

Swing Check Valve with L&W

Lever & Counter Weight Swing Check Valve prevents backflow of the medium. The disc opens automatically if the medium flows in the direction indicated by the arrow on the valve body. Gravity assisted closure of the disc occurs when the flow stops or reverses. Lever & Counter Weight allows for reducing the valve stroke and for non-slam closure.



Design Features:

- ✦ Swing Check Valves are fully compliant with AWWA C508 and MSS SP71 standards.
- ✦ High strength ductile iron body used for lowering the weight and improving long term durability.
- ✦ All iron parts are coated inside & outside with fusion bonded epoxy for corrosion resistance per AWWA C550.
- ✦ Available with either metal seat or resilient seat.
- ✦ Bronze Seat Ring reduces wear and tear.
- ✦ Valve shall be installed in the horizontal position due to gravity operation of the disc.
- ✦ Installation in vertical position possible on request
- ✦ Simple design, top entry cover allows for access for cleaning, replacement and maintenance easy.
- ✦ NSF61 approved material available as option.

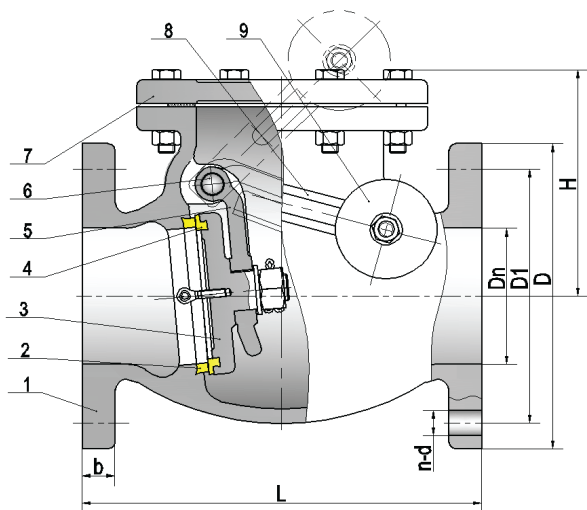
Typical Applications:

General Water Supply, Fire Fighting, HVAC, District Cooling & Sewage System

Technical Data:

| | |
|----------------------|----------------------|
| Design Standard: | AWWA C508 / MSS SP71 |
| Size Range: | 2" – 24" |
| Pressure Rating: | 200 psi |
| Working Temperature: | -10°C – 80°C |
| End Connection: | ANSI B16.1 / B16.5 |
| Face-to-Face: | AWWA C508 |
| Test & Inspection: | AWWA C508 / API 598 |

Swing Check Valves with L&W



Parts List & Materials

| No. | Parts Name | Materials | Standards |
|-----|------------|-----------------|-----------------|
| 1 | Body | Ductile Iron | ASTM A536 |
| 2 | Seat Ring | Bronze | ASTM B62 |
| 3 | Disc | Ductile Iron | ASTM A536 |
| 4 | Disc Ring | Bronze | ASTM B62 |
| 5 | Hinge | Ductile Iron | ASTM A536 |
| 6 | Hinge Pin | Stainless Steel | ASTM A276 SS410 |
| 7 | Bonnet | Ductile Iron | ASTM A536 |
| 8 | Lever | Carbon Steel | - |
| 9 | Weight | Ductile Iron | ASTM A536 |

Main Dimensions

unit: inch

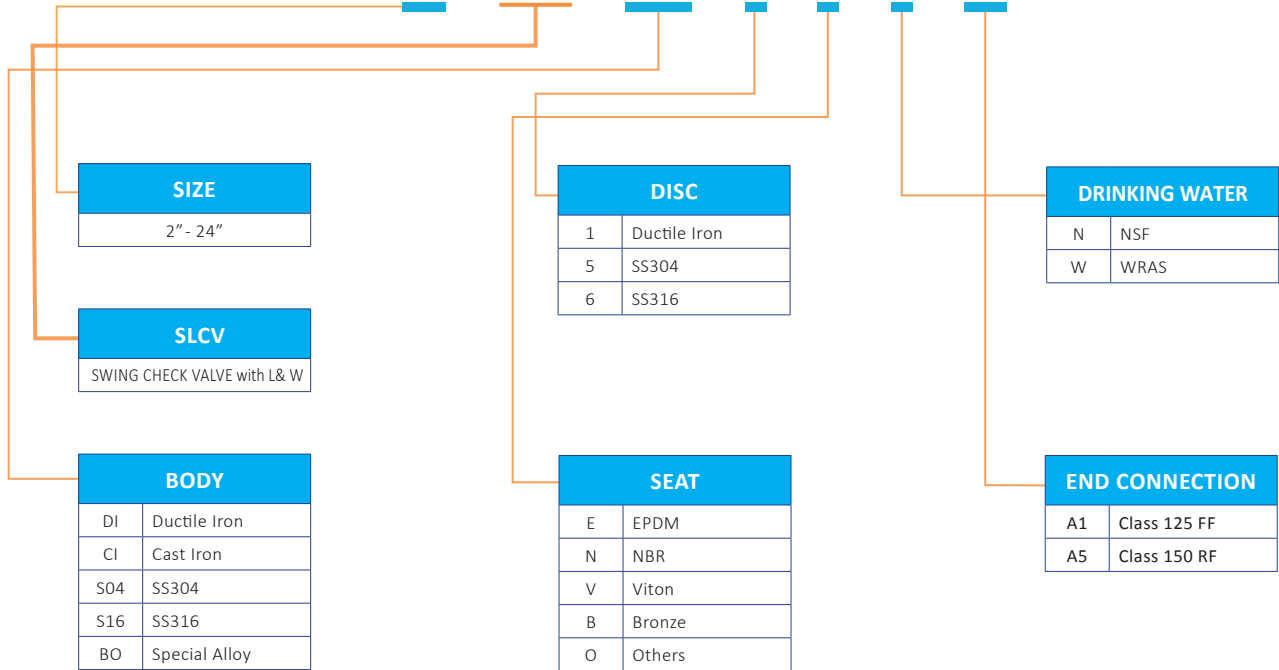
| NPS | L | D | D1 | b | n-d | H |
|--------|--------|--------|-------------------------------|-------------------------------|---------------------------------|--------|
| 2" | 8 | 6 | 4 ³ / ₄ | ⁵ / ₈ | 4 - ³ / ₄ | 5 |
| 2 1/2" | 8 1/2 | 7 | 5 1/2 | ¹¹ / ₁₆ | 4 - ³ / ₄ | 5 1/8 |
| 3" | 9 1/2 | 7 1/2 | 6 | ¹² / ₁₆ | 4 - ³ / ₄ | 6 |
| 4" | 11 1/2 | 9 | 7 1/2 | ¹⁵ / ₁₆ | 8 - ³ / ₄ | 6 3/4 |
| 5" | 13 | 10 | 8 1/2 | ¹⁵ / ₁₆ | 8 - ⁷ / ₈ | 7 3/4 |
| 6" | 14 | 11 | 9 1/2 | 1 | 8 - ⁷ / ₈ | 10 1/4 |
| 8" | 19 1/2 | 13 1/2 | 11 3/4 | 1 1/4 | 8 - ⁷ / ₈ | 13 1/8 |
| 10" | 24 1/2 | 16 | 14 1/4 | 1 1/4 | 12 - 1 | 15 1/8 |
| 12" | 27 1/2 | 19 | 17 | 1 1/4 | 12 - 1 | 16 3/4 |
| 14" | 31 | 21 | 18 3/4 | 1 3/4 | 12 - 1 1/8 | 17 3/4 |
| 16" | 36 | 23 1/2 | 21 1/4 | 1 3/4 | 16 - 1 1/8 | 20 1/8 |
| 18" | 33 1/2 | 25 | 22 3/4 | 1 3/4 | 16 - 1 1/4 | 27 5/8 |
| 20" | 40 | 27 1/2 | 25 | 1 3/4 | 20 - 1 1/4 | 29 3/4 |
| 24" | 48 | 32 | 29 1/2 | 2 | 20 - 1 3/8 | 33 3/4 |

unit: mm

| DN | L | D | D1 | b | n-d | H |
|-----|------|-----|-------|------|-------|-----|
| 50 | 203 | 152 | 120.7 | 15.9 | 4-19 | 124 |
| 65 | 216 | 178 | 139.7 | 17.5 | 4-19 | 129 |
| 80 | 241 | 191 | 152.4 | 19.1 | 4-19 | 153 |
| 100 | 292 | 229 | 190.5 | 23.9 | 8-19 | 170 |
| 125 | 330 | 254 | 215.9 | 23.9 | 8-22 | 196 |
| 150 | 356 | 279 | 241.3 | 25.4 | 8-22 | 259 |
| 200 | 495 | 343 | 298.5 | 28.6 | 8-22 | 332 |
| 250 | 622 | 406 | 362 | 30.2 | 12-25 | 383 |
| 300 | 699 | 483 | 431.8 | 31.8 | 12-25 | 425 |
| 350 | 787 | 533 | 476.3 | 35 | 12-29 | 450 |
| 400 | 914 | 597 | 539.8 | 36.6 | 16-29 | 512 |
| 450 | 851 | 635 | 577.9 | 39.7 | 16-32 | 702 |
| 500 | 1016 | 699 | 635 | 42.9 | 20-32 | 755 |
| 600 | 1219 | 813 | 749.3 | 47.7 | 20-35 | 856 |

PRODUCT SELECTION

VT - XX - SLCV - XXX - X - X - X - XX



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