



AMERICAN MADE
Liquid Solutions



All BTI products are guaranteed to: Last Longer. Work Better.



Extreme Corrosion-Resistant Fertilizer Valve



Composite Butterfly Valves Guaranteed not to corrode or seize

- Stainless Steel Disc
- EPDM, Viton and other seat materials available upon request
- Corrosion-Resistant Composite Housing
- Perfect for Liquid Fertilizer



BTI's BlackMaxx Fertilizer valve with Stainless Disc is the perfect solution for corrosive liquid chemicals and fertilizer service. The competition sells aluminum bodied valves with stainless discs that seize up from the corrosive chemicals like fertilizer. Our BlackMaxx Fertilizer valve is Guaranteed not to corrode or seize up.

Consult factory for other chemical compatibility.

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Available sizes 2" thru 6" with corrosion resistant composite handles.

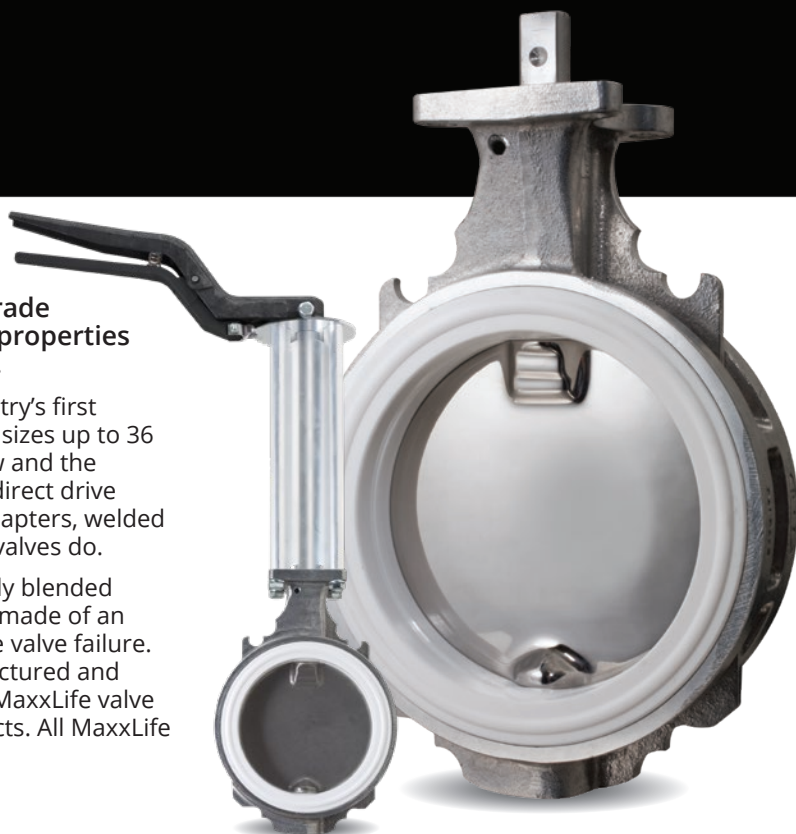
MaxxLIFE

Transportation Butterfly Valves from BTI

MaxxLIFE™ 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.

B.T.I.'s MaxxLife Transportation Butterfly Valve is the industry's first butterfly valve to use an all-in-one valve stem, available in sizes up to 36 inches. The MaxxLife Butterfly Valve offers the highest flow and the lightest, strongest body on the market today. The 1-piece direct drive stem-to-disc connection doesn't require any connecting adapters, welded parts or hardware as all other industry standard butterfly valves do.

The MaxxLife Butterfly Valve features an all-in-one, specially blended valve seat that can be used for all applications. The seat is made of an abrasion-resistant rubber that will not turn hard and cause valve failure. And, because the MaxxLife Butterfly Valve is 100% manufactured and assembled in the U.S.A, all components that make up the MaxxLife valve seat are in compliance with FDA standards for food products. All MaxxLife valve seats meet CFR117.2600.



BTI Liquid Tank Valves Food Grade to Fertilizer

Part Number Ordering Information Always Consult Factory For Valve Application

Size & Body XX	-	Disc XXX	-	Seat XXX
2B 2" Composite		600 Ductile Iron		530 Black Buna N
3B 3" Composite		790 Stainless 304		531 White Buna N FDA
4B 4" Composite		828 Stainless 316		515 Black EPDM
2 2" Aluminum				540 FKM Black Viton
3 3" Aluminum				500 Black MaxxLife Silicone
4 4" Aluminum				501 White MaxxLife Silicone FDA

Example Part Numbers and Descriptions for 3" Valves

Part #	Body	Disc	Seat
3B-790-515	3" Composite Body	304 Stainless Disc	Black EPDM Seat
3B-790-540	3" Composite Body	304 Stainless Disc	Black Viton
3B-790-531	3" Composite Body	304 Stainless Disc	White Buna N Seat
3B-790-501	3" Composite Body	304 Stainless Disc	White Maxx Life Seat
3-828-515	3" Aluminum Body	316 Stainless Disc	Black EPDM Seat
3-828-540	3" Aluminum Body	316 Stainless Disc	Black Viton
3-828-531	3" Aluminum Body	316 Stainless Disc	White Buna N Seat
3-828-501	3" Aluminum Body	316 Stainless Disc	White Maxx Life Seat

Popular Handles fits 2 & 3 inch valves remove insert for 4,5 & 6 inch valves

Part #	Type	Suffix to add handle to a valve
BM600-46-10	Blackmaxx Straight Composite 10 position	SBM10
BM600-46-5	Blackmaxx Straight Composite 5 position	SBM5
BM700-46-10	Blackmaxx Curved Composite 10 position	BM10
BM700-46-5	Blackmaxx Curved Composite 5 position	BM5
HD600-207-4610N	HD Straight Alu 10 position Composite Plate	SHD10N
HD600-207-46-5N	HD Straight Alu 5 position Composite Plate	SHD5N
HD700-207-4610N	HD Curved Alu 10 position Composite Plate	HD10N
HD700-207-46-5N	HD Curved Alu 5 position Composite Plate	HD5N
HD600-207-46-10	HD Straight Alu 10 position Stainless Plate	SHD10
HD700-207-46-10	HD Curved Alu 10 position Stainless Plate	HD10


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 100% Made in U.S.A.

Pvseries

VALVES FOR THE PETROLEUM INDUSTRY

**Strong, lightweight
and priced to compete.**



Standard
Aluminum
Pv Series

**Molded seat with multiple o-rings
NO GASKETS REQUIRED**

**E-Coat valve body
Prevents corrosion**



Compact
Aluminum
Pv Series

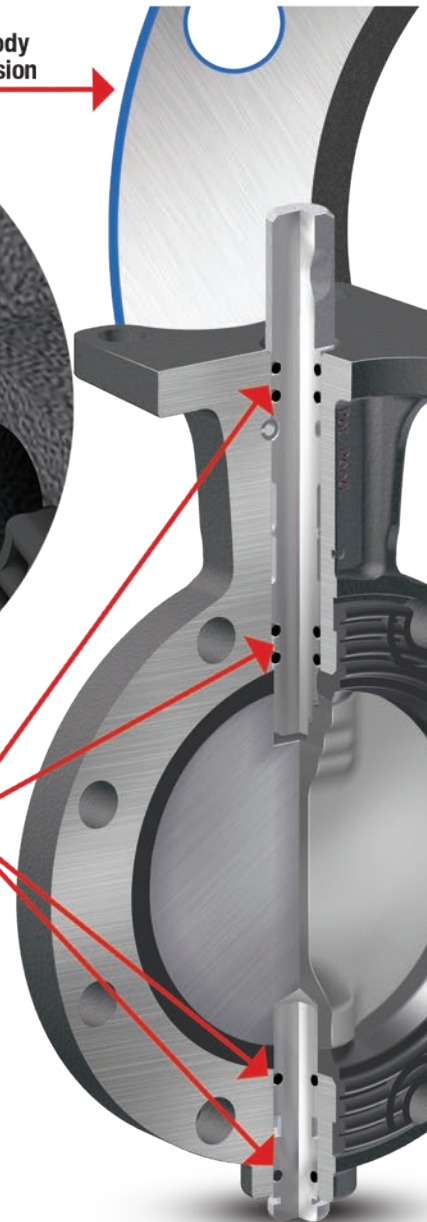
BTI's Pv Series Valves for the petroleum industry.

Features and Benefits:

- Molded in seats with multiple o-rings eliminates the need for gaskets or piping configuration changes. Standard is Viton® B, other seat materials available.
- E-coated housing increases life by minimizing electrolysis and prevents galling of the shaft and housing reducing the chance for seize up of the shaft. E-coating increases wear resistance and surface hardness.
- 1 1/8" thick valve body for industry standard configuration in petro tank trailers
- Ductile or stainless steel disc options
- Can be used in multiple petroleum services.

Ideal for crude oil and liquid fertilizer applications.

**Double O-rings
for leak proof
service**



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3" BTI Pv Series Valve

Configurations

3" Standard Aluminum Body w/ Steel Handle and SS Throttle Plate

3-PVS-BU-D-H10	Ductile Disc & Buna Seat
3-PVS-VB-D-H10	Ductile Disc & Viton B Seat
3-PVS-EP-D-H10	Ductile Disc & EPDM Seat
3-PVS-BU-SS-H10	Stainless Disc & Buna Seat
3-PVS-VB-SS-H10	Stainless Disc & Viton B Seat
3-PVS-EP-SS-H10	Stainless Disc & EPDM Seat

3" Compact Aluminum Body w/ Detent Handle

3-PV-C-BU-D	Ductile Disc & Buna Seat
3-PV-C-VB-D	Ductile Disc & Viton B Seat
3-PV-C-EP-D	Ductile Disc & EPDM Seat
3-PV-C-BU-SS	Stainless Disc & Buna Seat
3-PV-C-VB-SS	Stainless Disc & Viton B Seat
3-PV-C-EP-SS	Stainless Disc & EPDM Seat

4" BTI Pv Series Valve

Configurations

4" Standard Aluminum Body w/ Steel Handle and SS Throttle Plate

4-PVS-BU-D-H10	Ductile Disc & Buna Seat
4-PVS-VB-D-H10	Ductile Disc & Viton B Seat
4-PVS-EP-D-H10	Ductile Disc & EPDM Seat
4-PVS-BU-SS-H10	Stainless Disc & Buna Seat
4-PVS-VB-SS-H10	Stainless Disc & Viton B Seat
4-PVS-EP-SS-H10	Stainless Disc & EPDM Seat

4" Compact Aluminum Body w/ Detent Handle

4-PV-C-BU-D	Ductile Disc & Buna Seat
4-PV-C-VB-D	Ductile Disc & Viton B Seat
4-PV-C-EP-D	Ductile Disc & EPDM Seat
4-PV-C-BU-SS	Stainless Disc & Buna Seat
4-PV-C-VB-SS	Stainless Disc & Viton B Seat
4-PV-C-EP-SS	Stainless Disc & EPDM Seat

All BTI products are guaranteed to:

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series **699/692**

An exceptional American manufactured sanitary valve for chemical and food safe applications.

Sizes: 2"-12" - Lug and Wafer Body Styles

A DISC/STEM

BTI's standard is 25-5 duplex stainless which is more corrosion resistant than 316SS and nearly twice as strong. This allows for the disc to be thinner and increase the Cv without reducing its strength. The encapsulated Disc are PTFE/25-5SS which is nearly 4x more corrosion resistant than 316SS while maintaining superior strength. Consult factory for additional options.

B SEAT

Available valve seats include: PTFE lined with EPDM, FDA Nitrile, or fluorocarbon and also available in standard EPDM Nitrile and Fluorocarbon. Consult factory for additional options.

C HUB SEAL

Provides a positive seal between disc hub and seat.

D STEM/SEAT SEAL

The designed interference between the fully PTFE lined stem and seat provides a secondary seal to prevent media from contacting internal components.

E O-SEAL

BTI O-seals provide a tertiary seal to prevent media from reaching internal valve components. Available in PTFE, Buna-N, EPDM or fluorocarbon.

F BODY

The wafer style body is available in several TTMA flange patterns with a standard body material of ductile iron and is also available in aluminum; with several corrosion resistant coating options. Lug style accommodates ANSI 125 and 150 flange standards. Lug style body is standard ductile iron or available in 25-5 stainless steel.

G TOP PLATE

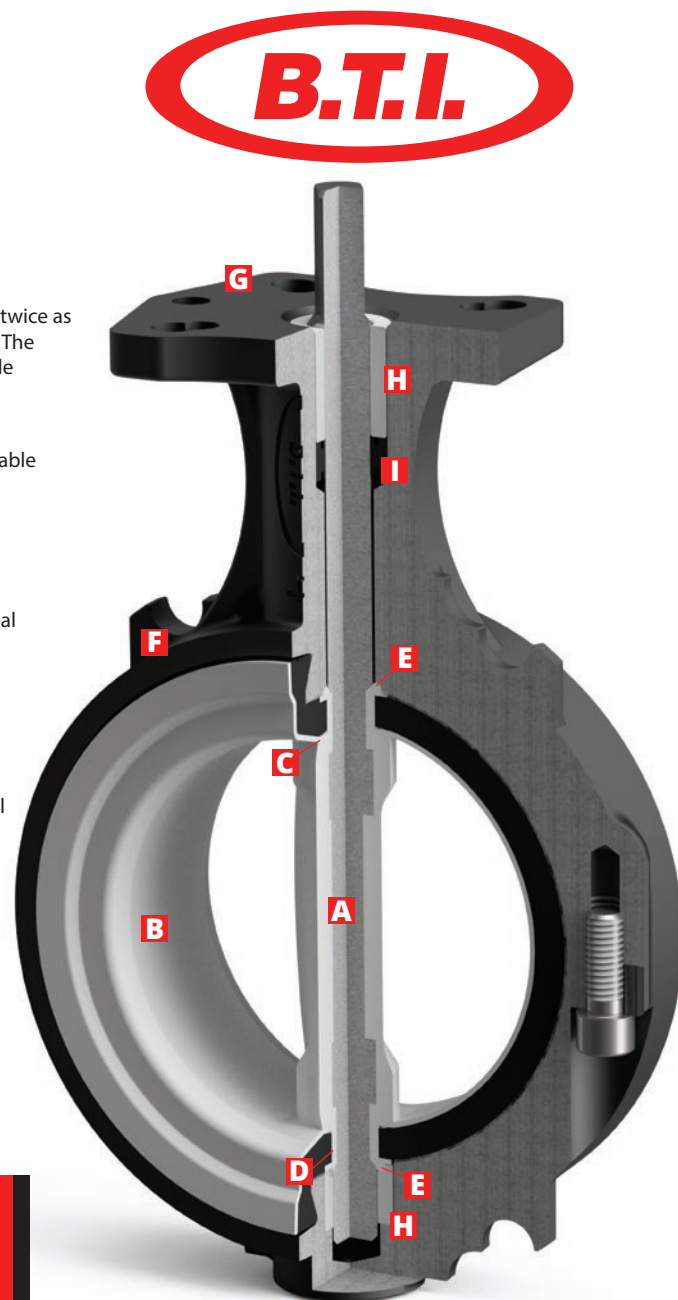
Precision machined to accommodate standard drilling patterns. Will accept manual handle kits, or actuator, interchangeable with standard ISO patterns.

H STEM BUSHING

Corrosion resistant Delrin® stem bushings top and bottom provides seize-free valve operation.

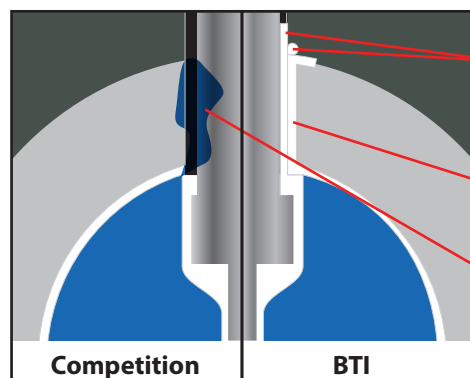
I STEM SEAL

Ensures no external contaminants reach the stem journal. Available in Buna-N, EPDM or fluorocarbon.



Seat and disc are totally Interchangeable with Ultraflo 399/392, Sure Seal 899/892, Keystone 999/992 and ABZ 909/919 valves

THE BTI TOTALLY ENCAPSULATED SYSTEM.



PTFE disc and stem encapsulation not only protects the disc but also extends up the stem, top and bottom. This extension along with a PTFE o-ring creates a leak proof seal against contamination.

PTFE lining encapsulates the seat through the stem ensuring complete protection of the valve seat.

With no extended encapsulation, product can invade and corrode the stem and seat.

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series 699/692

An exceptional American manufactured sanitary valve for chemical and food safe applications.



BTI's standard 25-5 duplex stainless is more corrosion resistant and almost twice as strong as the competition's standard 316 stainless steel, eliminating shaft twisting and water hammer damage.

BTI's ultra-slim disc provides maximum Cv value.

Sizes: 2"-12" - Lug and Wafer Body Styles

Ordering Information

SIZE

SERIES

TRIM#

Inset "U" for undercut disc only*

SEAT

OPERATOR

4

—

692

—

822

—

U

—

515

—

H10

SIZE	SERIES
2 2"	699 Wafer Schedule 80
3 3"	692 Lug Schedule 80

TRIM MATERIAL
822 DI/DuplexSS
508 DI/PTFE
755 DuplexSS/DuplexSS
705 DuplexSS/PTFE

SEAT MATERIAL
515 EPDM
530 Black Nitrile
531 White Nitrile
540 Fluorocarbon A
650 PTFE/EPDM

OPERATOR
H10 10 Position Steel Handle
H9 10 Position 316 SS Handle
GI CI Gear Operator
LH Padlock 10 Position Steel Handle
GL Padlockable Gear Operator

*Undercut available in 4" - 12" only.

Valve Size

	2	3	4	5	6	8	10	12
B	0.375	0.375	0.438	0.500	0.500	0.625	(1/4 x 1/4)	(1/4 x 1/4)
C	1.625	1.750	2.000	2.125	2.125	2.500	2.500	3.000
D	0.563	0.563	0.625	0.750	0.750	0.875	1.125	1.125
E	1.250	1.250	1.250	1.250	1.250	1.250	2.000	2.000
F	3.938	4.875	6.000	6.000	6.500	8.313	9.000	10.625
G	1.375	2.563	3.625	4.750	5.500	7.500	9.594	11.563
H	2.000	3.000	4.000	5.000	5.750	7.750	9.750	11.750
J	4.125	5.250	6.750	7.625	8.625	10.812	13.375	16.188

Wafer Bolt Circle and Tapped Lug Data

	2	3	4	5	6	8	10	12
No. Holes	4	4	8	8	8	8	12	12
Bolt Circle	4.750	6.000	7.500	8.500	9.500	11.750	14.250	17.000
Tap	0.625-11 UNC			0.750-10 UNC			0.875-9 UNC	

Weight (lbs.)

Standard	2	3	4	5	6	8	10	12
699	6	9	11	15	17	29	44	85
692	8	11	17	21	26	42	65	108

Expected Seat/ Unseat Torque Values in in/lbs

	2	3	4	5	6	8	10	12
Dry	300.0	420.0	630.0	855.0	1185.0	1980.0	3045.0	4095.0
Lubricated	150.0	210.0	315.0	429.6	594.0	990.0	1524.0	2052.0

Minimum PTFE Thickness .055"

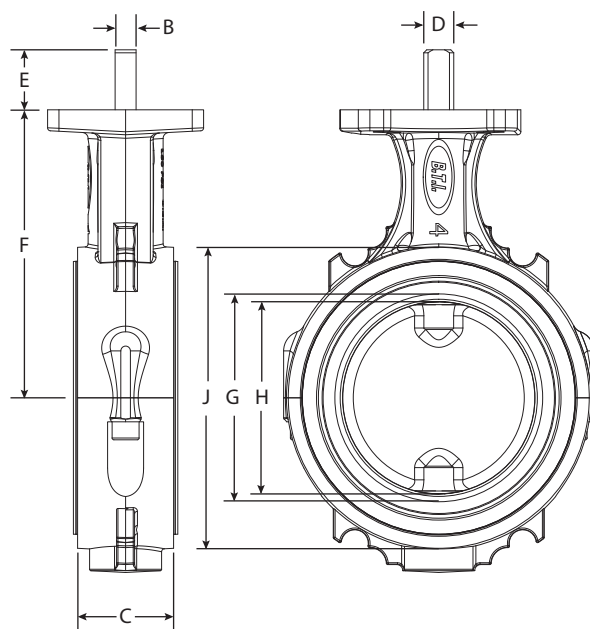
VELOCITY LIMITS: For On/Off Services

Fluids - 9 m/s (30 ft/sec) · Gases - 54 m/s (175 ft/sec)

PRESSURE LIMITS: Full cut Stainless Steel disc (150 psi) · Undercut Stainless Steel disc (50 psi) · Coated disc i.e., PTFE or rubber (100 psi)

Purchasers are expected to make their own tests to determine the suitability of these products for their particular purposes. The data represented in this flyer is for general information only. Manufacturer is not responsible for acceptability of these products in regard to individual system requirements. For specific performance data and correct materials selection, please contact your BTI salesperson.

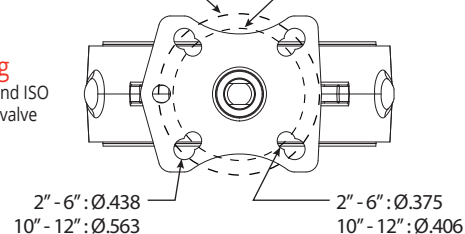
Seat and disc are totally Interchangeable with Ultraflo 399/392, Sure Seal 899/892, Keystone 999/992 and ABZ 909/919 valves



STANDARD	ISO
2" - 6": Ø3.250	2" - 6": Ø2.760
10" - 12": Ø5.000	10" - 12": Ø4.020

Top Plate Drilling

NOTE: Both Standard and ISO drillings come on each valve



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Consult Factory for Application and Availability

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.



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Corrosion issues with a Spring Return Rack & Pinion Actuator



Corrosion results in spring fatigue



Corrosion results in broken spring



Vacuum environment damages actuator soft sealing

Easytork Pneumatic Actuators

Pneumatic Failsafe (Single Acting)

BVA-411-PFS	2" & 3" BTI Valves
BVA-514-PFS	3", 4" & 5" BTI Valves

Pneumatic Double Acting

BVA-411-PDA	2" & 3" BTI Valves
BVA-514-PDA	4", 5" & 6" BTI Valves

Electric Failsafe (Single Acting)

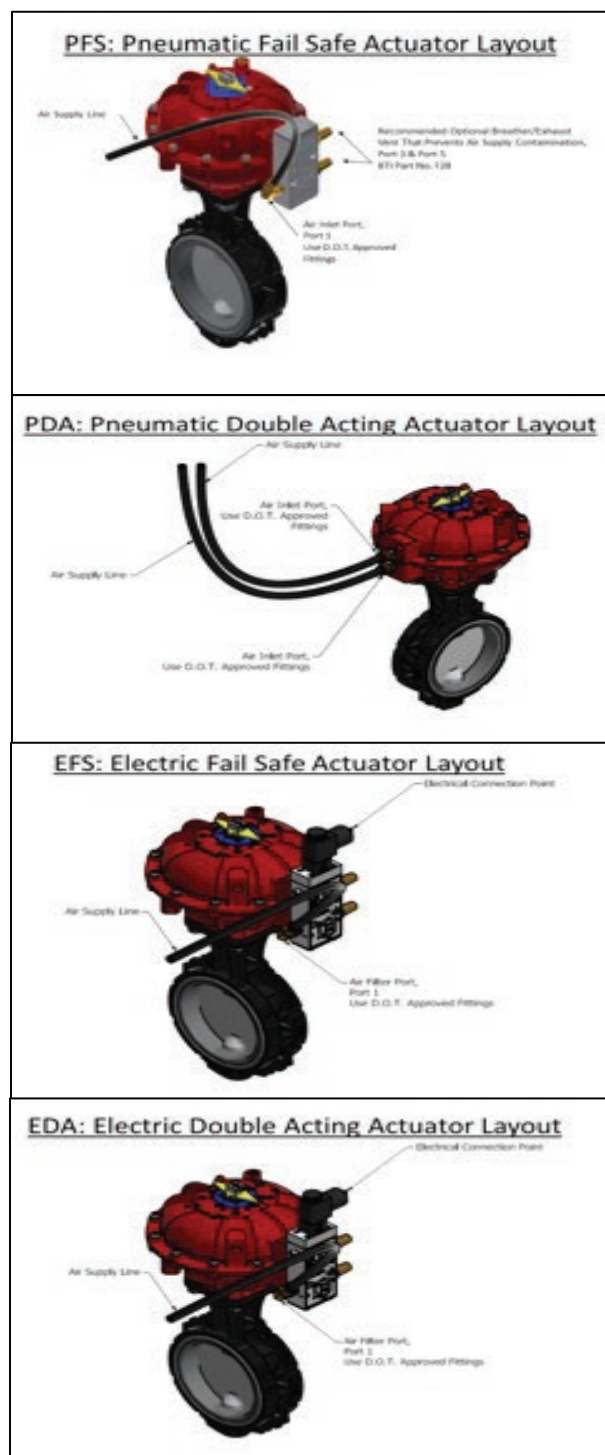
BVA-411-EFS	2" & 3" BTI Valves
BVA-514-EFS	3", 4" & 5" BTI Valves

Electric Double Acting

BVA-411-EDA	2" & 3" BTI Valves
BVA-514-EDA	4", 5" & 6" 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



Always Consult Factory Too Assure The Correct Actuator For Your Application

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When you buy American Made Products –



you make jobs possible for all of **US**.

BTI Utilizes over 700 American companies - creating thousands of US jobs.

When you buy products made in America, you support a vast network of American companies that in turn create and maintain jobs and manufacturing. So please, when you can, buy American made.

a proud member of:



It's good for **US**.
Buy American made, it matters.

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Our MaxxLife and Utility Butterfly Valves are two great examples of our 100% American made products. Every part of these valves originates in the USA. We're proud to say they're the **ONLY** totally American made valves on the market.



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SALES

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