

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

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

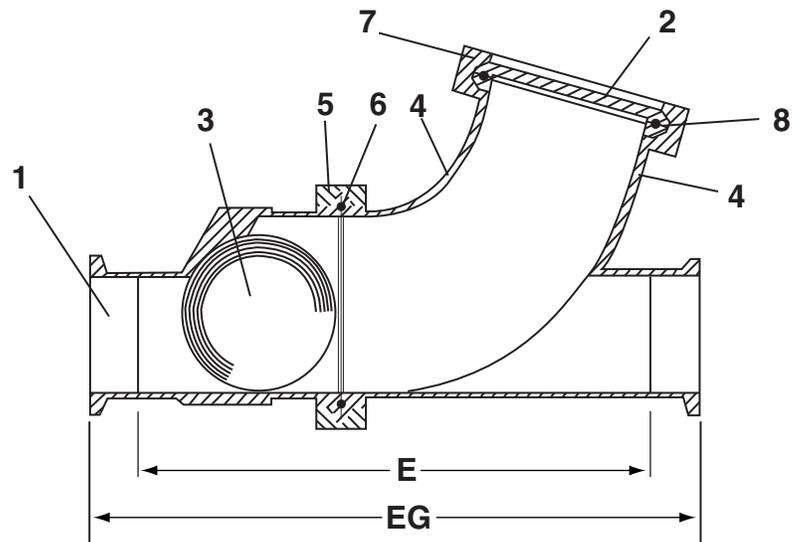
BALL CHECK VALVE

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.

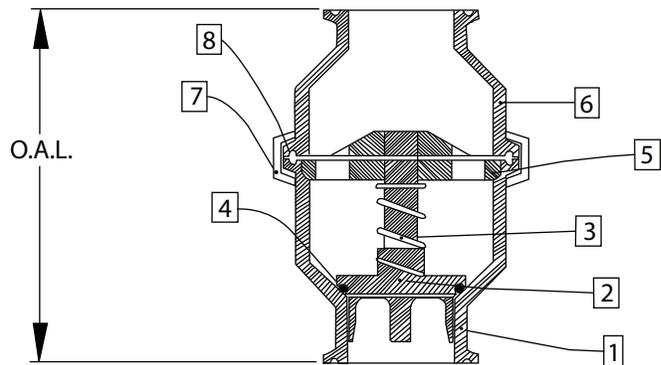
SPRING CHECK VALVE

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

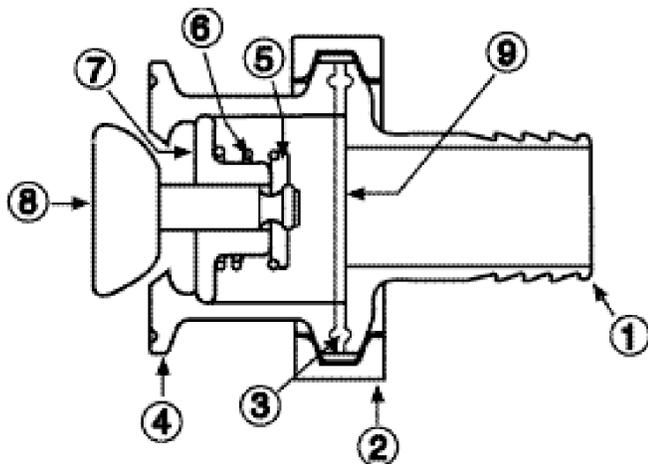
Overall Length			
Valve Size	Standard Clamp	Weld and Other	Approx WT LBS
.5"	3 1/2	A.O.R	2.2
.75"	3 1/2	A.O.R.	2.2
1.0"	4 1/8	A.O.R	3.5
1.5"	4 9/16	A.O.R.	3.5
2.0"	5 1/16	A.O.R.	5.4
2.5"	5 3/8	A.O.R.	6
3.0"	6 1/8	A.O.R.	6.25
4.0"	8 1/8	A.O.R.	16

AIR BLOW CHECK VALVE

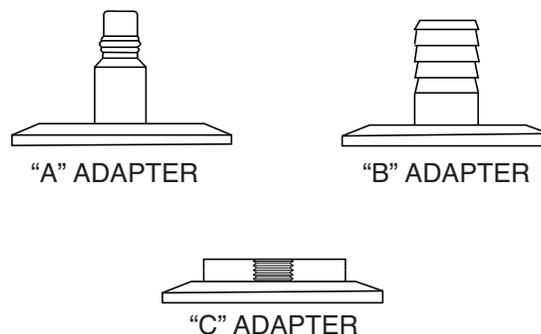
ILLUSTRATION

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

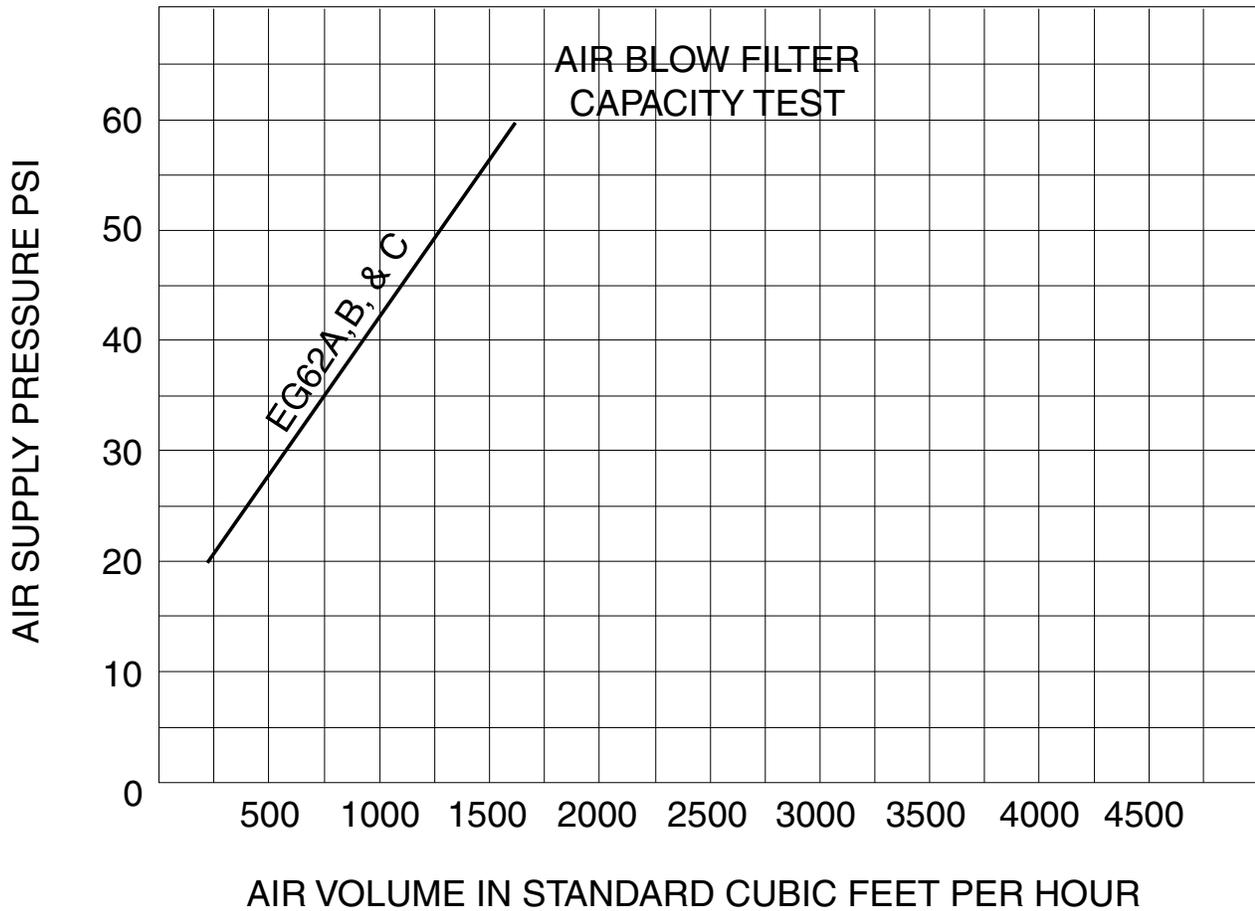
ABV8-V = Viton® Stem

9. FILTER DISC

ABV9
50 / PKG.

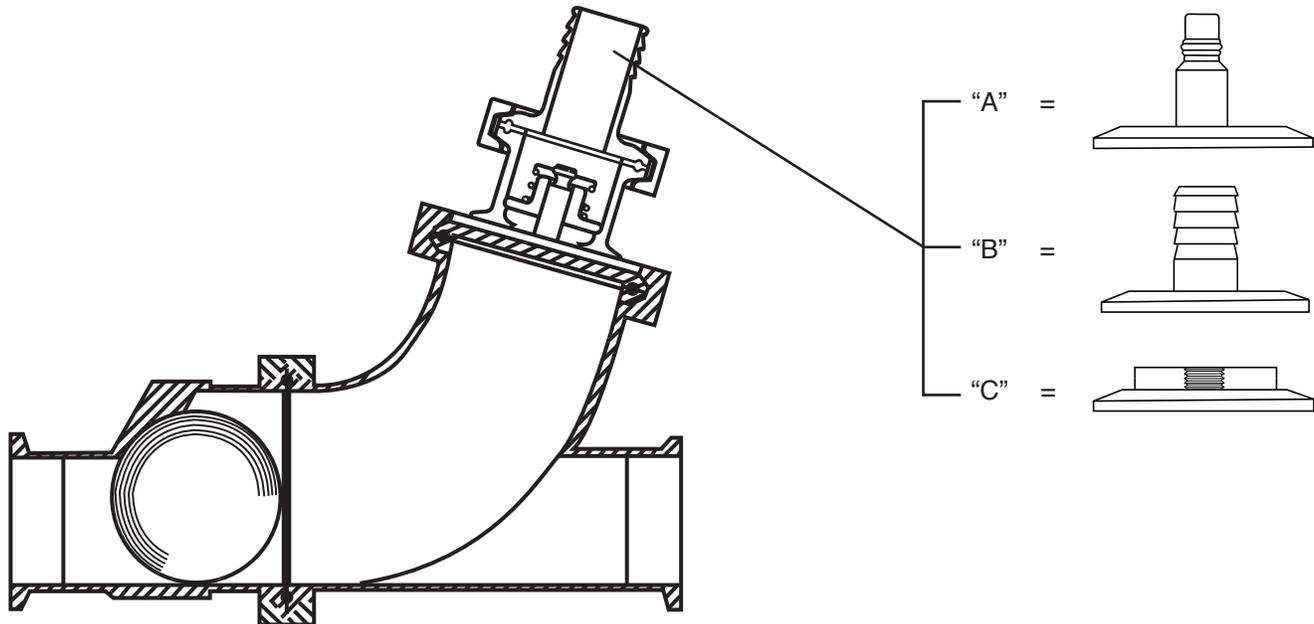
AIR BLOW CHECK VALVE

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