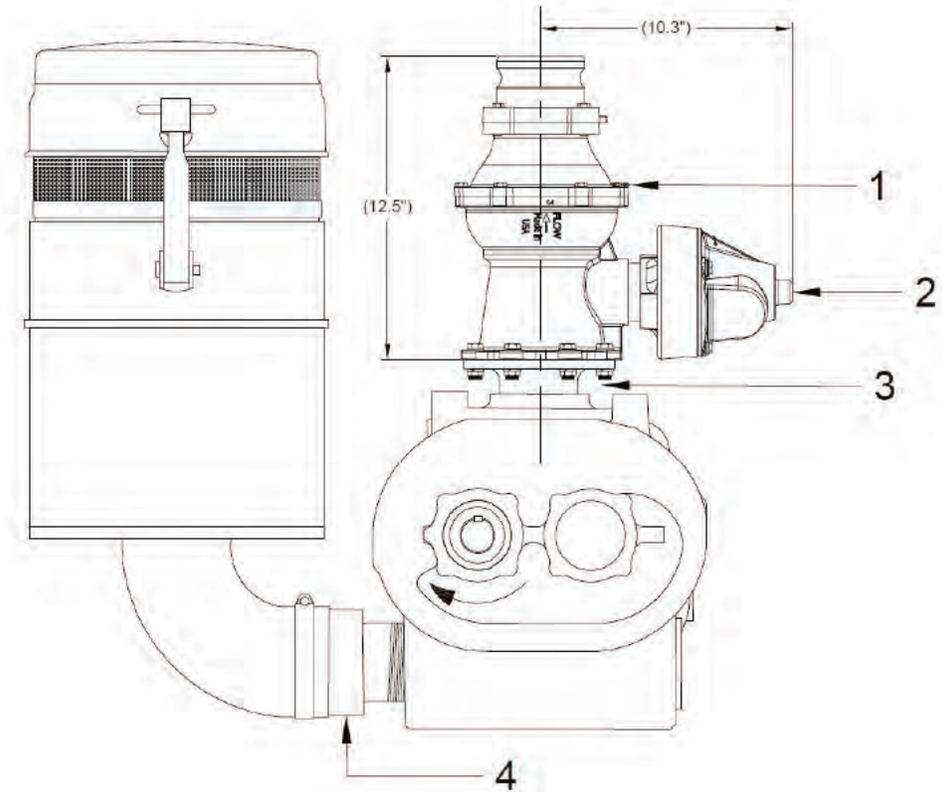


**BTCV4090**





**BTI Truck Blower Accessories**



Item #	Part #	Description
1	BTCV3090MA	3" Check Valve 4" TTMA inlet 3" Male Cam outlet W/ 2" port
1	BTCV4090MCL4S	4" Check Valve 4" TTMA inlet 4" Male Cam outlet W/ 2" port
2	BTAR-2450-18-B	2" Blower Relief valve Male NPT 18 psi
2	BTAR-2450-20-B	2" Blower Relief valve Male NPT 20 psi
3	43CRFF-4MT	Flange Adaptor 3" NPT X 4" TTMA 4" Tall Steel
3	43CRFF-6MT	Flange Adaptor 3" NPT X 4" TTMA 6" Tall Steel
3	4FF-6MT	Flange Adaptor 4" NPT X 4" TTMA 6" Tall Steel
	10233	4" TTMA non asbestos gasket
4	43ADPT	Inlet Adaptor 4" OD X 3" Male NPT Aluminum
4	44ADPT	Inlet Adaptor 4" OD X 4" Male NPT Aluminum
	GD-CDL9-18-B	Blower Discharge Kit, includes BTCV3090MA, BTAR-2450-18-B, 43CRFF-6MT, Flange Gasket, Dust Cap and lanyard
	GD-CDL9-20-B	Blower Discharge Kit, includes BTCV3090MA, BTAR-2450-20-B, 43CRFF-6MT, Flange Gasket, Dust Cap and lanyard
	GD-CDL12-18-B	Blower Discharge Kit, includes BTCV3090MA, BTAR-2450-18-B, 44CRFF-6MT, Flange Gasket, Dust Cap and lanyard



**Bulk Tank, Inc.**  
**Parts List**

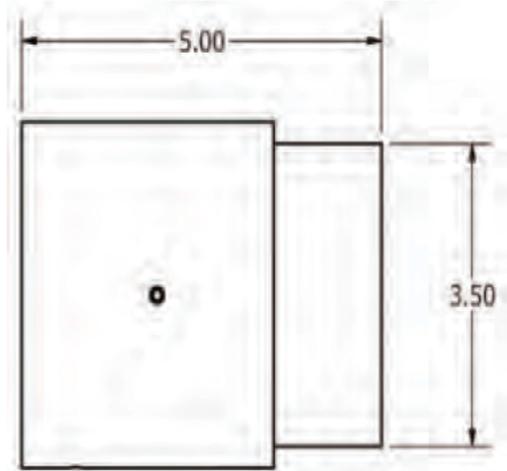
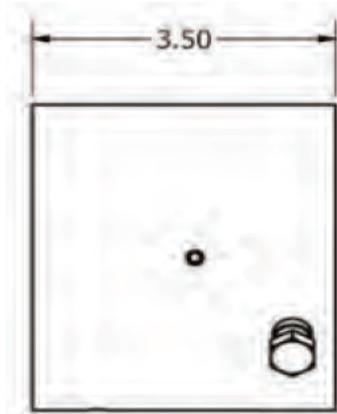
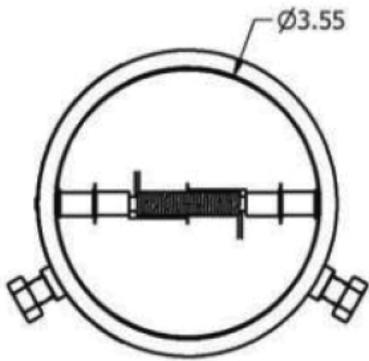
**Critter Stopper**

**Part  
Number:**

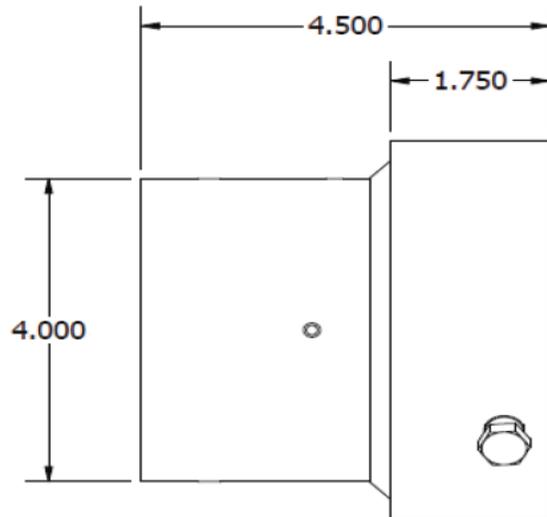
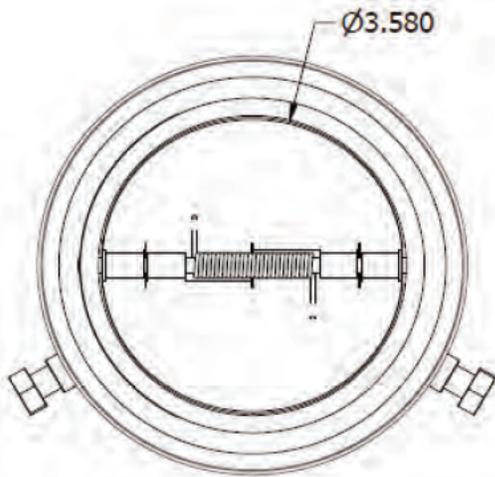
**Part  
Description:**

CS-3A  
CS-4A

3" Aluminum, Dual Flap Critter Stopper, Blowdown Line  
4" Aluminum, Dual Flap Critter Stopper, Blowdown Line



**CS-3A**



**CS-4A**

# DON'T LET THIS BE YOU.



**B.T.I.**  
**AccuSafe**  
PRESSURE RELIEF VALVE

## New and improved design for accurate and safe operation!

AccuSafe Pressure Relief Valve (PRV) derives its name from its ability to function accurately and safely in a myriad of situations. The AccuSafe PRV is an all-in-one solution. Typically, relief valves were constructed for a specific task, blower or tank installations, high or low temperatures and food grade or non-food grade. The AccuSafe PRV is constructed for use in all these situations.

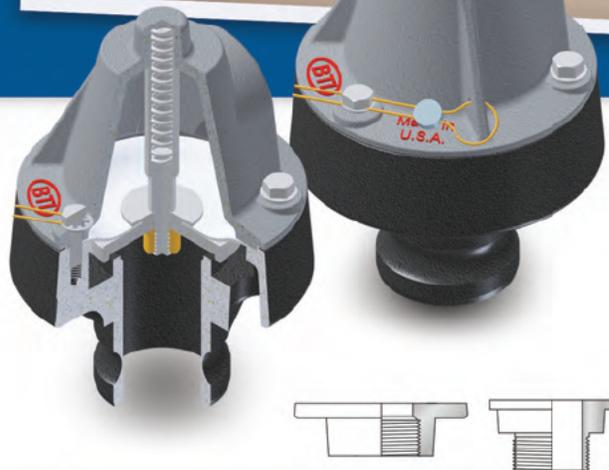
An industry first Certificate of Compliance, generated through a digital data acquisition system is included with each valve, providing BTI customers a guarantee of optimal performance.

BTI's AccuSafe Pressure Relief Valve is available in a 2-inch size and features a stainless steel poppet, stainless steel spring guide tubes, and tamper-proof seal to ensure the operator cannot change the specified pressure setting.

100% American-made, the new AccuSafe Pressure Relief Valve is available for immediate shipment. Bulk Tank, Inc. unconditionally guarantees this product will outperform any similar product on the market today.

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Patent pending. ©2015 Bulk Tank Inc.



### Key product enhancements include:

- High precision wound and surface ground spring
- Machined top and bottom stainless steel spring guide tubes to ensure consistent function and repeatability
- Unique poppet and spring design allows for smooth and consistent air flow, eliminating "air shutter" found with standard poppet designs which causes fluctuating air pressure
- Precision machined stainless steel poppet with optimized huddle chamber
- One-piece FDA-Compliant High-Temperature Diaphragm to protect and eliminate contamination to the working components from dirt, water and ice
- 3 Connection Options
  - Male 2" Cam Fitting – Hard anodized to protect and reduce metal to metal chaffing between cam to groove
  - Male 2" NPT Threads – Hard anodized to protect and extend thread life
  - Female 2" NPT Threads – Hard anodized to protect and extend thread life
- Multiple Configurations Available
  - Non-Adjustable, Manual-Release and Adjustable
- Tamper-Proof Seal



**Bulk Tank, Inc.  
Parts List**

**ACCU Safe Pressure Relief Valve (Non-Adjustable or Manual Release)**

**Order Instructions:**

Please add the Pounds per Square Inch (PSI) 15, 18, 20, 25 behind the part number shown below. Once the PSI has been indicated please add a "B" to indicate Blower or "T" to indicate Tank.

Also please indicate non adjustable or manual release.

Example: BTAR-2150-MR15B (2" female NPT thread, 15 PSI manual release valve for Blower)

<b><u>Part #</u></b>	<b><u>Part Description</u></b>
BTAR-2150-	2" Female NPT Thread, Manual Release Valve, White FDA Diaphragm
BTAR-2250-	2" Female NPT Thread, Non-Adjustable Relief Valve, White FDA Diaphragm
BTAR-2350-	2" Male NPT Thread, Manual Release Valve, White FDA Diaphragm
BTAR-2450-	2" Male NPT Thread, Non-Adjustable Relief Valve, White FDA Diaphragm
BTAR-2550-	2" Male Quick Coupler, Manual Release Valve, White FDA Diaphragm
BTAR-2650-	2" Male Quick Coupler, Non-Adjustable Relief Valve, White FDA Diaphragm

**ACCU Safe Pressure Relief Valve (Adjustable)**

**Order Instructions:**

Please add the Pounds per Square Inch (PSI) 15, 18, 20, 25 behind the part number shown below. Once the PSI has been indicated please add a "B" to indicate Blower or "T" to indicate Tank.

Example: BTAR-2150-15-B (2" female NPT thread, 15 PSI adjustable relief valve for Blower)

<b><u>Part #</u></b>	<b><u>Part Description</u></b>
BTAR-2150-	2" Female NPT Thread, Adjustable Relief Valve, White FDA Diaphragm
BTAR-2350-	2" Male NPT Thread, Adjustable Relief Valve, White FDA Diaphragm
BTAR-2550-	2" Male Quick Coupler, Adjustable Relief Valve, White FDA Diaphragm

**Valve Adjustment**

**CAUTION:** BTI AccuSafe Pressure Relief Valves should be adjusted no more than +3psi from the factory supplied setting. Adjustment in excess of +3psi may result in a failure to vent or a significant loss of venting.

# One Pressure Relief Valve that does it all.

Proudly made in the  USA



**Tank Trailers to Blower Units  
High to Low Temperatures  
Food Grade to Frac Sand**

**B.T.I. All-in-ONE**  
Pressure Relief Valve



BTI is now offering a pressure valve that does it all. Instead of buying separate valves for tank or blower, high or low temperatures, food grade or non-food grade, the All-in-One Pressure Relief Valve can take care of all your needs. Just specify the pressure you need and let us know if it's for the tank or the blower, so we can make the proper pressure adjustment, and your good to go!

**Available in:**

- 2" or 3" sizes.
- Adjustable, fixed, or manual release
- Pressure ratings of 5- 30 PSI.
- Male cam lock fitting, male anodized threads and female anodized threads.

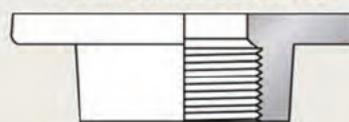
The All-in-One features an FDA approved seat and tamper proof seal to ensure that the pressure setting specified is not changed by the operator.



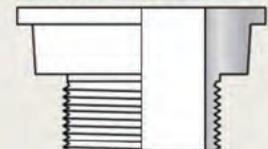
All BTI products are guaranteed to:  
**LAST LONGER. WORK BETTER.**

**Also available with:**

Female Anodized Thread



Male Anodized Thread



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400 Parkway Drive • Park Hills, MO 63601

573-518-0600 • Fax: 573-518-0551

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**Bulk Tank, Inc.  
Parts List**

**All In One Relief Valve (Non-Adjustable or Manual Release)**

Please add the Pounds per Square Inch (PSI) 15, 18, 20, 25 behind the part number shown below. Once the PSI has been indicated please add a B to indicate Blower or T for Tank.

Indicate non adjustable or manual release.

Example: BTRV-2150-MR15B (2" female pipe thread, 15 PSI manual relief valve for blower)

<b>Part #</b>	<b>Part Description</b>
BTRV-2150-	2" Female Pipe Thread, Manual Relief Valve, White FDA Gasket
BTRV-2250-	2" Female Pipe Thread, Non-Adjustable Relief Valve, White FDA Gasket
BTRV-2350-	2" Male Pipe Thread, Manual Relief Valve, White FDA Gasket
BTRV-2450-	2" Male Pipe Thread, Non-Adjustable Relief Valve, White FDA Gasket
BTRV-2550-	2" Male Quick Coupler, Manual Relief Valve, White FDA Gasket
BTRV-2650-	2" Male Quick Coupler, Non-Adjustable Relief Valve, White FDA Gasket

**All In One Relief Valve (Adjustable)**

Please add the Pounds per Square Inch (PSI) 15, 18, 20, 25 behind the part number shown below. Once the PSI has been indicated please add a B to indicate Blower or T for Tank.

Example: BTRV-2150-15-B (2" female pipe thread, 15 PSI adjustable relief valve for blower)

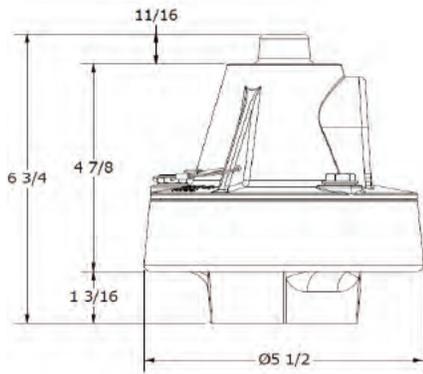
<b>Part #</b>	<b>Part Description</b>
BTRV-2150-	2" Female Pipe Thread, Adjustable Relief Valve, White FDA Gasket
BTRV-2350-	2" Male Pipe Thread, Adjustable Relief Valve, White FDA Gasket
BTRV-2550-	2" Male Quick Coupler, Adjustable Relief Valve, White FDA Gasket

**Vacuum Relief Valve**

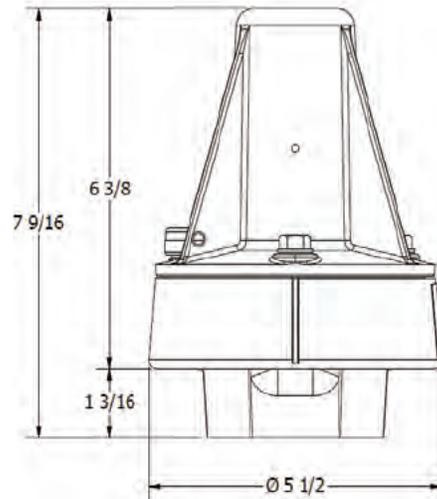
<b>Part #</b>	<b>Part Description</b>
BTVB-2000-15	2" 15in Vacuum Relief VLV Assy

## BTI Relief Valve Drawings

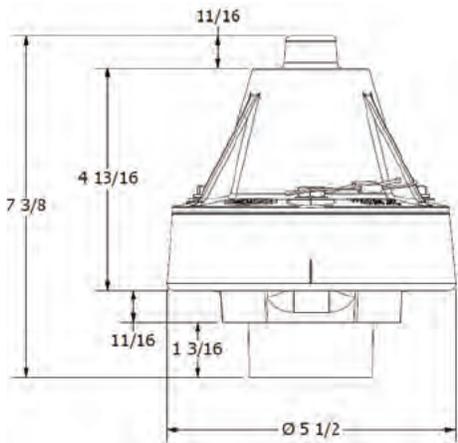
BTAR-2250



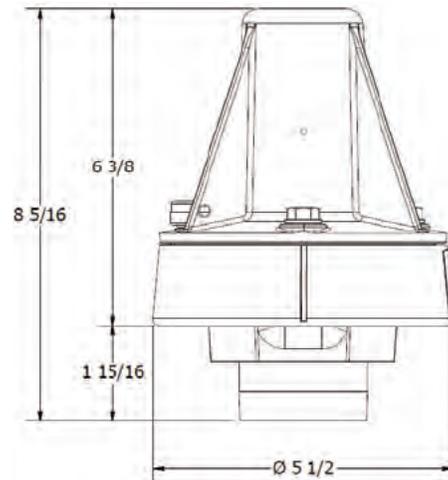
BTRV-2250



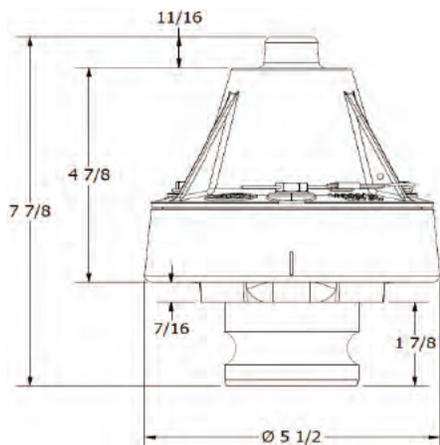
BTAR-2450



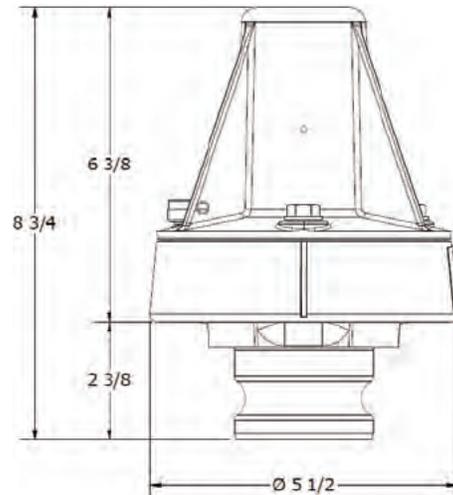
BTRV-2450



BTAR-2650

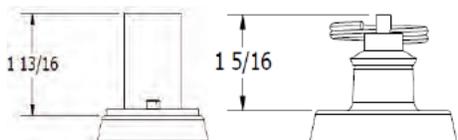


BTRV-2650



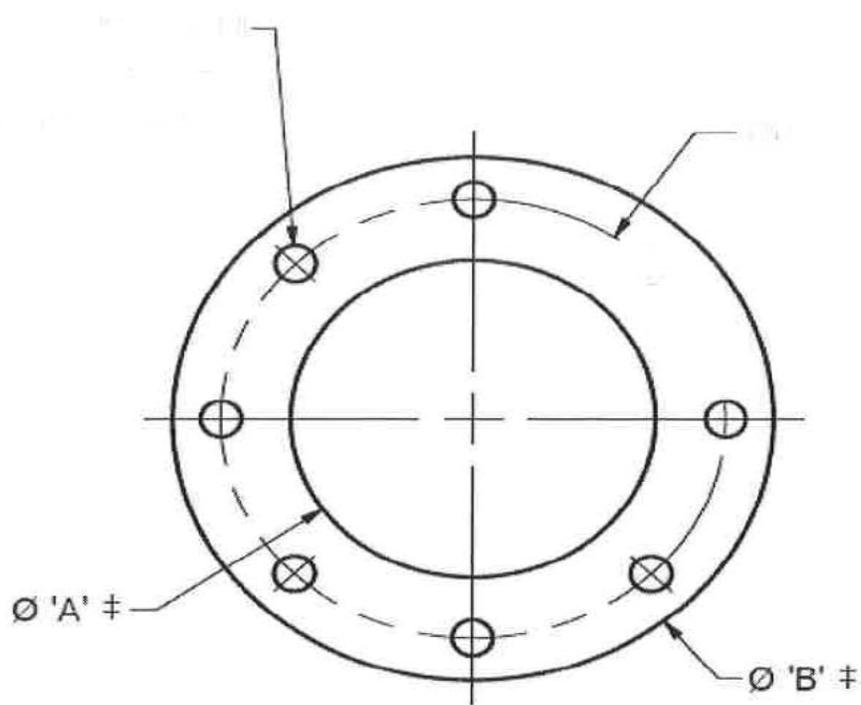
Adjustable

Manual





## BTI Sight Glass



Size	Part#	Thickness	O.D.	I.D.	B.C.	# of Holes	Hole Size	Material
4"	BT4SGA-8-NB	1.5	7.8	4.0	5.88	8	.47	Clear Acrylic
5"	BT5SGA-NB	1.75	10.0	5.19	7.88	6	.56	Clear Acrylic
6"	BT6SGA-NB	1.75	11.0	6.19	9.0	8	.56	Clear Acrylic



# Trailer Mounted Air-to-Air Cooler

The ultimate protection for heat sensitive loads



The Bulk Tank Inc. Trailer Mounted Air-to-Air Cooler was developed and designed for pneumatic dry bulk tank trailers in the transport of heat-sensitive products such as sugar, plastic pellets, and resins. In the pneumatic unloading process, compressed air is the conveying medium. When air is compressed it generates heat. The higher the pressure the greater the temperature and temperatures up to 350°F, in a typical operation, can be hazardous to the product load.

### How Does Hot Air Contaminate Dry Bulk Shipments?

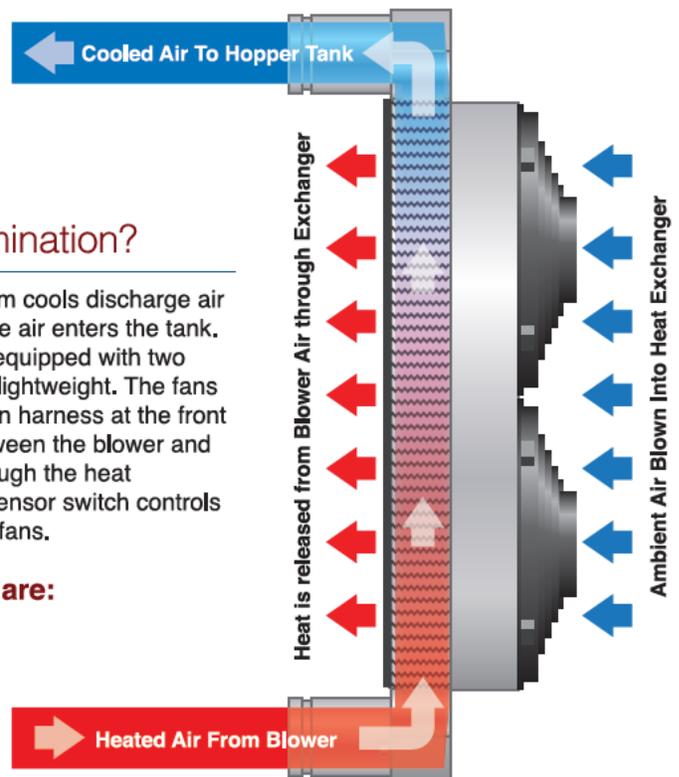
As the pressure of the pneumatically conveying air rises, the temperature of the product also rises causing plastic pellets to melt and sugar to caramelize. The composition of the pellets sticks together or breaks down into "angel hair", rendering them useless. Plastics, sugar and other heat sensitive products melt and coat the tank hoppers, outlets and the discharge line, requiring lengthy and expensive clean up procedures.

### How Does the Cooler Eliminate Contamination?

The solution: The BTI Trailer Mounted Air-to-Air cooler system cools discharge air to approximately less than half of inlet temperature before the air enters the tank. The cooler's heat exchanger is rated for 1100 SCFM and is equipped with two electric fans. Constructed out of aluminum, it is durable and lightweight. The fans are powered by the tractor's electrical system, using the 7-pin harness at the front of the trailer. The cooler is installed in the air supply line between the blower and the hopper tank, allowing the conveying air to be routed through the heat exchanger, and cooled by the fans. An automatic pressure sensor switch controls the fans, eliminating possible operator failure to activate the fans.

### Advantages of the BTI Trailer Air-to-Air Cooler are:

- Provides cooled air to the dry bulk material.
- Cooler is automatic - no special procedure is required.
- Virtually maintenance free.
- Requires no external water, air, or electric source.
- Victaulic groove on the piping stub coming from the cooler, intake and discharge ports.
- Compact, light, inexpensive, and does not affect the size of the trailer.



**1-800-841-5524**

400 Parkway Drive • Park Hills, MO 63601

573-518-0600 • Fax: 573-518-0551

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# Trailer Mounted Air-to-Air Cooler

The ultimate protection for heat sensitive loads

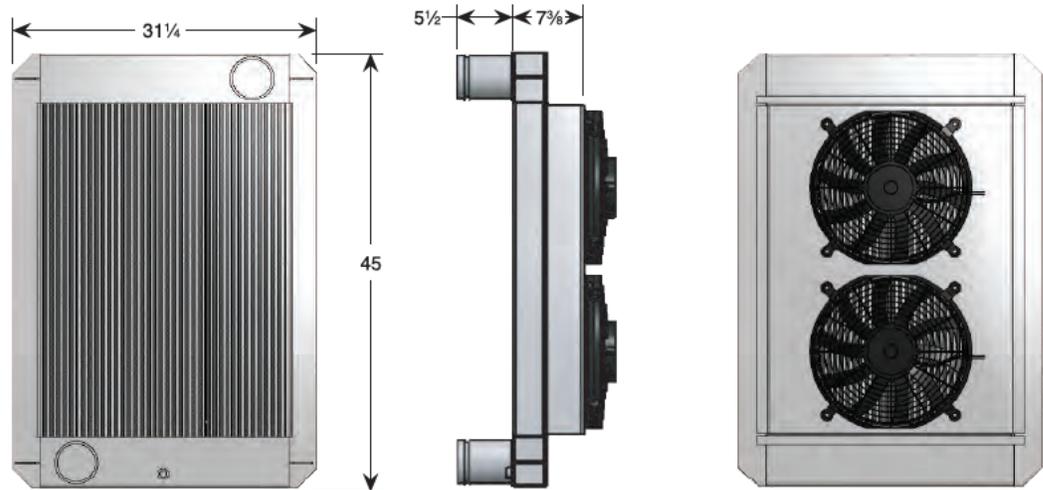
## Air Coolers

We have two different cooler configurations to suit your needs. The 4-inch inlet and outlet tubes can be located on the same side as the fans, or on the opposite side of the fans.

### Cooler 1:

Standard air cooler, with 4-inch intake and discharge nozzles on side opposite fans.

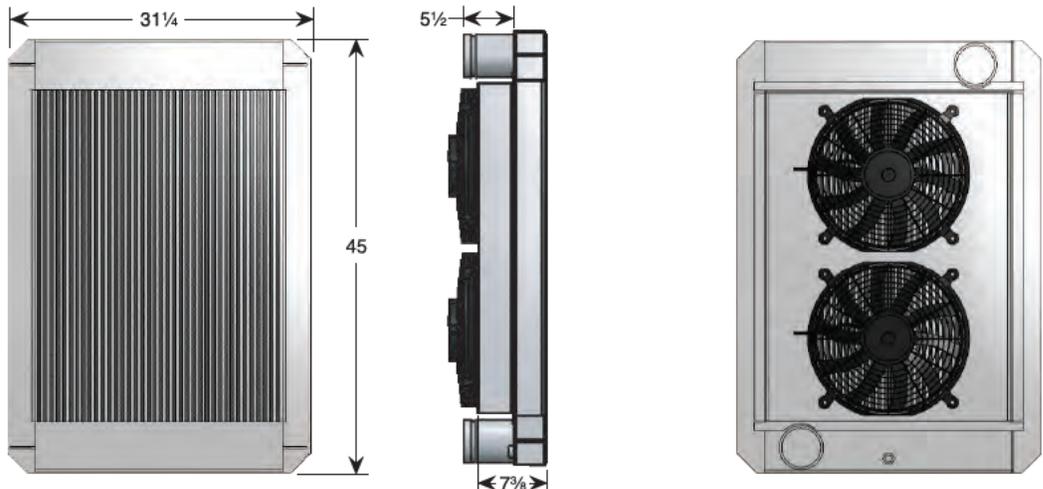
Part Number:  
251-058-000



### Cooler 2:

Optional air cooler, with 4-inch intake and discharge nozzles same side as fans.

Part Number:  
251-059-000



### Ordering an Air-to-air Cooler:

This air-to-air cooler is available as a universal kit that can install to any pneumatic dry bulk tank, regardless of manufacturer. This kit includes the heat exchanger, electric fans, insulating bushings, fan switch, and thermometers.

Please contact Bulk Tank Inc. for information on our cooler kits by calling 1-800-841-5524. Bulk Tank Inc. is an ISO 9001 certified, nationally known company specializing in the manufacture of innovative parts for the pneumatic tank trailer industry.

Part Number	Qty.	Description
BAC-FANBRKT	2	90° Mounting Brkt For Fan
BAC-FAN	2	16" Axial Fan, 12 Volt, Pusher
BAC-PRESWITCH	1	Press Switch, 3-5psi Activated
BAC-TEMGAUGE	2	Temp Gauge, Range 50/300
BAC-BUSHING	6	Rubber Shock Bushing

**1-800-841-5524**

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