

## Ductile Iron Swing Check Valve with Lever & Weight PN16 Fig. VA5108

### Specification

- ✓ Design in accordance with EN 16767 and BS 5153
- ✓ AWWA C508 design available where applicable
- ✓ Ductile iron body and cover for high strength and durability
- ✓ Swing-type disc design provides full flow with low pressure drop
- ✓ Suitable for installation in horizontal or vertical pipelines with upward flow
- ✓ Available with outside lever and adjustable weight or lever and spring arrangement
- ✓ Flanged ends drilled to EN 1092-2 PN10 / PN16
- ✓ ANSI Class 125 flange drilling available upon request
- ✓ Rated working pressure: DN50–DN300: up to 25 bar / 300 psi  
DN350–DN600: up to 16 bar / 200 psi
- ✓ Size range: DN50–DN600

### Material Specification

| Part Name | Material          | Specification                |
|-----------|-------------------|------------------------------|
| Body      | Ductile Iron      | EN 1563 EN-GJS-450-10        |
| Cover     | Ductile Iron      | EN 1563 EN-GJS-450-10        |
| Hanger    | Ductile Iron      | EN 1563 EN-GJS-450-10        |
| Hinge Pin | Stainless Steel   | EN 10088X5CrNi18-10          |
| Gasket    | Graphite          |                              |
| Disc      | Ductile Iron      | EN 1563 EN-GJS-450-10        |
| Disc Trim | Bronze / EPDM&NBR | EN 1982 CuSn5Zn5Pb5 / EN 681 |
| Body Trim | Bronze            | EN 1982 CuSn5Zn5Pb5          |
| Lever     | Carbon Steel      | EN 10025 S235JR              |
| Weight    | Cast Gray Iron    | EN 1561 EN-GJL-250           |

### Corrosion Protection

- Internally and externally protected with Fusion Bonded Epoxy (FBE) coating
- Epoxy coating provides enhanced resistance against corrosion and environmental exposure

### Standards & Compliance

- ✓ EN 16767 — Metallic Check Valves
- ✓ BS 5153 — Swing Check Valves
- ✓ EN 1092-2 — Flanged Connections
- ✓ AWWA C508 — Swing Check Valves for Waterworks Service, where applicable
- ✓ EN 681 — Elastomeric sealing materials, applicable to rubber trim

### Features & Benefits

- ✓ Automatic non-return operation prevents reverse flow without external actuation
- ✓ Low pressure drop through the streamlined, full-flow body design
- ✓ Reliable backflow prevention protects pumps, pipelines and system equipment
- ✓ Lever & weight / lever & spring options provide operational flexibility for different system requirements
- ✓ Bronze or resilient rubber disc trim options to suit different service conditions
- ✓ Ductile iron construction provides excellent mechanical strength and long service life
- ✓ Stainless steel hinge pin and spring components provide enhanced corrosion resistance
- ✓ Suitable for horizontal and vertical upward-flow installation
- ✓ Robust construction suitable for water distribution and general industrial services
- ✓ Wide size range up to DN600

### PRESSURE/ TEMPERATURE RATING

- ✓ 16 bar from -10°C to 90°C

### HYDROSTATIC TEST PRESSURE

- ✓ Shell - 24 bar    ✓ Seat - 17.6 bar

### APPLICATION

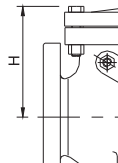
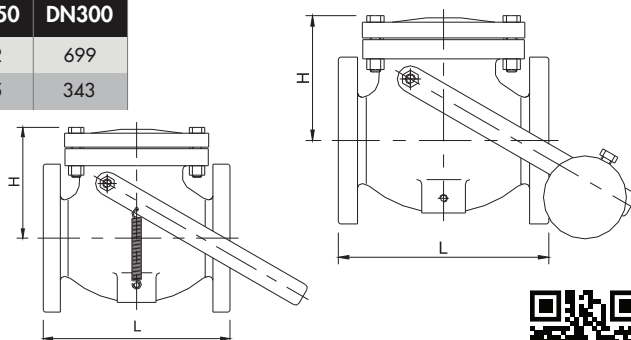
Suitable for:

|                             |                                          |
|-----------------------------|------------------------------------------|
| Potable water systems       | Chilled and heating water systems        |
| Water distribution networks | Water treatment plants                   |
| Pump discharge lines        | Irrigation systems                       |
| HVAC systems                | General industrial water services        |
|                             | Subject to certified valve configuration |

### Main Dimensions (mm)

| Size | DN50 | DN65 | DN80 | DN100 | DN125 | DN150 | DN200 | DN250 | DN300 |
|------|------|------|------|-------|-------|-------|-------|-------|-------|
| L    | 203  | 216  | 241  | 292   | 330   | 356   | 495   | 622   | 699   |
| H    | 121  | 135  | 141  | 168   | 182   | 215   | 267   | 305   | 343   |

| Size |                         | DN350 | DN400 | DN450 | DN500 | DN600 |
|------|-------------------------|-------|-------|-------|-------|-------|
| L    | Manufacturer's Standard | 787   | 914   | 965   | 1016  | 1219  |
|      | EN 558 Series 10        | 787   | 914   | 978   | 978   | 1295  |
|      | AWWA C508               | 787   | 914   | 1016  | 1016  | 1210  |
|      | H                       | 450   | 520   | 550   | 590   | 680   |

A technical drawing of a pipe fitting, likely a flange or elbow, shown in a side profile. It includes dimension lines indicating the overall length (L) and the height (H) of the fitting. The drawing is a line art illustration with some shading to indicate the 3D form.

### Notes

Specifications, materials and dimensions shown are subject to change without prior notice

