



VN



Valves Product Catalog



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VNE AFFILIATIONS...

VNE is an active member of numerous industry-related organizations and associations.

3-A®

VNE is a member of 3-A®, a voluntary organization committed to safeguarding public health and dairy product quality through a unique industry-regulated program of sanitary standards for equipment used in processing dairy foods.

WCMA

Wisconsin Cheese Makers Association

VNE is a member of WCMA, a nonprofit trade association dedicated to improving the business climate for dairy companies, primarily cheese and butter manufacturing and marketing companies. Their actions also extend to the companies that supply goods and services to the dairy industry.

FISA

Food Industry Suppliers Association

VNE is a member of FISA, a national association of independent distributors and major manufacturers of sanitary supplies used in the food, dairy, beverage, pharmaceutical and personal care industries.

IAFIS

The International Association of Food Industry Suppliers

VNE is a member of IAFIS, a nonprofit trade association of manufacturers and suppliers serving the global food industry. VNE adheres to the international standards promoted in its activities.

ISPE

The International Society for Pharmaceutical Engineering

VNE is a member of ISPE, a not-for-profit volunteer Society of technical professionals, who apply their practical knowledge in the regulated healthcare manufacturing industries. ISPE is committed to advancement of the education and technical efficiency of its members through forums for the exchange of ideas and practical experience.

ASME

American Society of Mechanical Engineers

VNE is a member of ASME International, a nonprofit educational and technical organization serving worldwide membership of 125,000. Established to promote technical competency through quality programs and activities in the mechanical engineering fields.

VALLEES



Butterfly Valves

BUTTERFLY VALVES

“B” SERIES BUTTERFLY VALVES

BUTTERFLY VALVES....

Butterfly Valves are available in Manual, Air Actuated, or Air Actuated with two Micro switches and a Solenoid Valve. Clamp or Weld ends are standard. Other connections are available upon request.

Available seat materials include Silicone, Viton®, and EPDM. Sizes range from 1” through 4”. All product contact surfaces are available in either T304 or T316 stainless steel.



BUTTERFLY VALVES SPECIFICATIONS....

Size Range: 1” through 4” sizes available

Materials: T304
T316

Info: All stainless handle with eight positions is standard. Each position is set in 45° increments.

Silicone seats are standard - other seats available are EPDM and Viton®.

Surface finish meets 3A, FDA and USDA standards. Seats and Seals are FDA approved.

ORDERING SPECIFICATIONS....

- Specify:**
- Quantity
 - Product description or Part No.
 - Size
 - Material Type

VNE CORPORATION

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PNEUMATICALLY OPERATED

PNEUMATICALLY OPERATED BUTTERFLY VALVE INFORMATION

- Air to open, spring to close is standard.
- Unique design provides higher torque at final closing of disc.
- One actuator fits 1" through 4" valves.
- Air pressure required 73-108 psi to operate actuator.
- No spare parts required.
- Maintenance free actuator.

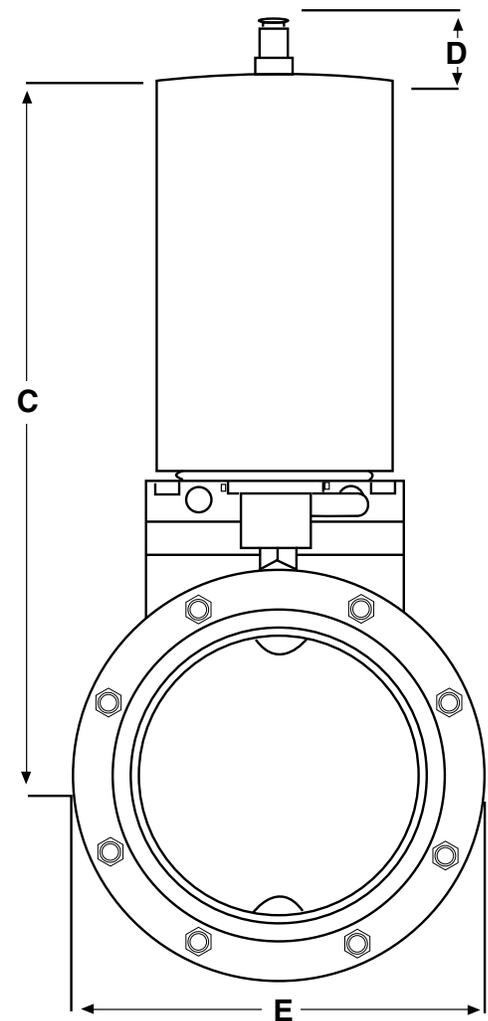
TECHNICAL APPLICATION DATA

- Maximum product pressure 10 Bar / 145 PSI
- Maximum short time sterilization temperature:
 - 130° C / 266°F EPDM
 - 130° C / 266°F Silicon
 - 140° C / 284°F Viton
- Minimum product temperature 14°F

PNEUMATICALLY OPERATED BUTTERFLY VALVE

DIMENSIONAL CHART

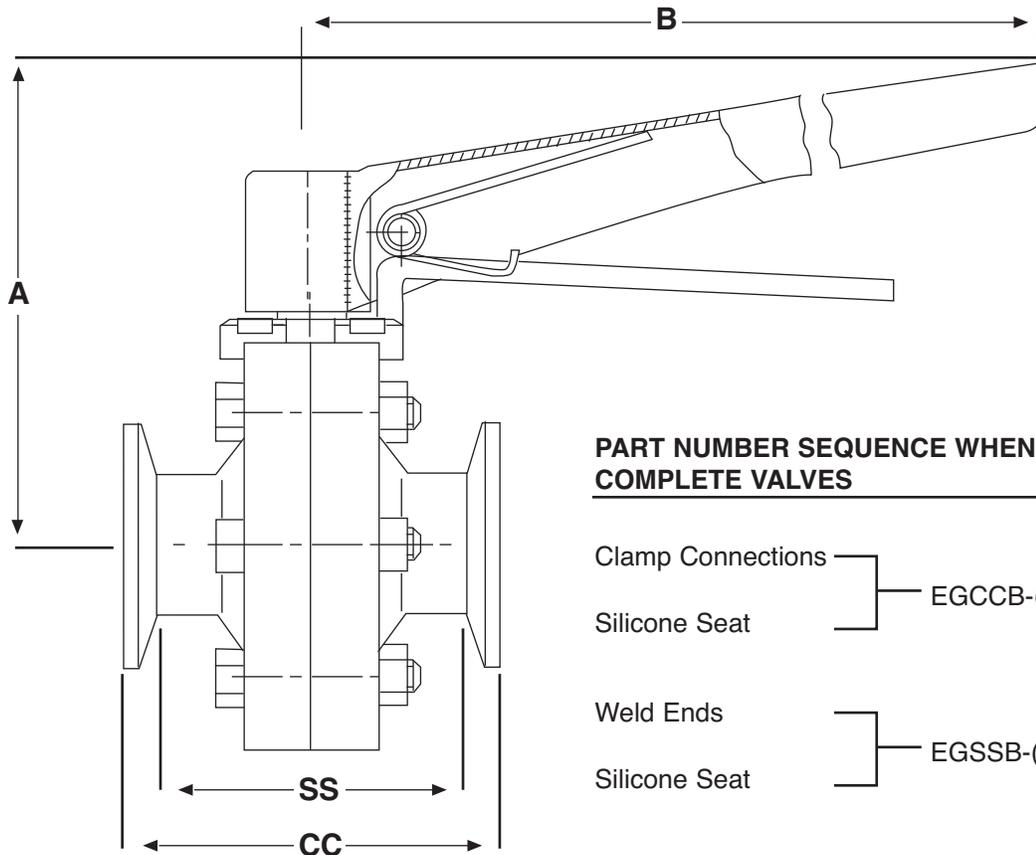
Size	C	C	D	E
	All Steel Internal	Polymer Internals		
1"	7 57/64"	8 23/32	3/4"	2 61/64"
1 1/2"	8 3/64"	8 57/64	3/4"	3 3/16"
2"	8 11/32"	9 11/64	3/4"	3 21/32"
2 1/2"	8 37/64"	9 13/32	3/4"	4 3/32"
3"	8 53/64"	9 21/32	3/4"	4 17/32"
4"	9 7/16"	10 17/64	3/4"	5 43/64"



MANUAL BUTTERFLY VALVE

MANUAL BUTTERFLY VALVE INFORMATION

Note: If other Elastomer is required add suffix as follows: (E) EPDM (V) Viton®



PART NUMBER SEQUENCE WHEN ORDERING COMPLETE VALVES

- Clamp Connections } EGCCB-(Valve Size)
- Silicone Seat } EGCCB-(Valve Size)
- Weld Ends } EGSSB-(Valve Size)
- Silicone Seat } EGSSB-(Valve Size)

Note: To order above items in T316 add a 6 before size.
IE: EGSSB-6-SIZE

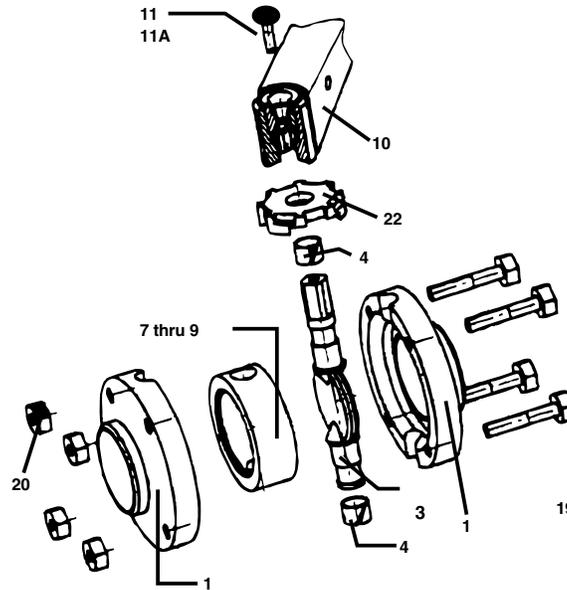
MANUAL BUTTERFLY VALVE

DIMENSIONAL CHART

Size	CC	SS	A	B	Number of Bolts
1"	2 13/16"	1 13/16"	4 19/32"	7"	4
1 1/2"	2 13/16"	1 13/16"	4 23/32"	7"	4
2"	2 13/16"	1 13/16"	4 15/16"	7"	6
2 1/2"	3 3/8"	2 3/8"	5 5/32"	7"	6
3"	3 3/4"	2 3/4"	5 3/8"	7"	6
4"	4"	2 3/4"	5 15/16"	7"	8

MANUAL BUTTERFLY VALVE

PARTS DRAWING & INFORMATION



MANUAL BUTTERFLY VALVE

PARTS LIST

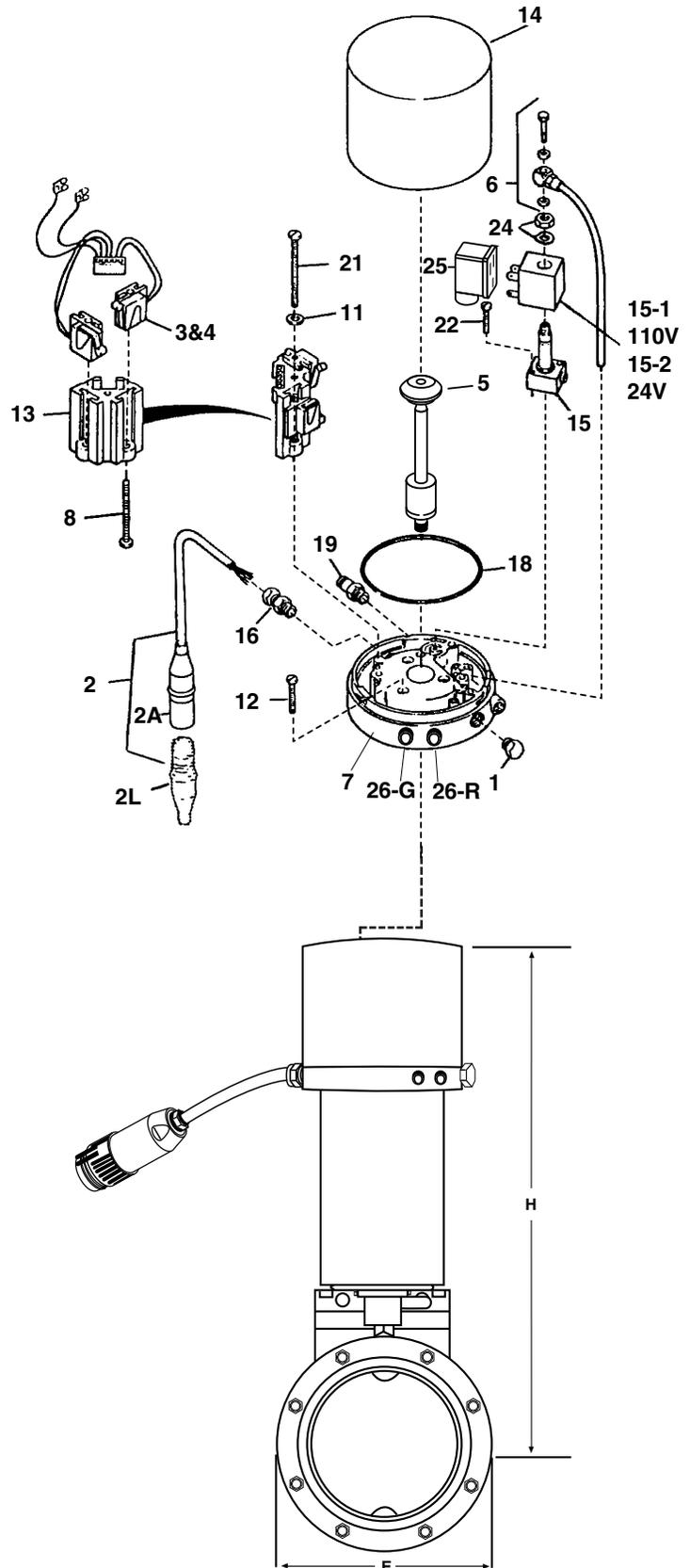
Item	Part Number	Description
1	*BVP-B-96-1-(size)	Body Half - Weld End
1A	*BVP-B-96-1A-(size)	Body Half - Bevel Seat Thread (not shown)
2	*BVP-B-96-2-(size)	Body Half - Clamp (not shown)
3	*BVP-B-96-3-(size)-H	Disc
4	BVP-B-96-4-(size)-H	Teflon Bushing (2 required)
7	BVP-B-96-7-(size)-H	Seat - Silicone (Standard)
8	BVP-B-96-8-(size)-H	Seat - EPDM
9	BVP-B-96-9-(size)-H	Seat - Viton®
10	BVP-B-96-10	All Stainless Handle
11	BVP-B-96-11	Thumbscrew
11A	BVP-B-00-11A	Allen Head Handle Seat Screw
15A	BVP-B-96-15A	Mounting Bracket for Actuator on Clamp Type Valve (not shown)
15B	BVP-B-96-15B	Mounting Bracket for Actuator on Flange Type Valve (not shown)
19	BVP-B-96-19	Bolts for Body Half
19L	BVP-B-96-19L	Long Bolts for Mounting Actuator Bracket (not shown)
20	BVP-B-96-20	Nuts for Body Half
20A	BVP-B-96-20A	Wing Nuts for Body Half (not shown)
20AS	BVP-B-96-20AS	Wing Nuts for 3" Body Half Only (not shown)
22	BVP-B-96-22	Handle Seat

*To order above items in T316 stainless steel add a 6 before size. IE: BVP-B-96-1-6-SIZE

ELECTRONIC BUTTERFLY VALVE

ELECTRONICALLY-CONTROLLED PNEUMATICALLY OPERATED BUTTERFLY VALVE

- Electro-magnetic air solenoid valve provides quick positive response to control signal
- Two limit switches provide confirmation of valve position to central control panel
- Available in 110V or 24V
- All controls are protected under the splash-proof cover on top of the cylinder
- Two Indicating Lights on outside of valve for visual inspection



ELECTRONIC ACTUATOR

PARTS LIST

Item	Part Number	Description
1	BVP-ACTUC-1	Stainless Plugs (2)
2	BVP-ACTUC-2	Elec. Adapter (Complete)
2A	BVP-ACTUC-2A	Elec. Adapter (Actuator Side)
2L	BVP-ACTUC-2L	Elec. Adapter (Line Side)
3+4	BVP-ACTUC-3+4	Micro Switches with Harness and Terminal Strip (Complete)
5	BVP-ACTUC-5	Micro Switch Activator
6	BVP-ACTUC-6	Air Vent Tube Assembly
7	BVP-ACTUC-7	Plastic Molded Base
8	BVP-ACTUC-8	Adj. Screws for Micro Switch (2 Required)
11	BVP-ACTUC-11	Washer for Block
12	BVP-ACTUC-12	Base Screws (3 Required)
13	BVP-ACTUC-13	Switch Block
14	BVP-ACTUC-14	Cover
15	BVP-ACTUC-15	Solenoid Valve
15-1	BVP-ACTUC-15-1	110V Coil Only
15-2	BVP-ACTUC-15-2	24V Coil Only
16	BVP-ACTUC-16	Cable Adapter Fitting
18	BVP-ACTUC-18	Cover O-Ring
19	BVP-ACTUC-19	Air Inlet Fitting
21	BVP-ACTUC-21	Screw for Block
22	BVP-ACTUC-22	Screws for Solenoid (2 Required)
24	BVP-ACTUC-24	Nut and Washer for Coil-Solenoid
25	BVP-ACTUC-25	Plug Connection to Solenoid
26-G	BVP-ACTUC-26G	Indicating Light (Green)
26-R	BVP-ACTUC-26R	Indicating Light (Red)
23	BVP-B-96-23	Air Inlet Fitting (not shown)
24	BVP-B-96-24	Coupler for Clamp Type Valve, Visual Stem Indicator (not shown)
25	BVP-B-96-25	Coupler for Flange Type Valve, Visual Stem Indicator (not shown)
25A	BVP-B-96-25A	Rivet for Coupler (not shown)

ELECTRONICALLY-CONTROLLED PNEUMATICALLY OPERATED VALVE

DIMENSIONAL CHART

Size	E	H
1"	2 61/64"	11 57/64"
1 1/2"	3 3/16"	12 3/64"
2"	3 21/32"	12 11/32"
2 1/2"	4 3/32"	12 37/64"
3"	4 17/32"	12 53/64"
4"	5 43/64"	13 7/16"

PNEUMATICALLY OPERATED AND/OR ELECTRONICALLY-CONTROLLED BUTTERFLY VALVE

PART NUMBER SEQUENCE WHEN ORDERING COMPLETE VALVES

ASPCCB (Size) -	Clamp End T304 Butterfly Valve with Electronically Controlled all Stainless Air to Spring Actuator & Silicone Seat.
ASPSSB (Size) -	Weld End T304 Butterfly Valve with Electronically Controlled all Stainless Air to Spring Actuator & Silicone Seat
ASPCCB-NE (Size) -	Clamp End T304 Butterfly Valve with all Stainless Air to Spring Actuator & Silicone Seat
ASPSSB-NE (Size) -	Weld End T304 Butterfly Valve with all Stainless Air to Spring Actuator & Silicone Seat
ASPCCB-6 (Size) -	Clamp End T316L Butterfly Valve with Electronically Controlled all Stainless Air to Spring Actuator & Silicone Seat.
ASPSSB-6 (Size) -	Weld End T316L Butterfly Valve with Electronically Controlled all Stainless Air to Spring Actuator & Silicone Seat
ASPCCB-6NE (Size) -	Clamp End T316L Butterfly Valve with all Stainless Air to Spring Actuator & Silicone Seat
ASPSSB-6NE (Size) -	Weld End T316L Butterfly Valve with all Stainless Air to Spring Actuator & Silicone Seat
APPCCB-NE (Size) -	Clamp End T304 Butterfly Valve with Stainless & Polymer Internal Components Air to Spring Actuator & Silicone Seat
APPSSB-NE (Size) -	Weld End T304 Butterfly Valve with Stainless & Polymer Internal Components Air to Spring Actuator & Silicone Seat
APPCCB-6NE (Size) -	Clamp End T316L Butterfly Valve with Stainless & Polymer Internal Components Air to Spring Actuator & Silicone Seat
APPSSB-6NE (Size) -	Weld End T316L Butterfly Valve with Stainless & Polymer Internal Components Air to Spring Actuator & Silicone Seat

Note: If other Elastomer is required add suffix as follows: (E) EPDM
(V) Viton®

ACT-AS-NE-B -	All Stainless Air to Spring T304 Actuator
ACT-AP-NE-B -	Stainless & Polymer Internal Components Air to Spring T304 Actuator
ACT-AS-(110V/ 24V) -	All Stainless Electronically Controlled Air to Spring T304 Actuator. Designate 110V or 24V

VALVES



Check Valves

CHECK VALVES

BALL, SPRING AND AIR BLOW CHECK VALVES

CHECK VALVES....

Check Valves are widely used for both sanitary and industrial applications to prevent backflow of product.

Ball Check Valves are designed to allow full product flow during processing. Once the product flow stops the ball rolls back to the seat at inlet preventing back flow. Ball Check Valves are commonly used with liquid products. Sizes range 1 1/2" - 3".

Spring Check Valves are designed to assist closure pressure to create a positive shutoff. They are commonly used with liquid products. Sizes range 1/2" - 4".

Both valves are offered with standard clamp ends. Other connections are available upon request. Valves are made of T316L stainless steel.

Air Blow Check Valves are designed to evacuate lines of product or CIP solutions. Air Blow Check Valves are made of T316L Stainless Steel.



ORDERING SPECIFICATIONS....

- Specify:**
- Quantity
 - Product description or Part No.
 - Size
 - Material Type

Info:

Conform to 3A Sanitary Standards for Vacuum Breakers and Check Valves. Standard number 58-01. Certificate Authorization number 3573. Seats and Seals are FDA approved.

VNE CORPORATION

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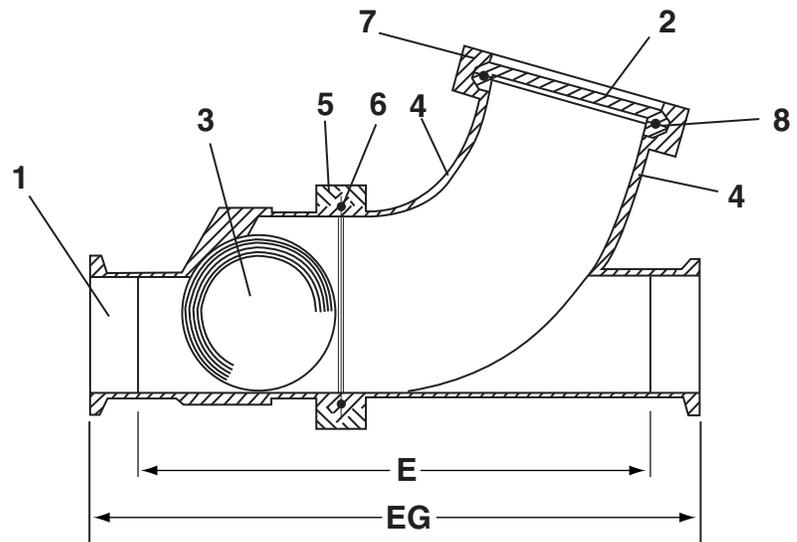
BALL CHECK VALVE

INFORMATION

- Precision machined seat to ensure positive shut-off
- Two-piece construction for easier alignment during installation
- Other connections available upon request
- Buna-N and Viton® elastomers
- Polished ID and OD
- All metal contact surfaces of T316L stainless steel
- Sizes range from 1 1/2" through 3"
- Buna Ball & Gaskets Standard
- Meets 3A requirements 

PARTS BREAKDOWN

1. Seat body - (Clamp)
- 1W. Seat body - (Weld)
2. Cap
- 3B. Ball-(Buna-N)
- 3V. Ball-(Viton®)
4. Angle body
- 4W. Angle body-(Weld)
5. Body clamp
- 6B. Body gasket-(Buna-N)
- 6V. Body gasket-(Viton®)
7. Cap clamp
- 8B. Cap gasket-(Buna-N)
- 8V. Cap gasket-(Viton®)



PART NUMBER SEQUENCE WHEN ORDERING COMPLETE VALVE:

- Clamp connections EG45BY-6 (valve size)
 Weld ends E45BYWW-6 (valve size)
 Note: If Viton® elastomers are required, add "V" after size

PART NUMBER SEQUENCE WHEN ORDERING REPLACEMENT PARTS:

- BCV (item number) - (valve size)
 Example: BCV3B-1.5 = Buna-N ball for 1.5 valve

Valve Size	Nominal Size				Actual Size	Overall Length		Approx. Wt. Lbs.
	1 & 4 Body	2 Cap	5 & 7 Clamp	6 & 8 Gasket	3 Ball	EG Clamp	E Weld	
1.5	1.5"	2.5"	2.5"	2.5"	2 1/8"	10	9	4.80
2.0"	2.0"	3.0"	3.0"	3.0"	2 5/8"	11	10	6.30
2.5"	2.5"	4.0"	4.0"	4.0"	3 5/16"	14 1/8	13 1/8	10.20
3.0"	3.0"	4.5"	4.5"	4.5"	4 1/4"	13 5/8	12 5/8	11.50
*3.0"	3.0"	4.0"	4.0"	4.0"	3 5/16"	13 5/8"	12 5/8"	11.50

* Redesigned February 2003. Valves purchased after 2/03 use *3.0 dimensions.

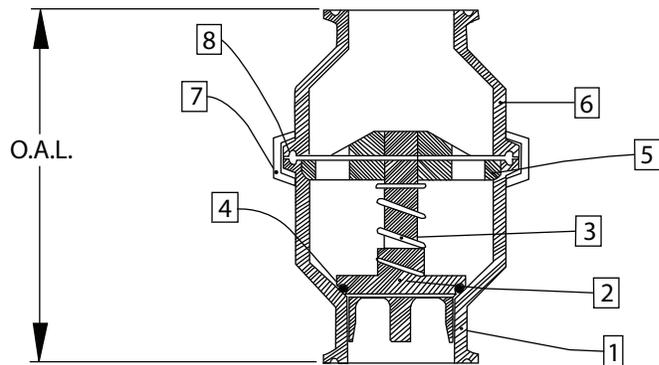
SPRING CHECK VALVE

INFORMATION

- One piece stem with O-Ring construction (easy seal replacement and positive shut-off)
- Viton O-Ring standard (other available upon request)
- Clamp connections standard (other connections available upon request)
- Full Polished ID and OD
- All metal contact surfaces of T316L Stainless Steel
- Sizes range from .5" through 4.0"

PARTS BREAKDOWN

1. Lower body - (Body)
2. Stem - (2.0 thru 4.0 have guide fingers)
3. Spring - (3-5 psi) (Available upon request)
- 3L Spring Light - (1-3 psi) Standard
4. O -Ring - standard Viton
5. Stem guide
6. Upper body - (Bonnet)
7. Body Clamp .5 and" .75" = 13MHMM1.5 - H
Body Clamp 1.0" and 1.5" = 13MHMM2.5 - H
Body Clamp 2.0" = 13MHMM3.0 - H
Body Clamp 2.5" = 13MHMM4.0 - H
Body Clamp 3.0" = 13MHMM5.0 - H
Body Clamp 4.0" = 13MHP6.0
8. Clamp Gasket .5 and .75 = EG40V 1.5
Clamp Gasket 1.0 and 1.5 = EG40V 2.5
Clamp Gasket 2.0 = EG40V 3.0
Clamp Gasket 2.5 = EG40V 4.0
Clamp Gasket 3.0 = EG40V 5.0
Clamp Gasket 4.0 = EG40V 6.0



PART NUMBER SEQUENCE WHEN ORDERING COMPLETE VALVE:

45 (spring check) C (clamp) 6 (T316L) 2.0 (size) V (seat material) Example: 45C - 6 2.0 - V

When requesting O-Ring changes add the following to the end of part number

Note: V=Viton E=EDPM S=Silicone B=Buna,

PART NUMBER SEQUENCE WHEN ORDERING REPLACEMENT PARTS:

45-SCV (item number) - (valve size)

Example: 45-SCV1C-1.5 = Lower body clamp for 1.5 valve

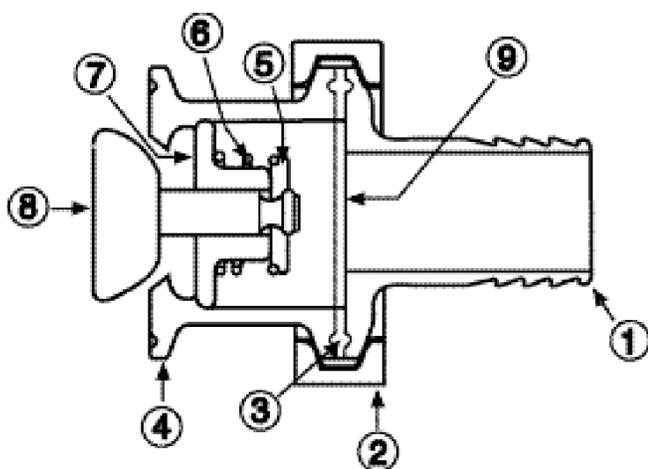
Overall Length			
Valve Size	Standard Clamp	Weld and Other	Approx WT LBS
.5"	3 1/2	A.O.R	2.2
.75"	3 1/2	A.O.R.	2.2
1.0"	4 1/8	A.O.R	3.5
1.5"	4 9/16	A.O.R.	3.5
2.0"	5 1/16	A.O.R.	5.4
2.5"	5 3/8	A.O.R.	6
3.0"	6 1/8	A.O.R.	6.25
4.0"	8 1/8	A.O.R.	16

AIR BLOW CHECK VALVE

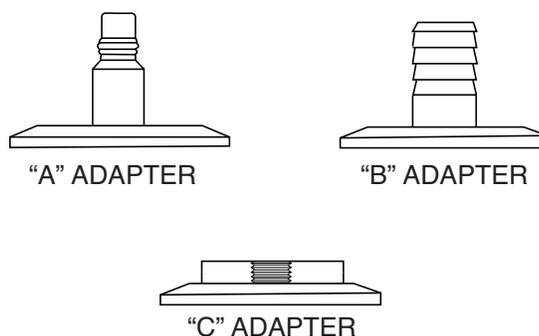
ILLUSTRATION

Air Blow Check Valves are made of T316L Stainless Steel and are offered with EPDM or Viton® Elastomers.

Note: EDPM Stem Standard



AIR BLOW CHECK VALVE CONNECTIONS



PART NUMBER SEQUENCE WHEN ORDERING COMPLETE VALVE

EG62A-6L SIZE = "A" Connection

EG62B-6L SIZE = "B" Connection (shown)

EG62C-6L SIZE = "C" Connection

For Viton® Add "V" to end of part number

PARTS LIST

1. ADAPTER

ABV1A = Air Line Quick Coupler

ABV1B = Rubber Hose Barb 1"

ABV1C = Thermometer Cap

1. EG23B-6L 1.5 x .375 FNPT

2. EG23B-6L 1.0 x .500 FNPT

2. CLAMP

13MHHM 1.5 = 1 1/2" All Sizes

3. PERFORATED DISC

ABV3 1.5 = 1 1/2" EPDM

ABV3-V 1.5 = 1 1/2" Viton®

4. VALVE BODY

ABV4 1.5 = 1 1/2" Clamp Body

ABV4 2.0 = 2" Clamp Body

ABV4 2.5 = 2 1/2" Clamp Body

ABV4 3.0 = 3" Clamp Body

ABV4 4.0 = 4" Clamp Body

5. SPRING RETAINER

ABV5 = All Sizes

6. SPRING

ABV6 = All Sizes

7. STEM GUIDE

ABV7 = All Sizes

8. STEM

ABV8 = EPDM Stem

ABV8-V = Viton® Stem

9. FILTER DISC

ABV9
50 / PKG.

AIR BLOW CHECK VALVE

AIR BLOW CHECK VALVE ABILITIES

- VNE Air Blow Check Valves are designed to evacuate lines of product or CIP solutions.
- Fail Safe Operation - backflow of product or CIP solution prevented by simple air to open, spring to close operation.
- Easy Assembly / Disassembly - Clamp connections permit quick disassembly and assembly for replacing Filter Media, cleaning or inspection.
- Made of T316L stainless steel offered with EPDM or Viton® Stem and Gasket.
- Meets 3A standards - for applications requiring a final filtering of air prior to entering tank or pipelines.
- Note:
The Air Blow Check Valve must be used with a Filter Disc. These Filter Discs are available in packages of 50.

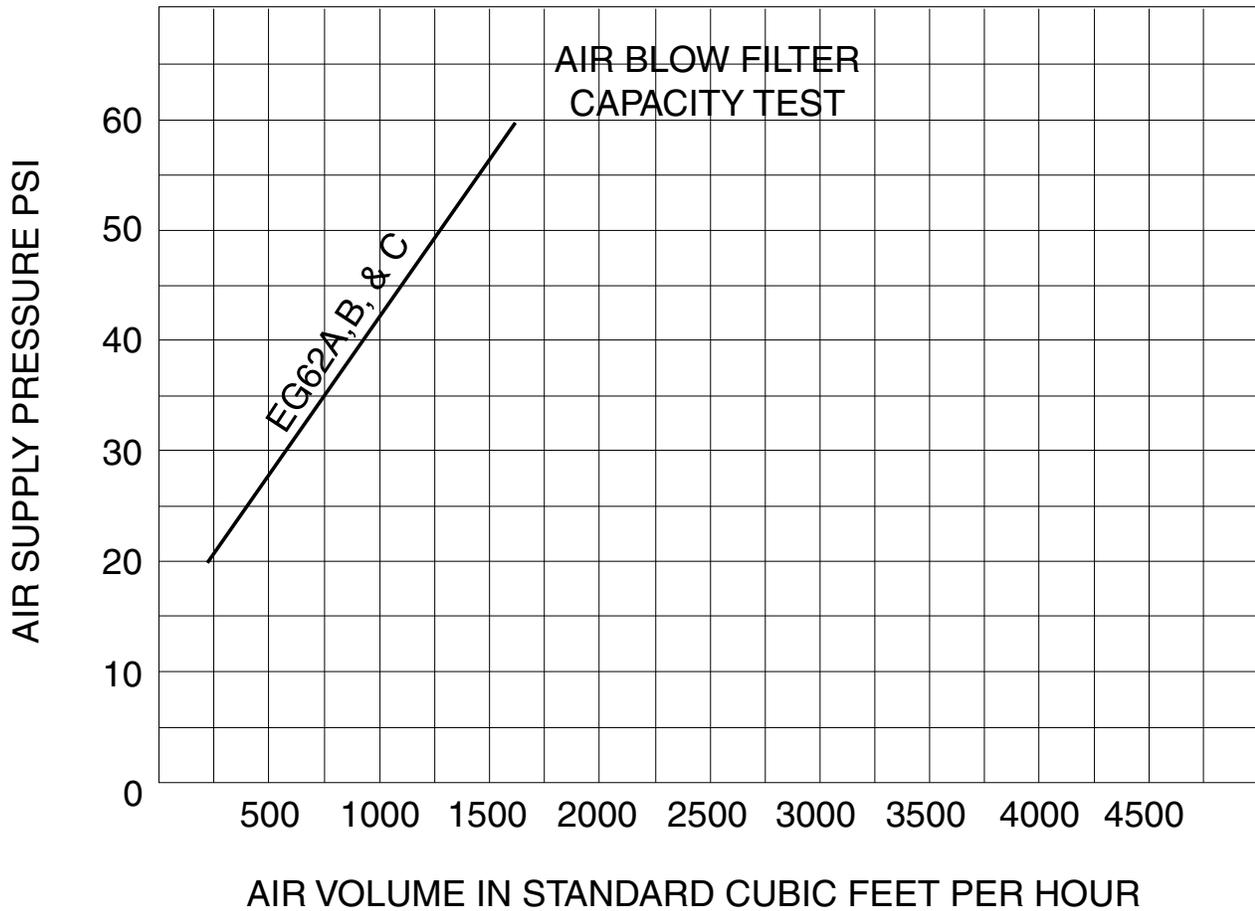
- * For use on Ball Check Valves:
 - 1 1/2" Ball Check Valve uses 2 1/2" Air Blow Valve
 - 2" Ball Check Valve uses 3" Air Blow Valve
 - 2 1/2" Ball Check Valve uses 4" Air Blow Valve
 - 3" Ball Check Valve uses 4" Air Blow Valve

AIR BLOW CHECK VALVE DIMENSION TABLE

Part Number	Description		1 1/2"	2"	2 1/2"	3"	4"
EG62A-6L	"A" Adapter	Length	2.500	2.500	2.500	2.500	2.500
EG62A-6L	"A" Adapter	O.D.	1.984	2.516	3.047	3.579	4.682
EG62B-6L	"B" Adapter	Length	4.875	4.875	4.875	4.875	4.875
EG62B-6L	"B" Adapter	O.D.	1.984	2.516	3.047	3.579	4.682
EG62C-6L	"C" Adapter	Length	2.000	2.000	2.000	2.000	2.000
EG62C-6L	"C" Adapter	O.D.	1.984	2.516	3.047	3.579	4.682

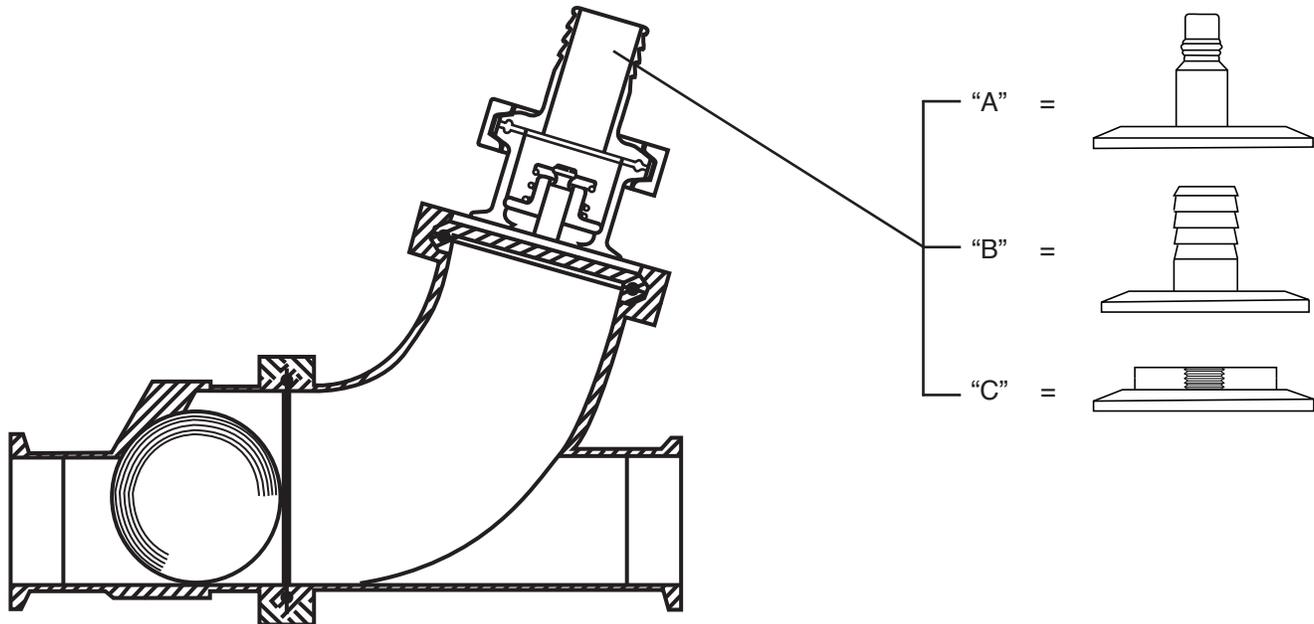
AIR BLOW CHECK VALVE

DISPOSABLE AIR FILTER MEDIA CAPACITY TEST



AIR BLOW CHECK VALVE

BALL CHECK WITH AIR BLOW CHECK VALVE



* For dimensional information see individual components

BALL CHECK WITH AIR BLOW CHECK VALVE

- Air Blow Check Valves are commonly used on ball check valves to evacuate lines of product or CIP solutions
- Easy assembly and disassembly of Air Blow Check Valve
- Buna Ball Check Valve offered standard with EPDM Air Blow Check Valve with Viton® options

PART NUMBERS FOR BALL CHECK WITH AIR BLOW CHECK VALVE

CLAMP	EG45ABA-6 SIZE = "A" Connection	WELD	E45WWABA-6 SIZE = "A" Connection
	EG45ABB-6 SIZE = "B" Connection		E45WWABB-6 SIZE = "B" Connection
	EG45ABC-6 SIZE = "C" Connection		E45WWABC-6 SIZE = "C" Connection

*For Viton® Ball, Stem, and Elastomers Add "V" to end of part number

VALLEES



Ball Valves

BALL VALVES

BALL VALVES....

Ball Valves are used in a wide variety of high pressure applications. Two factors make them popular. First, a full unrestricted flow that allows no product restrictions through the valve. Second, the three piece design and the removal of a minimal number of bolts allows service to be performed without removing the complete valve from the line.

VNE offers two way ball valves made of T316 (CF8M) stainless steel. PTFE seats are easily removed. Clamp and Weld ends are standard. Other connections are available upon request. 1/2" through 4" sizes are available.

VNE offers many options on automated ball valves.

BALL VALVE SPECIFICATIONS....

Size:	1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4"
Material:	Passivated 316 Stainless Steel (ASTM A351, CF8M)
Connections:	Clamp, Buttweld and Orbital weld - other connections available upon request
Working Pressure:	1/2" - 1" 1,000 psi 1 1/2" - 2" 1,000 psi 2 1/2" - 4" 600 psi
Temperature Rating:	-65 to 320 Degrees F

ORDERING SPECIFICATIONS....

Specify:	<ul style="list-style-type: none">• Quantity• Product description or Part No.• Size• Material Type
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IMPORTANT FEATURES...

- 3 - Piece design - allows valve ends to remain attached while servicing valve body
- 100% Tested
- Valves marked with heat numbers for full identification and traceability
- English hardware
- Maintenance and servicing is made easy with removal of a minimal number of bolts
- Reinforced Teflon® Seats
- PTFE Cavity Filler, fully encapsulated
- Locking device handle
- Air Actuator mounting kits which include ISO-5211 pads are available
- Repair kits are available
- Conform to 3A Sanitary Standards for Ball-Type Valves. Standard Number 68-00. Certificate Authorization Number 3511. Seats and Seals are FDA approved.

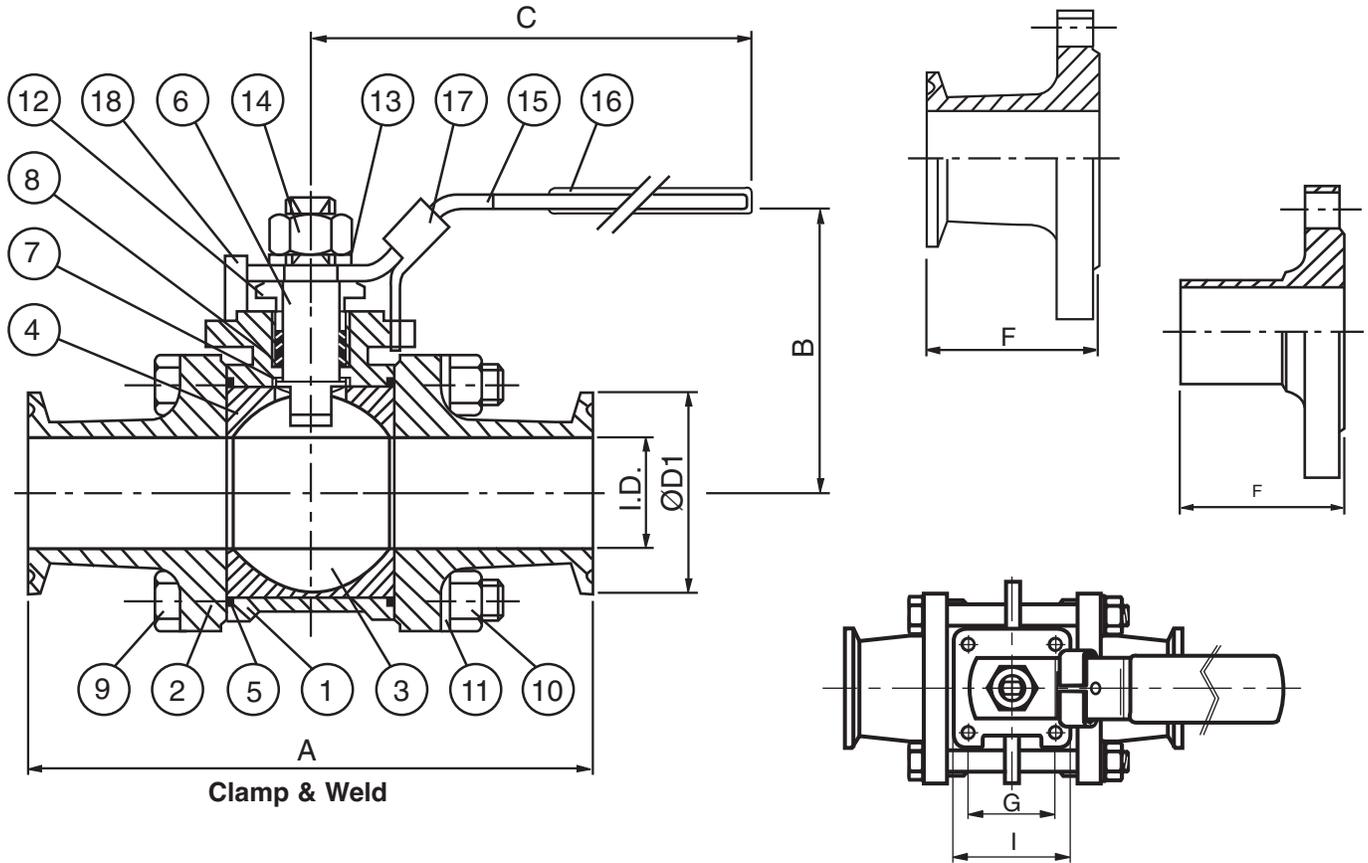
VNE CORPORATION

P.O. Box 1698 • 1149 Barberry Drive • Janesville, WI 53547

TEL: 608-756-4930 • FAX: 608-756-3643 • 1-800-356-1111 • Web site: vnestainless.com

CLAMP AND WELD VALVES

PART NUMBER EG90CC-6-SIZE = CLAMP
E90WW-6-SIZE = WELD



CLAMP & WELD DIMENSIONS

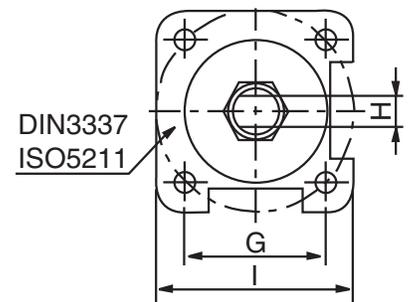
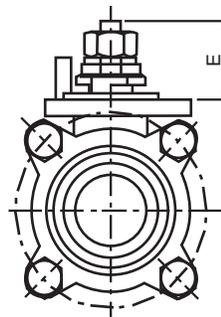
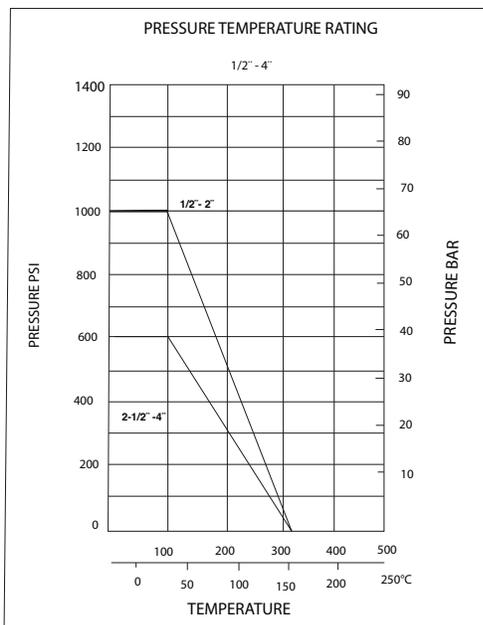
SIZE INCH	ISO- 5211	A	B	C	I.D.	ØD	ØD1	E	F	G	H	I
1/2"	F03	3.503	2.165	5.11	0.375	0.50	1.00	0.708	1.289	1.00	0.196	1.456
3/4"	F03	3.976	2.362	5.11	0.625	0.75	1.00	0.728	1.437	1.00	0.196	1.456
1"	F04	4.488	2.716	6.49	0.875	1.00	1.98	0.885	1.574	1.17	0.256	1.653
1 1/2"	F05	5.511	3.307	7.67	1.375	1.50	1.98	1.165	1.712	1.39	0.334	1.968
2"	F05	6.141	3.622	7.67	1.875	2.00	2.51	1.165	1.801	1.39	0.334	1.968
2 1/2"	F07	7.756	5.000	9.92	2.375	2.50	3.05	1.750	2.204	1.95	0.472	2.834
3"	F07	9.015	5.354	9.92	2.875	3.00	3.58	1.750	2.540	1.95	0.472	2.834
4"	F10	9.567	6.260	13.07	3.834	4.00	4.68	1.921	2.385	2.83	0.630	3.740

Also available with orbital weld end connections. Contact VNE for dimensions.

CLAMP AND WELD VALVES

PART LIST FOR CLAMP & WELD VALVES

Part Number	Description	Material	Qty.
Ball-1	Body	ASTM-A351-CF8M	1
Ball-2C	Clamp End Connection	ASTM-A351-CF8M	2
Ball-2W	Weld End Connection	ASTM-A351-CF8M	2
Ball-3	Ball	A351-CF8M	1
Ball-4	Seat	PTFE	2
Ball-5	Gasket	PTFE	2
Ball-6	Stem	AISI-316	1
Ball-7	Thrust Washer	PTFE	1
Ball-8	Stem Packing	PTFE	1
Ball-9	Bolt	AISI-304	4
Ball-10	Hex Nut	AISI-304	4
Ball-11	Bolt Washer	AISI-304	4
Ball-12	Gland	AISI-304	1
Ball-13	Washer	AISI-304	1
Ball-14	Nut	AISI-304	1
Ball-15	Handle	AISI-304	1
Ball-16	Plastic Cover	Plastic	1
Ball-17	Lock Device	AISI-304	1
Ball-18	Stop Pin	AISI-304	1



BALL VALVE TORQUE....

3-PC Type full port stainless steel 316 sanitary ball valve ferrule-end and weld-end.

1/2"	- Breakaway Torque ----	42	In-LBS
3/4"	- Breakaway Torque ----	58	In-LBS
1"	- Breakaway Torque ----	83	In-LBS
1 1/2"	- Breakaway Torque ----	150	In-LBS
2"	- Breakaway Torque ----	298	In-LBS
2 1/2"	- Breakaway Torque ----	512	In-LBS
3"	- Breakaway Torque ----	685	In-LBS
4"	- Breakaway Torque ----	996	In-LBS

BALL VALVES

BALL VALVES...

Ball Valves are used in a wide variety of high pressure applications. A full unrestricted flow allows no product restrictions through the valve. Thus, allowing easy diversion.

VNE offers three way ball valves made of T316 (CF8M) stainless steel. With PTFE seats that are easily removed. Clamp and Weld ends are standard. Other connections are available upon request. 1/2" through 3" sizes are available.



BALL VALVE SPECIFICATIONS...

Size:	1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4"
Material:	Passivated 316 Stainless Steel (ASTM A351, CF8M)
Connections:	Clamp & weld - other connections available upon request
Working Pressure:	1/2" - 1" 1,000 psi 1 1/2" - 2" 1,000 psi 2 1/2" - 4" 800 psi
Temperature Rating:	-65 to 350 Degrees F

ORDERING SPECIFICATIONS...

Specify:	<ul style="list-style-type: none">• Quantity• Product description or Part No.• Size
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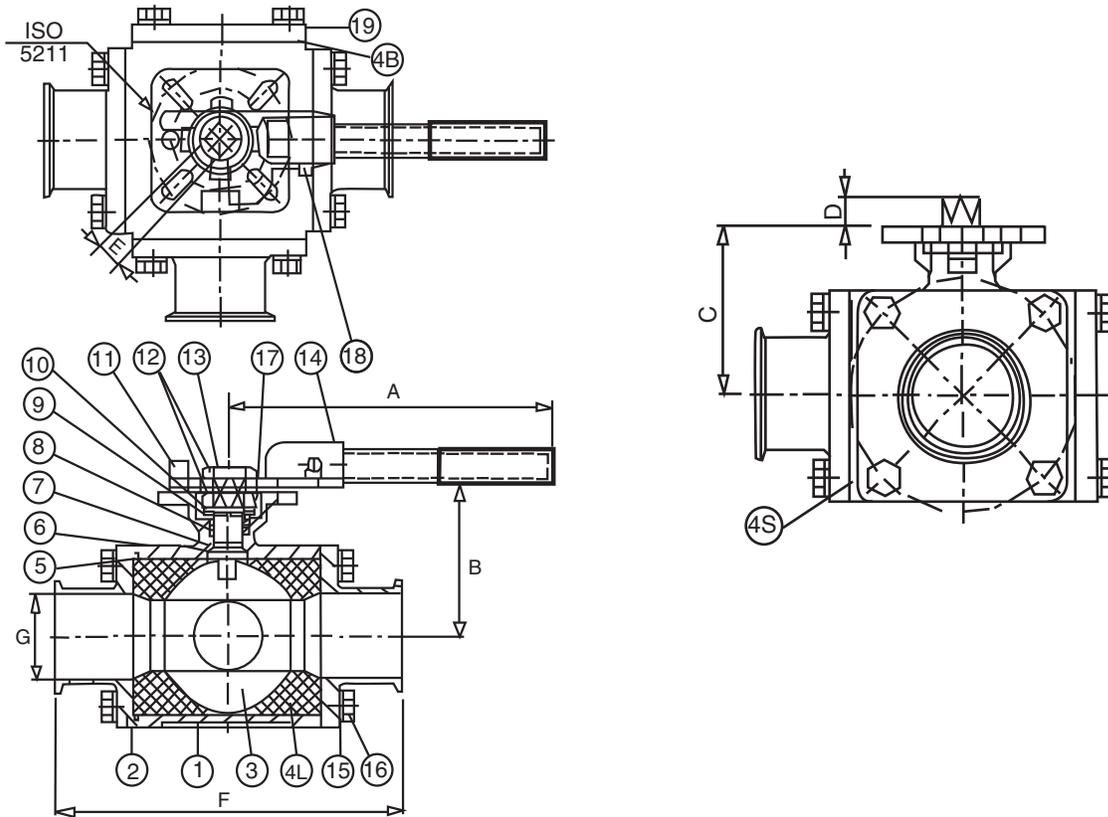
IMPORTANT FEATURES...

- 100% Tested
- Valves marked with heat numbers for full identification and traceability
- English hardware
- Reinforced Teflon® Seats
- PTFE Cavity Filler, fully encapsulated
- Locking device handle
- Air Actuator ISO-5211 mounting pad standard on all valves
- Repair kits are available
- L Port is standard. T Port available upon request
- Conform to 3A Sanitary Standards for Ball-Type Valves. Standard Number 68-00. Certificate Authorization Number 3511. Seats and Seals are FDA approved.

Clamp and Weld Valves

Part Number EG93CCC - 6 - Size = Clamp

Part Number E93WWW - 6 - Size = Weld

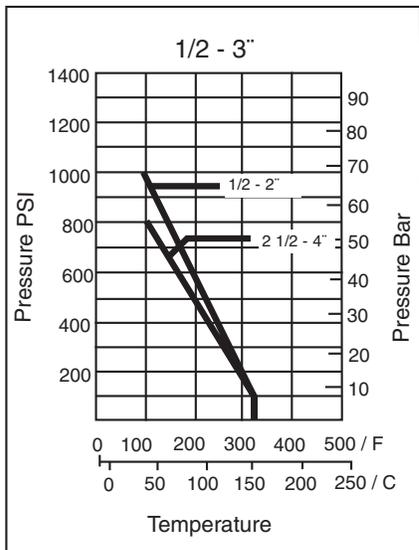


CLAMP AND WELD DIMENSIONS

Size	ISO-	A	B	C	D	E	F	G
Inch	5211							
1/2"	F03/F04	4.75	3.0625	1.75	.354	.354	4.625	.375
3/4"	F03/F04	4.75	3.25	1.875	.354	.354	5.000	.625
1"	F04/F05	5.375	3.55	2.323	.433	.433	6.000	.875
1 1/2"	F05/F07	7.125	4.3125	2.8125	.551	.551	6.875	1.375
2"	F05/F07	7.125	4.50	3.25	.551	.551	7.500	1.895
2 1/2"	F07/F10	14.5625	4.25	3.9375	.669	.669	9.000	2.375
3"	F10/F12	15.75	5.25	5.00	.906	.866	10.250	2.875
4"	F10/F12	15.75	6.14	5.335	.906	.866	11.42	3.834

Part List for Clamp and Weld Valves

Item Number	Part Number	Description	Material	Qty.
1	Ball - 3 - 1 - Size	Body	A351-CF8M	1
2	Ball - 3 - 2C - Size	Clamp End Connector	A351-CF8M	3
2	Ball - 3 - 2W - Size	Weld End Connector	A351-CF8M	3
3	Ball - 3 - 3 - Size	Ball	A351-CF8M	1
* 4	Ball - 3 - 4L - Size	Seat Large	PTFE	2
* 4	Ball - 3 - 4S - Size	Seat Small	PTFE	1
* 4	Ball - 3 - 4B - Size	Seat Back	PTFE	1
* 5	Ball - 3 - 5 - Size	Gasket	PTFE	1
* 6	Ball - 3 - 6 - Size	Thrust Washer	PTFE	2
* 7	Ball - 3 - 7 - Size	O -Ring	Viton	1
* 8	Ball - 3 - 8 - Size	Stem Packing	PTFE	1
9	Ball - 3 - 9 - Size	Ring	AISI-316	1
10	Ball - 3 - 10 - Size	Bevel Washer	AISI-301	3
11	Ball - 3 - 11 - Size	Stop Pin	AISI-316	1
12	Ball - 3 - 12 - Size	Nut	AISI- 304	2
13	Ball - 3 - 13 - Size	Stem	AISI-316	1
14	Ball - 3 - 14 - Size	Handle	AISI-304	1
15	Ball - 3 - 15 - Size	Washer	AISI-304	16
16	Ball - 3 - 16 - Size	Bolt	AISI-304	16
17	Ball - 3 - 17 - Size	Prevailing Device	AISI-304	1
18	Ball - 3 - 18 - Size	Nut Handle	AISI-304	1
19	Ball - 3 - 19 - Size	Body Cap	A351-CF8M	1
*Kit	Ball - 3 - Kit - Size	Replacement Seal kit	PTFE / Viton	1



BALL VALVE TORQUE...

3-Way full port stainless steel 316 sanitary ball valve clamp and weld end. To convert In / LBS to Foot LBS X .083.

1/2"	- Breakaway Torque ---	79	In-LBS
3/4"	- Breakaway Torque ---	85	In-LBS
1"	- Breakaway Torque ---	110	In-LBS
1 1/2"	- Breakaway Torque ---	290	In-LBS
2"	- Breakaway Torque ---	680	In-LBS
2 1/2"	- Breakaway Torque ---	1287	In-LBS
3"	- Breakaway Torque ---	1770	In-LBS
4"	- Breakaway Torque ---	2035	In-LBS

BALL VALVES

BALL VALVES...

Ball Valves are used in a wide variety of high pressure applications. A full unrestricted flow allows no product restrictions through the valve. Thus, allowing easy diversion.

VNE offers TWO and THREE way ball valves made of T316 (CF8M) stainless steel. Ball Valves are available in Manual, Pneumatically Actuated, and Electrically Actuated versions. We also offer a full line of control options. Limit switches, Solenoids, and Positioners can be included with your automated valve assembly. VNE Ball Valves feature PTFE seats that are easily removed. Clamp and Weld ends are standard. Other connections are available upon request. 1/2" - 4" sizes are available.



BALL VALVE SPECIFICATIONS...

Size:	1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4"
Material:	Passivated 316 Stainless Steel (ASTM A351, CF8M)
Connections:	Clamp, Buttweld and Orbital Weld - other connections available upon request

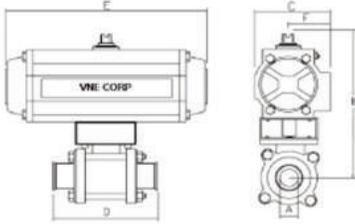
ORDERING SPECIFICATIONS...

Specify:	<ul style="list-style-type: none">• Quantity• Product description or Part No.• Size
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IMPORTANT FEATURES...

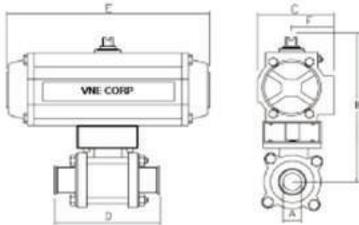
- 100% Tested
- Valves marked with heat numbers for full identification and traceability
- Available with pneumatic and electric actuators
- Conform to 3A Sanitary Standards for Ball-Type Valves. Standard Number 68-00. Certificate Authorization Number 3511. Seats and Seals are FDA approved.

Dimensions 2-way Spring Return Actuated Valve



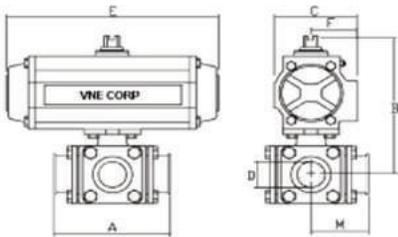
Valve Size	A	B	C	D	E	F	Weight	Cv Value
1/2	0.38	6.15	2.79	3.50	5.49	1.61	4.16	9
3/4	0.63	6.33	2.79	3.98	5.49	1.61	4.46	26
1	0.88	6.87	3.17	4.49	6.38	1.77	6.75	61
1 1/2	1.38	8.05	3.72	5.51	8.15	2.07	12.70	193
2	1.88	8.89	4.85	6.14	10.69	2.68	22.80	432
2 1/2	2.38	12.15	5.39	7.76	12.91	2.87	41.88	728
3	2.88	12.96	5.83	9.02	14.41	3.15	51.40	1125
4	3.83	15.68	7.350	9.57	16.93	3.94	111.20	1986

Dimensions 2-way Air to Air Actuated Valve



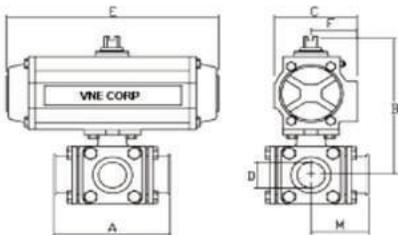
Valve Size	A	B	C	D	E	F	Weight	Cv Value
1/2	0.38	5.18	1.77	3.50	4.65	0.89	2.62	9
3/4	0.63	5.36	1.77	3.98	4.65	0.89	2.92	26
1	0.88	6.44	2.79	4.49	5.49	1.61	5.03	61
1 1/2	1.38	7.40	3.17	5.51	6.38	1.77	9.02	193
2	1.88	7.94	3.72	6.14	8.15	2.07	11.66	432
2 1/2	2.38	10.85	4.17	7.76	9.35	2.30	25.35	728
3	2.88	11.19	4.17	9.02	9.35	2.30	32.03	1125
4	3.83	13.30	5.39	9.57	12.91	2.87	63.91	1986

Dimensions 3-way Spring Return Actuated Valve



Valve Size	A	B	C	D	E	F	M	Weight	Cv Value
1/2	4.65	7.17	3.17	0.38	6.38	1.77	2.33	7.97	L-8-T-6
3/4	5.00	7.29	3.17	0.63	6.38	1.77	2.50	8.97	L-17 T-13
1	6.00	6.92	3.72	0.88	8.15	2.07	3.00	13.94	L-25 T-19
1 1/2	6.88	8.38	4.85	1.38	10.69	2.68	3.44	28.40	L-62 T-46
2	7.50	10.08	5.83	1.88	14.41	3.15	3.75	50.76	L-148 T-92
2 1/2	9.00	12.68	7.350	2.38	16.93	3.94	4.50	93.04	L-247 T-156
3	10.25	13.74	7.350	2.88	16.93	3.94	5.13	110.04	L-351 T-230

Dimensions 3-way Air to Air Actuated Valve

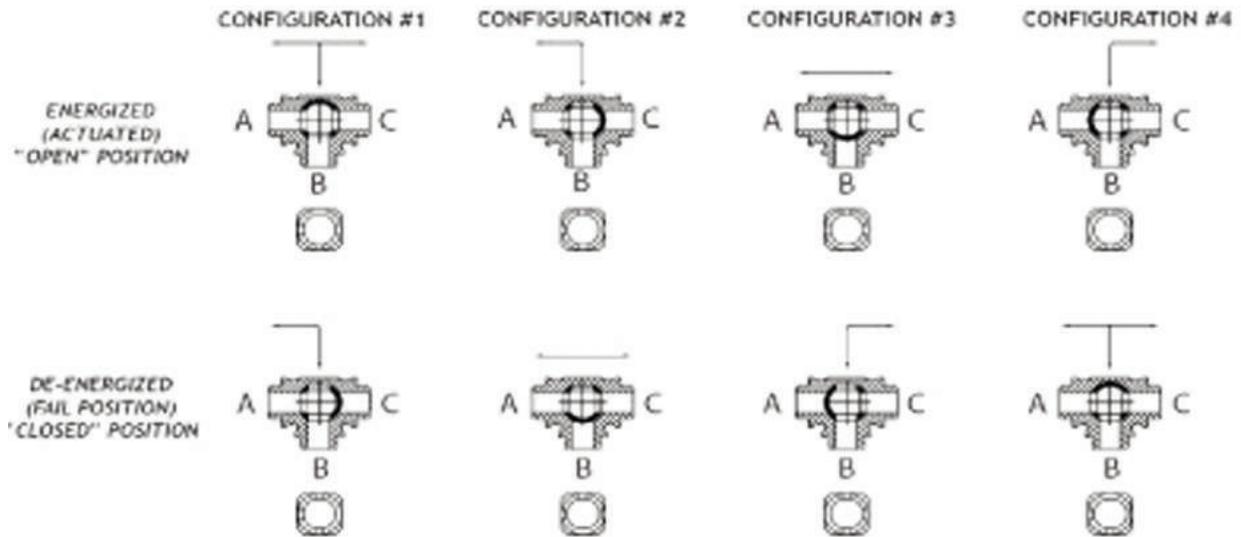


Valve Size	A	B	C	D	E	F	M	Weight	Cv Value
1/2	4.65	5.28	2.79	0.38	5.49	1.61	2.33	6.25	L-8 T-6
3/4	5.00	5.40	2.79	0.63	5.49	1.61	2.50	7.25	L-17 T-13
1	6.00	5.85	2.79	0.88	5.49	1.61	3.00	9.25	L-25 T-19
1 1/2	6.88	7.42	3.72	1.38	8.15	2.07	3.44	19.51	L-62 T-46
2	7.50	8.31	4.17	1.88	9.35	2.30	3.75	21.39	L-148 T-92
2 1/2	9.00	10.29	5.39	2.38	12.91	2.87	4.50	45.75	L-247 T-156
3	10.25	11.36	5.39	2.88	12.91	2.87	5.13	62.75	L-351 T 230

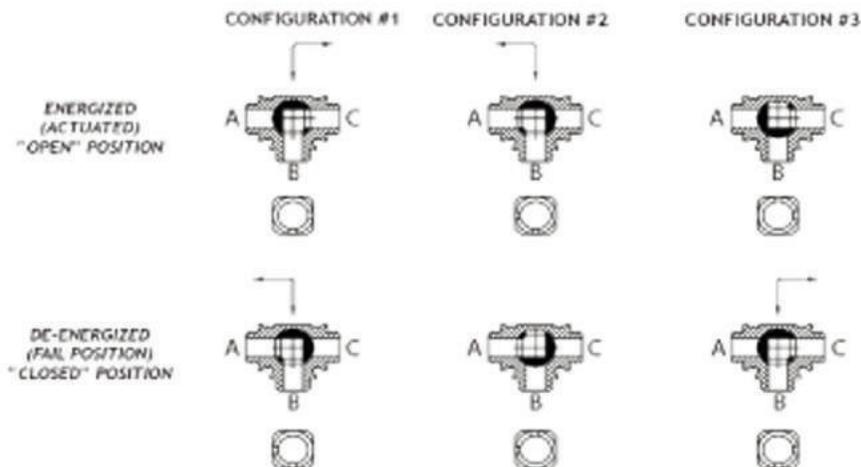
Dimensions shown are for assemblies sized for 80 PSI air supply. 1.2 Safety factor clean liquid products

3-WAY BALL VALVE CONFIGURATION OPTIONS Standard Actuator (CW to Close, CCW to Open)

T-Port Design

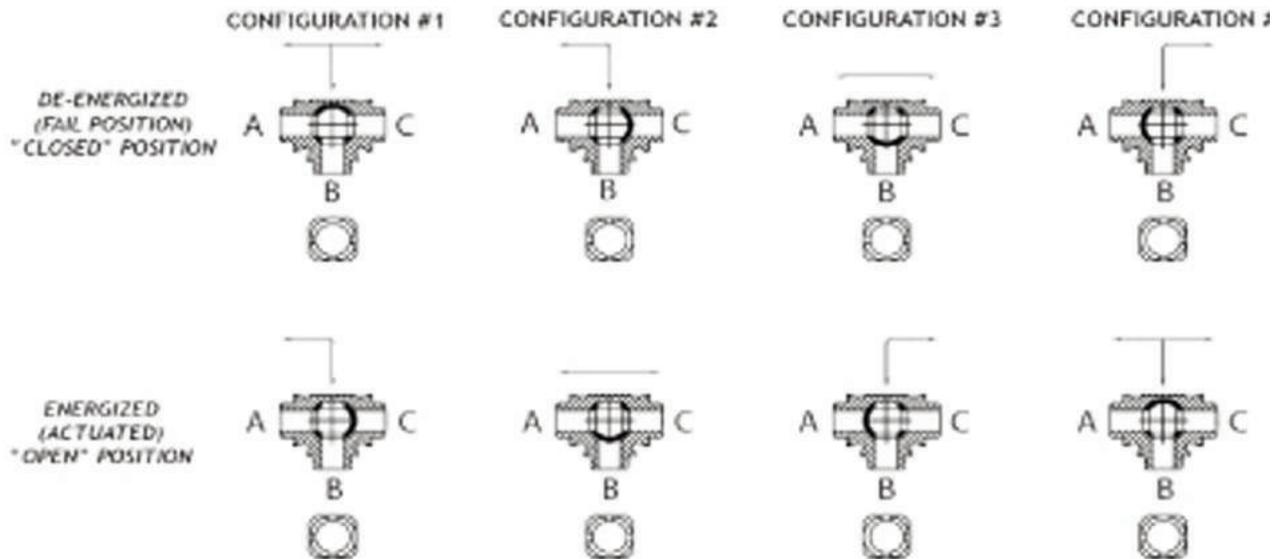


L-Port Design

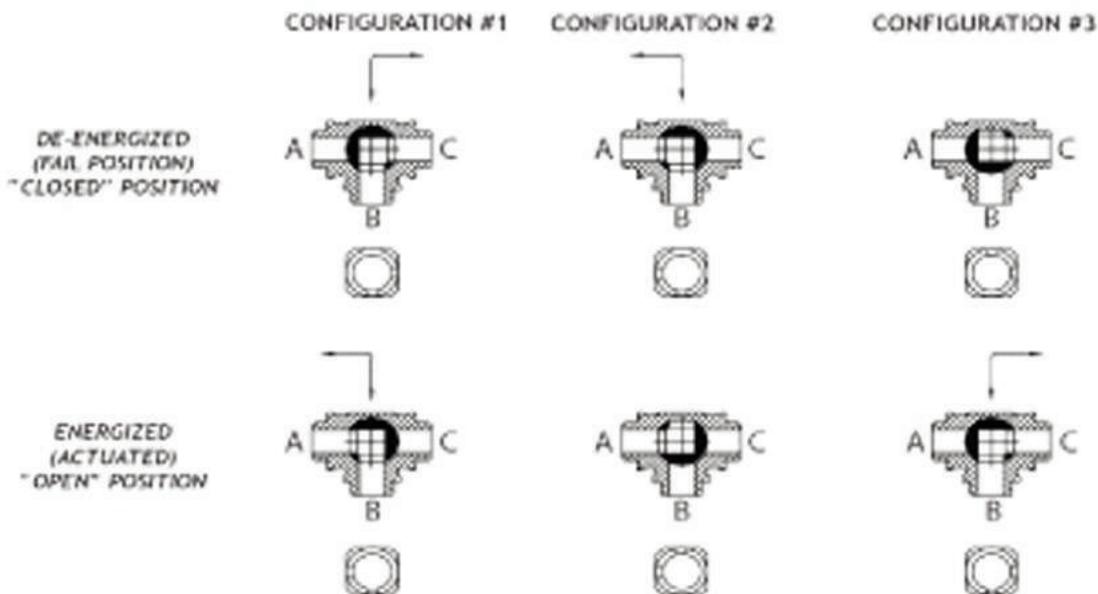


3-WAY BALL VALVE CONFIGURATION OPTIONS Reverse - Acting Actuator (CCW to Close, CW to Open)

T-Port Design



L-Port Design



COMPRESSION VALVE

INFORMATION

- One piece stem with O-Ring construction (easy seal replacement and positive shut-off)
- Viton O-Ring standard (others available upon request)
- Clamp connections are standard
- Full Polished ID and OD
- All metal contact surfaces of T316L Stainless Steel
- Sizes range from 1.0" through 3.0"
- Surface finish meets 3A, FDA and USDA standards. Seats and Seals are FDA approved.

PARTS BREAKDOWN

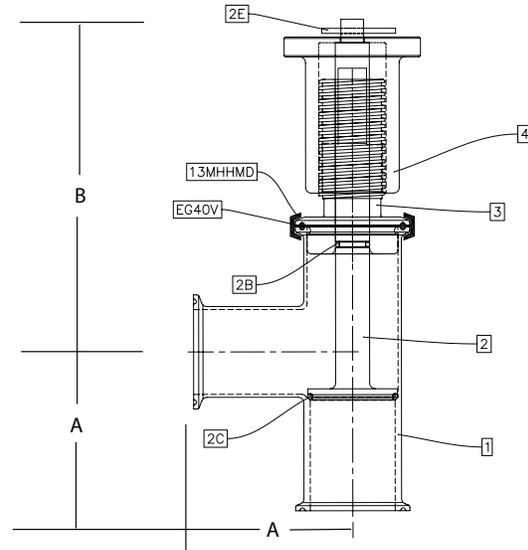
1. Body
2. Stem
- 2B. O-Ring Stem Seal
- 2C O-Ring Stem Seat
- 2E Cotter Pin
3. Bonnet
4. Handle

EG40V(SIZE)=Viton Clamp Gasket

13MHHMD(SIZE)-H=Clamp

Max. Product Pressure 150 PSI

Max Temperature 200°F



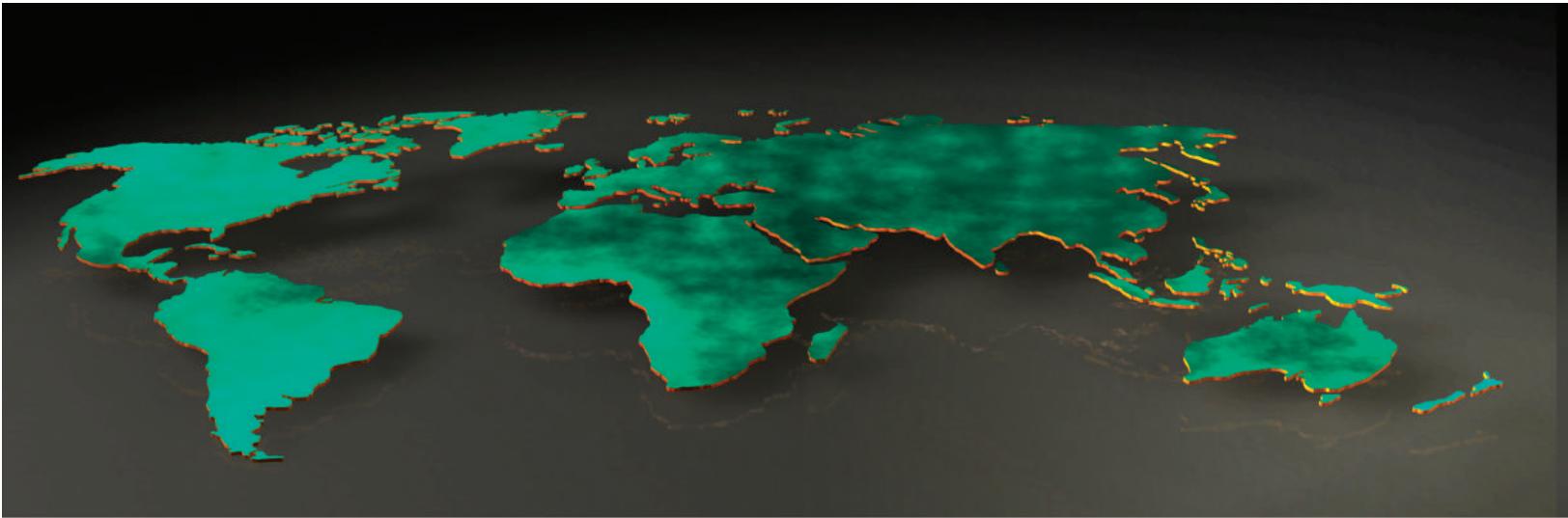
PART NUMBER SEQUENCE WHEN ORDERING COMPLETE VALVE:

EG60C (compression valve) 7 (tee style) R (rubber) 2.0 (size) Example: EG60C - 7 - R - 1.5

PART NUMBER SEQUENCE WHEN ORDERING REPLACEMENT PARTS:

EG60C (compression valve) 7 (tee style) R (rubber) 2.0 (size) - item Example: EG60C - 7 - R - 1.5 - O-Ring stem seat

Valve Size	Overall Length			Approx WT LBS
	A	B		
		MIN	MAX	
1.0	2.375	5.750	6.375	2.25
1.5	2.750	8.000	9.625	6.3
2.0	3.500	8.750	11.000	9.9



vnestainless.com



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