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:

CHECK VALVES

STAINLESS STEEL VALVES

PRODUCT CATALOG

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

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Actual Size</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve Size</td>
<td>1 &amp; 4 Body</td>
<td>2 Cap 5 &amp; 7 Clamp 6 &amp; 8 Gasket 3 Ball EG Clamp E Weld Approx. Wt. Lbs.</td>
</tr>
<tr>
<td>1.5</td>
<td>1.5”</td>
<td>2.5”</td>
</tr>
<tr>
<td>2.0”</td>
<td>2.0”</td>
<td>3.0”</td>
</tr>
<tr>
<td>2.5”</td>
<td>2.5”</td>
<td>4.0”</td>
</tr>
<tr>
<td>3.0”</td>
<td>3.0”</td>
<td>4.5”</td>
</tr>
<tr>
<td>*3.0”</td>
<td>3.0”</td>
<td>4.0”</td>
</tr>
</tbody>
</table>

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” = 13MHHM1.5 - H
   Body Clamp 1.0” and 1.5” = 13MHHM2.5 - H
   Body Clamp 2.0” = 13MHHM3.0 - H
   Body Clamp 2.5” = 13MHHM4.0 - H
   Body Clamp 3.0” = 13MHHM5.0 - 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

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Standard Clamp</th>
<th>Weld and Other</th>
<th>Approx WT LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>.5”</td>
<td>3 1/2</td>
<td>A.O.R</td>
<td>2.2</td>
</tr>
<tr>
<td>.75”</td>
<td>3 1/2</td>
<td>A.O.R</td>
<td>2.2</td>
</tr>
<tr>
<td>1.0”</td>
<td>4 1/8</td>
<td>A.O.R</td>
<td>3.5</td>
</tr>
<tr>
<td>1.5”</td>
<td>4 9/16</td>
<td>A.O.R</td>
<td>3.5</td>
</tr>
<tr>
<td>2.0”</td>
<td>5 1/16</td>
<td>A.O.R</td>
<td>5.4</td>
</tr>
<tr>
<td>2.5”</td>
<td>5 3/8</td>
<td>A.O.R</td>
<td>6</td>
</tr>
<tr>
<td>3.0”</td>
<td>6 1/8</td>
<td>A.O.R</td>
<td>6.25</td>
</tr>
<tr>
<td>4.0”</td>
<td>8 1/8</td>
<td>A.O.R</td>
<td>16</td>
</tr>
</tbody>
</table>
Air Blow Check Valves are made of T316L Stainless Steel and are offered with EPDM or Viton® Elastomers.

**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.

Viton is registered by DuPont Dow Elastomers
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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>1 1/2”</th>
<th>2”</th>
<th>2 1/2”</th>
<th>3”</th>
<th>4”</th>
</tr>
</thead>
<tbody>
<tr>
<td>EG62A-6L</td>
<td>“A” Adapter Length</td>
<td>2.500</td>
<td>2.500</td>
<td>2.500</td>
<td>2.500</td>
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<tr>
<td>EG62B-6L</td>
<td>“B” Adapter O.D.</td>
<td>1.984</td>
<td>2.516</td>
<td>3.047</td>
<td>3.579</td>
<td>4.682</td>
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<tr>
<td>EG62C-6L</td>
<td>“C” Adapter Length</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
</tr>
<tr>
<td>EG62C-6L</td>
<td>“C” Adapter O.D.</td>
<td>1.984</td>
<td>2.516</td>
<td>3.047</td>
<td>3.579</td>
<td>4.682</td>
</tr>
</tbody>
</table>

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AIR BLOW CHECK VALVE

DISPOSABLE AIR FILTER MEDIA CAPACITY TEST

Air Supply Pressure (PSI) vs. Air Volume in Standard Cubic Feet per Hour.

- **EG62A, B, & C**

The graph shows the relationship between air supply pressure and air volume for disposable air filter media capacity test.
AIR BLOW CHECK VALVE

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

<table>
<thead>
<tr>
<th>CLAMP</th>
<th>EG45ABA-6 SIZE = “A” Connection</th>
<th>WELD</th>
<th>E45WWABA-6 SIZE = “A” Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EG45ABB-6 SIZE = “B” Connection</td>
<td></td>
<td>E45WWABB-6 SIZE = “B” Connection</td>
</tr>
<tr>
<td></td>
<td>EG45ABC-6 SIZE = “C” Connection</td>
<td></td>
<td>E45WWABC-6 SIZE = “C” Connection</td>
</tr>
</tbody>
</table>

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

* For dimensional information see individual components