

CHECK VALVES · SWING PATTERN

# CVFSA150 Flanged Stainless Steel Swing Check Valve

ANSI 150 flanged 316 stainless steel swing check valve with an integral metal seat. The full bore body and recessed disc pocket give a large flow rate and low head loss when fully open. DN50 to DN300, 0 to 20 bar.

316 STAINLESS STEEL

DN50 – DN300

ANSI 150 · 20 BAR

INTEGRAL METAL SEAT



## FEATURES

- Sizes 50 mm to 300 mm
- ANSI 150 flange pattern
- 316 stainless steel body (ASTM A351-CF8M)
- Integral metal seat
- Pressure range 0 to 20 bar
- Media temperature 0 to 220 °C
- Full bore design with a recess for the disc to sit in when fully open — large flow rate, low head loss

## APPLICATIONS

- Liquid fuels
- Diesel
- Oils

## STANDARDS

- Designed to ASME B16.34
- Flanges to ASME/ANSI B16.5
- Face to face to ASME B16.10
- Testing and inspection to API 598

## OPERATIONAL SPECIFICATIONS

| Model        | DN (mm) | Pressure range | Media temperature | Weight (kg) |
|--------------|---------|----------------|-------------------|-------------|
| CVFSA150-050 | 50      | 0 to 20 bar    | 0 to 220 °C       | 12          |
| CVFSA150-065 | 65      | 0 to 20 bar    | 0 to 220 °C       | 15          |
| CVFSA150-080 | 80      | 0 to 20 bar    | 0 to 220 °C       | 21          |
| CVFSA150-100 | 100     | 0 to 20 bar    | 0 to 220 °C       | 36          |
| CVFSA150-125 | 125     | 0 to 20 bar    | 0 to 220 °C       | 47          |
| CVFSA150-150 | 150     | 0 to 20 bar    | 0 to 220 °C       | 61          |
| CVFSA150-200 | 200     | 0 to 20 bar    | 0 to 220 °C       | 109         |
| CVFSA150-250 | 250     | 0 to 20 bar    | 0 to 220 °C       | 200         |
| CVFSA150-300 | 300     | 0 to 20 bar    | 0 to 220 °C       | 270         |

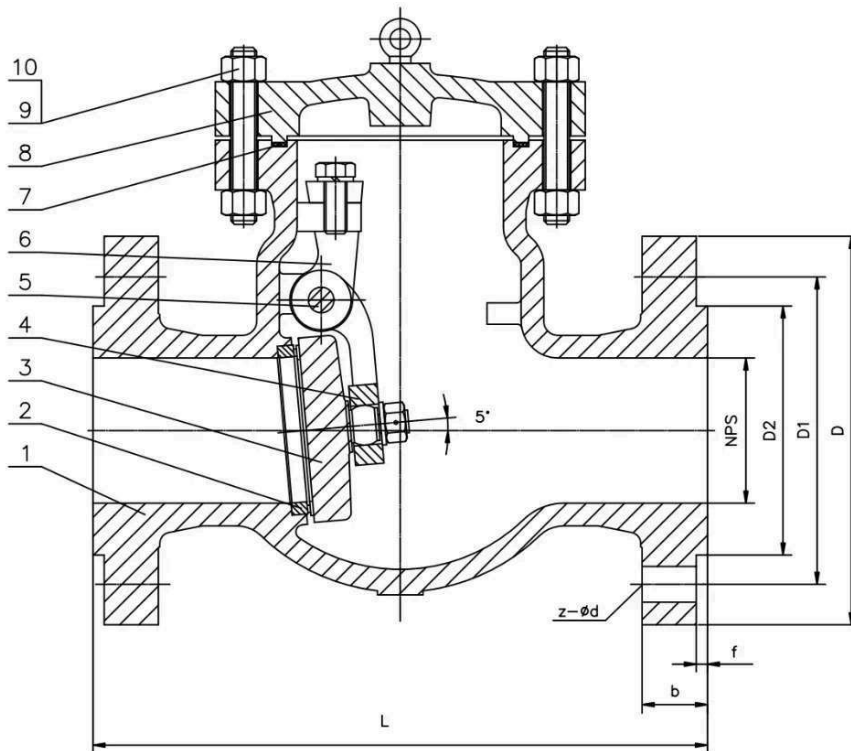
Other configurations can be manufactured upon request.

## DIMENSIONS

| Model        | NPS    | L   | D   | D1    | D2    | b    | f | z-d   |
|--------------|--------|-----|-----|-------|-------|------|---|-------|
| CVFSA150-050 | 2"     | 203 | 150 | 120.7 | 92.1  | 16.3 | 2 | 4-19  |
| CVFSA150-065 | 2 1/2" | 216 | 180 | 139.7 | 104.8 | 17.9 | 2 | 4-19  |
| CVFSA150-080 | 3"     | 241 | 190 | 152.4 | 127   | 19.5 | 2 | 4-19  |
| CVFSA150-100 | 4"     | 292 | 230 | 190.5 | 157.2 | 24.3 | 2 | 8-19  |
| CVFSA150-150 | 6"     | 356 | 280 | 241.3 | 215.9 | 25.9 | 2 | 8-22  |
| CVFSA150-200 | 8"     | 495 | 345 | 298.5 | 269.9 | 29   | 2 | 8-22  |
| CVFSA150-250 | 10"    | 622 | 405 | 362   | 323.8 | 30.6 | 2 | 12-26 |
| CVFSA150-300 | 12"    | 699 | 485 | 431.8 | 381   | 32.2 | 2 | 12-26 |

All dimensions in millimetres unless shown otherwise. L face-to-face, D flange OD, D1 bolt circle, D2 raised face, b flange thickness, f raised face height, z-d number and diameter of bolt holes.

## CONSTRUCTION DETAIL



| No | Name            | Material          |
|----|-----------------|-------------------|
| 1  | Body            | ASTM A351-CF8M    |
| 2  | Seat            | Integral material |
| 3  | Disc            | ASTM A351-CF8M    |
| 4  | Hinge           | ASTM A351-CF8M    |
| 5  | Hinge pin       | ASTM A276-316     |
| 6  | Support         | ASTM A351-CF8M    |
| 7  | Gasket          | 316 / graphite    |
| 8  | Bonnet          | ASTM A351-CF8M    |
| 9  | Bonnet bolt     | ASTM A193 Gr.B8   |
| 10 | Bonnet bolt nut | ASTM A194 Gr.8    |

Sectional view — item numbers as tabled alongside.

Intended for industrial applications only — do not use where pressures or temperatures can exceed those listed above. System designers must consider the failure modes of all components and provide adequate safeguards against personal injury or equipment damage. Designs, materials and specifications are subject to change without notice due to our continuing program of product development.