TITAN FLOW CONTROL, INC.

SWING CHECK VALVE • WAFER TYPE • SINGLE DISC

ASME CLASS 150 • CARBON AND STAINLESS STEEL

MODELS: CV 32-CS
(Carbon - Viton)

CV 32-SS
(Stainless - PTFE)

FEATURES

◊ ECONOMICAL DESIGN
LOW WEIGHT AND SHORT LAYING LENGTH PRODUCE SAVINGS IN INITIAL COST, SPACE REQUIREMENTS, AND INSTALLATION WHEN COMPARED TO FULL-BODY, SWING-TYPE CHECK VALVES.

◊ MINIMAL HEAD LOSS
HEAD LOSS IS MINIMIZED BY PROVIDING A SHORT, STRAIGHT AND VIRTUALLY UNOBSTRUCTED FLOW PATH. ADDITIONALLY, THE SPRING-LOADED DISC IS DESIGNED WITH VERY LOW CRACKING PRESSURE WHICH REDUCES THE AMOUNT OF ENERGY REQUIRED TO OPEN THE VALVE.

◊ QUICK CLOSURE TO REDUCE WATER HAMMER
SHUT-OFF IS ACHIEVED VIA THE FULLY AUTOMATIC, SPRING-ASSISTED DISC THAT CLOSES NEAR ZERO FLOW VELOCITY. THE LIGHTWEIGHT, SINGLE DISC DESIGN CREATES A POSITIVE SHUTOFF PRIOR TO FLOW REVERSAL WHICH HELPS TO KEEP SURGES TO A MINIMUM.

◊ DURABLE, HIGH QUALITY DESIGN
THE CV32 CHECK VALVE IS AVAILABLE IN EITHER CARBON STEEL OR STAINLESS STEEL BODY CONFIGURATIONS, WHICH ALLOW IT TO PERFORM WELL IN HIGHER TEMPERATURE APPLICATIONS. THE CARBON STEEL UNITS ARE EPOXY PAINTED. ADDITIONALLY, BOTH MODELS FEATURE ANTI-CORROSIVE, STAINLESS STEEL TRIM (DISC, SPRING, SHAFT) AS STANDARD.

◊ RESILIENT SOFT SEATS
RESILIENT SOFT SEATS (VITON AND PTFE O-RING) COUPLED WITH PRECISION MACHINED SEALING SURFACES HELP TO ENSURE A BUBBLE TIGHT SEAL THAT MEETS OR EXCEEDS API 598 TEST REQUIREMENTS.

MARKETS:
GENERAL INDUSTRY, CHEMICAL, PETROCHEMICAL, POWER, AND FOOD & BEVERAGE

SERVICE:
INTENDED FOR LIQUID SERVICE THAT IS STEADY, CLEAN (NO ABRASIVES OR SOLIDS) AND NON-PULSATING. FLOW RATE SHOULD NOT EXCEED 15 FT/SEC. NOT RECOMMENDED FOR STEAM OR RECIPROCATING COMPRESSOR SERVICE.

PTFE PROPERTIES:
RECOMMENDED FOR MOST CHEMICAL ENVIRONMENTS INCLUDING ACIDS, BASES, AND OILS. OFFERS EXCELLENT TEAR, ABRASIVE, CHEMICAL, ACID, AND ALKALI RESISTANCE. NOT RECOMMENDED FOR HIGH PRESSURE STEAM OR LARGE TEMPERATURE VARIATION APPLICATIONS.

VITON PROPERTIES:
OFFERS A BROAD RANGE OF CHEMICAL RESISTANCE AND EXCELLENT HEAT RESISTANCE. GOOD MECHANICAL PROPERTIES AND COMPRESSITION SET RESISTANCE. OFTEN USED IN APPLICATIONS WHERE NOTHING ELSE WILL WORK. FAIR LOW TEMPERATURE RESISTANCE AND LIMITED HOT-WATER RESISTANCE AND SHRINKAGE.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.
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SWING CHECK VALVE • WAFER TYPE
SINGLE DISC
MODELS: CV 32-CS (Carbon - Viton Seat)
CV 32-SS (Stainless - PTFE Seat)

1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer’s discretion. All materials conform to ASTM specifications.
2. Denotes recommended spare parts.

DIMENSIONS AND PERFORMANCE DATA

BILL OF MATERIALS

<table>
<thead>
<tr>
<th>No.</th>
<th>PART</th>
<th>CV 32-CS</th>
<th>CV 32-SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Carbon Steel A216 Gr.WCB</td>
<td>Stainless Steel A351 Gr. CF8M</td>
</tr>
<tr>
<td>2</td>
<td>Seat (1)</td>
<td>Viton O-Ring</td>
<td>PTFE Commercial O-Ring</td>
</tr>
<tr>
<td>3</td>
<td>Disc (1)</td>
<td>Stainless Steel Type 316</td>
<td>Stainless Steel Type 316</td>
</tr>
<tr>
<td>4</td>
<td>Plug</td>
<td>Carbon Steel ASTM A307B</td>
<td>Stainless Steel Type 316</td>
</tr>
<tr>
<td>5</td>
<td>Spring (2)</td>
<td>Stainless Steel Type 304</td>
<td>Stainless Steel Type 304</td>
</tr>
<tr>
<td>6</td>
<td>Spacer</td>
<td>PTFE Commercial</td>
<td>PTFE Commercial</td>
</tr>
<tr>
<td>7</td>
<td>Shaft</td>
<td>Stainless Steel Type 316</td>
<td>Stainless Steel Type 316</td>
</tr>
<tr>
<td>8</td>
<td>Eye Bolt</td>
<td>Carbon Steel</td>
<td>Carbon Steel</td>
</tr>
</tbody>
</table>

Separate drawings for flanged and welded models are available. Please request certified drawings when required.

1. Dimensions, weights, and flow coefficients are for reference only. When required, request certified drawings.
2. Denotes recommended spare parts.

ASME Class 150

1. The listed pressure and temperature ratings for the valve’s body material per ASME B16.5. Max temperature limits have been added for seat and spring materials.
2. As the temperature increases, the load capacity of the spring diminishes significantly. At higher temperatures, a different material spring may be required. Please consult for specific application assistance.
3. Max and min temperatures are for reference only. Prolonged use at these temperatures is not recommended for optimal service life.

As Titan FCI reserves the right to make design and specification changes to improve our products without prior notification. When required, request certified drawings. TITAN is a registered trademark of Titan Flow Control Incorporated.

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Illustrations are representative of the CV 32-CS/SS. Please request certified drawings when required.

1. Dimensions, weights, and flow coefficients are for reference only. When required, request certified drawings.
2. Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10” and lower and a tolerance of ±0.12 in (±3.0 mm) for sizes 12” and larger.
3. Cracking pressure is for horizontal installations only. For vertical installations, please consult factory.

PRESSURE/TEMPERATURE RATING

Class 150
Carbon Steel A216 Gr.WCB Stainless Steel A351 Gr. CF8M
WOG (Non-shock) 285 PSI @ 100 °F 275 PSI @ 100 °F

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REFERENCES & CODES

ASME B16.34 Steel Valves - Flanged, Threaded, & Welding Ends
API 594 Face-to-Face & End-to-End Dimensions of Valves
ASME B16.5 Pipe Flanges & Flanged Fittings
API 598 Valve Inspection and Testing
MSS SP-6 Standard Finishes for Connecting-end Flanges
MSS SP-25 Standard Marking System for Valves
MSS SP-55 Quality Standard for Valve Castings

PRESSURE-TEMPERATURE RATINGS

Stainless Steel A351 Gr.CF8/A182 ASME Class 150
Carbon Steel A216 Gr.WCB/ASME Class 150

1. The above chart displays the pressure-temperature ratings for the valve’s body material per ASME B16.5. Max temperature limits have been added for seat and spring materials.

REFERENCE STANDARDS & CODES

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