



## CLASS 150~1500 SWING CHECK VALVE

Bolted cover,swing type disc

Threaded or welded seat ring

ASTM A216 WCB,A217 WC6,A351CF8,A351CF8M,

A351 CF3,A351 CF3M,A351 CN7M

## Standards compliance

Design and Manufacture: ANSIB16.34,API6D,BS11868

Face to face(end to end): ANSIB16.10,API6D

Flanged connection: 2~24~to ANSIB16.5

~~~~~22~,26~36~to MSS-SP-44

~~~~~to API605 on request

Butt welded end: ANSIB16.25

Test and inspection: API598,API6D

| Materials list |           |                                     |
|----------------|-----------|-------------------------------------|
| NO.            | Part name | Material                            |
| 12             | Disc nut  | Carbon steel/stainless steel        |
| 11             | Washer    | Carbon steel/stainless steel        |
| 10             | Hinge pin | Carbon steel/stainless steel        |
| 09             | Seat ring | CS+SS/SS/SS+STL(see body materials) |
| 08             | Disn      | CS+SS/SS/SS+STL(see body materials) |

| NO. | Part name      | WCB                    | LCB                    | WC6                     | WC9                     |
|-----|----------------|------------------------|------------------------|-------------------------|-------------------------|
| 07  | Bolt stud&nut  | A193 Gr B7/A194 Gr 2H  | A320 Gr L7/A194 Gr 4   | A193 Gr B16/A194 Gr 4/7 | A193 Gr B16/A194 Gr 4/7 |
| 06  | Cover bolt&nut | A193 Gr B7/A194 Gr 2H  | A320 Gr L7/A194 Gr 4   | A193 Gr B16/A194 Gr 4/7 | A193 Gr B16/A194 Gr 4/7 |
| 05  | Gasket         | Spiral wound/soft iron | Spiral wound/soft iron | spiral wound/SS304      | spiral wound/SS304      |
| 04  | Hinge yoke     | A216 Gr WCB            | A352 Gr LCB            | A217 Gr WC6             | A217 Gr WC9             |
| 03  | Hinge          | A216 Gr WCB            | A352 Gr LCB            | A217 Gr WC6             | A217 Gr WC9             |
| 02  | Cover          | A216 Gr WCB            | A352 Gr LCB            | A217 Gr WC6             | A217 Gr WC9             |
| 01  | Body           | A216 Gr WCB            | A352 Gr LCB            | A217 Gr WC6             | A217 Gr WC9             |

| NO. | Part name        | C5                     | C12                     | CF8                  | CF8M                   |
|-----|------------------|------------------------|-------------------------|----------------------|------------------------|
| 07  | Bracket stud&nut | A193 Gr B16/A194 Gr 4  | A193 Gr B16/A194 Gr 4/7 | A193 Gr B8/A194 Gr 8 | A193 Gr B8M/A194 Gr 8M |
| 06  | Cover bolt&nut   | A193 Gr B16/A194 Gr 4  | A193 Gr B17/A194 Gr 4/7 | A193 Gr B8/A194 Gr 8 | A193 Gr B8M/A194 Gr 8M |
| 05  | Gasket           | Spiral wound/soft iron | Spiral wound/SS304      | spiral wound/SS304   | spiral wound/SS316     |
| 04  | Hinge yoke       | A217 Gr C5             | A217 Gr C12             | A351 Gr CF8          | A351 Gr CF8M           |
| 03  | Hinge            | A217 Gr C5             | A217 Gr C12             | A351 Gr CF8          | A351 Gr CF8M           |
| 02  | Cover            | A217 Gr C5             | A217 Gr C12             | A351 Gr CF8          | A351 Gr CF8M           |
| 01  | Body             | A217 Gr C5             | A217 Gr C12             | A351 Gr CF8          | A351 Gr CF8M           |

Higher sizes are with dashpot arrangement to control the movement of the disc order to avoid slamming and water hammer.

## CLASS 150~1500 SWING CHECK VALVE

| Dimensions  |      |     |       |     |     |     |     |     |     |     |     |     |     |     |      |
|-------------|------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Class 150   |      |     |       |     |     |     |     |     |     |     |     |     |     |     |      |
| Size        | inch | 2   | 2-1/2 | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 14  | 16  | 18  | 20  | 24   |
| L,L1-RF.BW  | mm   | 203 | 216   | 214 | 292 | 330 | 356 | 495 | 622 | 699 | 787 | 864 | 978 | 978 | 1295 |
| L2-RTJ      | mm   | 216 | 229   | 254 | 305 | 343 | 368 | 508 | 635 | 717 | 800 | 876 | 991 | 991 | 1308 |
| H           | mm   | 155 | 190   | 200 | 225 | 245 | 260 | 350 | 390 | 410 | 435 | 530 | 570 | 625 | 675  |
| WT.(approx) | Kg   | 16  | 25    | 34  | 46  | 75  | 89  | 120 | 220 | 337 | 471 | 575 | 788 | 916 | 1275 |

| Dimensions  |      |     |       |     |     |     |     |     |     |     |     |     |     |      |      |
|-------------|------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Class 300   |      |     |       |     |     |     |     |     |     |     |     |     |     |      |      |
| Size        | inch | 2   | 2-1/2 | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 14  | 16  | 18  | 20   | 24   |
| L,L1-RF.BW  | mm   | 267 | 292   | 318 | 355 | 400 | 440 | 533 | 622 | 711 | 838 | 863 | 977 | 1016 | 1346 |
| L2-RTJ      | mm   | 283 | 308   | 333 | 371 | 416 | 460 | 549 | 638 | 727 | 854 | 879 | 994 | 1036 | 1368 |
| H           | mm   | 180 | 200   | 225 | 240 | 275 | 310 | 370 | 410 | 440 | 500 | 545 | 605 | 675  | 785  |
| WT.(approx) | Kg   | 26  | 32    | 53  | 73  | 110 | 157 | 234 | 384 | 450 | 650 | 800 | 970 | 1350 | 2210 |

| Dimensions  |      |     |       |     |     |     |     |     |     |     |     |      |      |      |  |
|-------------|------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
| Class 600   |      |     |       |     |     |     |     |     |     |     |     |      |      |      |  |
| Size        | inch | 2   | 2-1/2 | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 14  | 16   | 18   | 20   |  |
| L,L1-RF.BW  | mm   | 292 | 330   | 356 | 432 | 508 | 559 | 660 | 787 | 838 | 889 | 991  | 1092 | 1194 |  |
| L2-RTJ      | mm   | 295 | 333   | 359 | 435 | 511 | 562 | 664 | 791 | 841 | 892 | 994  | 1095 | 1200 |  |
| H           | mm   | 190 | 215   | 250 | 260 | 310 | 350 | 420 | 490 | 525 | 580 | 630  | 690  | 810  |  |
| WT.(approx) | Kg   | 33  | 49    | 62  | 95  | 120 | 195 | 360 | 465 | 725 | 875 | 1075 | 1475 | 1900 |  |

| Dimensions  |      |     |       |     |     |     |     |     |     |      |      |  |
|-------------|------|-----|-------|-----|-----|-----|-----|-----|-----|------|------|--|
| Class 900   |      |     |       |     |     |     |     |     |     |      |      |  |
| Size        | inch | 2   | 2-1/2 | 3   | 4   | 5   | 6   | 8   | 10  | 12   | 14   |  |
| L,L1-RF.BW  | mm   | 368 | 419   | 381 | 457 | 559 | 610 | 737 | 838 | 965  | 1029 |  |
| L2-RTJ      | mm   | 371 | 422   | 384 | 460 | 562 | 613 | 740 | 841 | 968  | 1038 |  |
| H           | mm   | 195 | 235   | 260 | 275 | 320 | 370 | 435 | 520 | 530  | 580  |  |
| WT.(approx) | Kg   | 55  | 70    | 90  | 135 | 165 | 295 | 525 | 900 | 1075 | 1225 |  |

Gear operation suggested. Dimensions on request. Abbreviation: SP-Shotr pattern.

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