

# DUAL PLATE WAFER CHECK VALVE CLASS 600

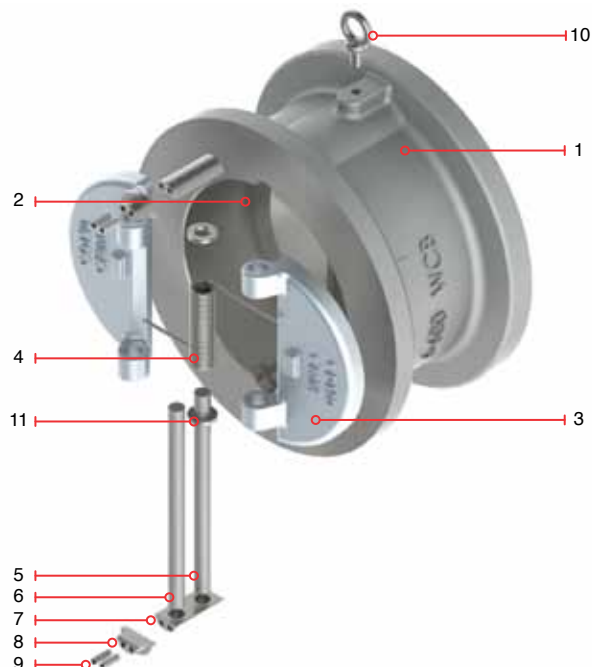
## Design Features

- Design in accordance with API 594
- End to end dimension in accordance to API 594
- Flange ends in accordance to ASME B16.5, ASME B16.47
- Inspection and Test according to API 598
- NACE MR-0175 Service
- Lifting Lug for 8" and up
- Single Spring for 2" to 6"
- Double Spring for 8" and up

## Material List for Main Parts (Single Spring)

| No. | Part Name     | ASTM                     |
|-----|---------------|--------------------------|
|     |               | Carbon Steel             |
| 1   | Body          | A216 WCB                 |
| 2   | Seat Seal     | A216 WCB + SS410 Overlay |
| 3   | Disc          | A351 CF8                 |
| 4   | Spring        | Inconel X-750            |
| 5   | Shaft         | A276 Gr. 410             |
| 6   | Stop Pin      | A276 Gr. 410             |
| 7   | Shaft Support | A276 Gr. 410             |
| 8   | Retainer      | A276 Gr. 410             |
| 9   | Bolting       | Commercial Steel         |
| 10  | Lifting Lug   | Commercial Steel         |
| 11  | Bearing       | A276 Gr. 410             |

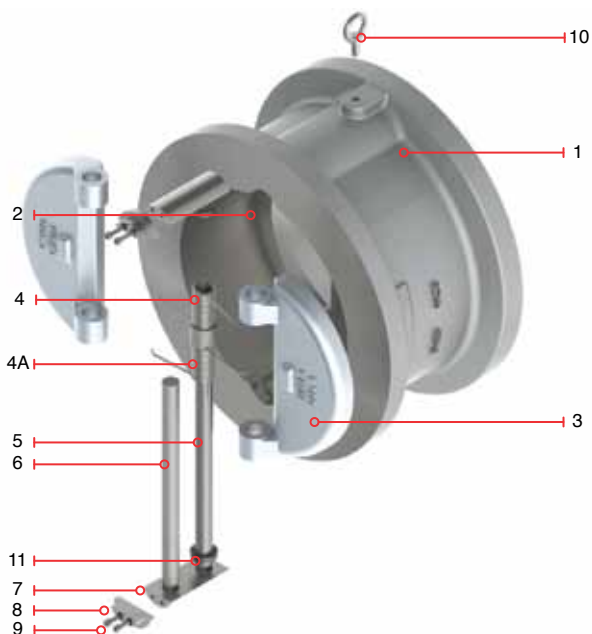
Remark: 1. Select different materials for different working temperature and media.



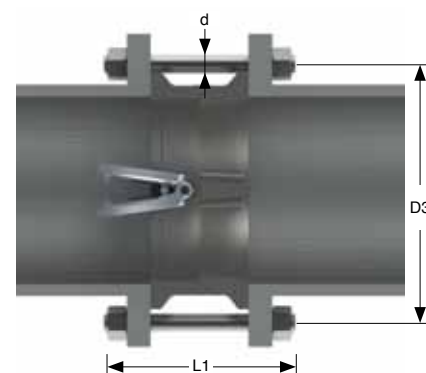
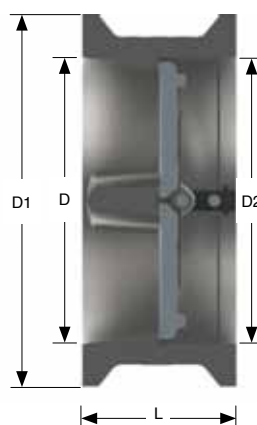
## Material List For Main Parts (Double Spring)

| No. | Part Name     | ASTM                     |
|-----|---------------|--------------------------|
|     |               | Carbon Steel             |
| 1   | Body          | A216 WCB                 |
| 2   | Seat Seal     | A216 WCB + SS410 Overlay |
| 3   | Disc          | A351 CF8                 |
| 4   | Spring        | Inconel X-750            |
| 4A  | Spring        | Inconel X-750            |
| 5   | Shaft         | A276 Gr. 410             |
| 6   | Stop Pin      | A276 Gr. 410             |
| 7   | Shaft Support | A276 Gr. 410             |
| 8   | Retainer      | A276 Gr. 410             |
| 9   | Bolting       | Commercial Steel         |
| 10  | Lifting Lug   | Commercial Steel         |
| 11  | Bearing       | A276 Gr. 410             |

Remark: 1. Select different materials for different working temperature and media.



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## Dimensions and Weights

| Pressure /<br>Flange standard                    | Nominal<br>pipe size |      | Dimension |      |      |      | Weight<br>(Kg) | Pipe Flange |             |                   |       |                  |      |
|--------------------------------------------------|----------------------|------|-----------|------|------|------|----------------|-------------|-------------|-------------------|-------|------------------|------|
|                                                  | NPS                  | CN   | L         | D1   | D2   | D    |                | D3          | Bolt<br>No. | Stud Diameter (d) |       | Stud Length (L1) |      |
|                                                  |                      |      |           |      |      |      |                |             |             | in                | mm    | RF               | RJ   |
| Class 600 PN11,0/<br>ASME B16.5                  | 2                    | 50   | 60        | 110  | 58   | 51   | 4              | 127         | 8           | 5/8               | M16   | 175              | 180  |
|                                                  | 2 1/2                | 65   | 67        | 128  | 73   | 65   | 5              | 149         | 8           | 3/4               | M20   | 195              | 200  |
|                                                  | 3                    | 80   | 73        | 147  | 88   | 80   | 8              | 168.5       | 8           | 3/4               | M20   | 210              | 215  |
|                                                  | 4                    | 100  | 79        | 191  | 108  | 102  | 11             | 216         | 8           | 7/8               | M24   | 235              | 240  |
|                                                  | 5                    | 125  | 105       | 139  | 136  | 127  | 20             | 267         | 8           | 1                 | M27   | 280              | 285  |
|                                                  | 6                    | 150  | 136       | 264  | 162  | 152  | 26             | 292         | 12          | 1                 | M27   | 320              | 325  |
|                                                  | 8                    | 200  | 165       | 318  | 212  | 200  | 55             | 349         | 12          | 1 1/8             | M30   | 370              | 375  |
|                                                  | 10                   | 250  | 213       | 398  | 266  | 250  | 95             | 432         | 16          | 1 1/4             | M33   | 440              | 445  |
|                                                  | 12                   | 300  | 229       | 455  | 312  | 305  | 140            | 489         | 20          | 1 1/4             | M33   | 460              | 465  |
|                                                  | 14                   | 350  | 273       | 490  | 355  | 337  | 223            | 527         | 20          | 1 3/8             | M36x3 | 520              | 525  |
|                                                  | 16                   | 400  | 305       | 562  | 400  | 387  | 360            | 603         | 20          | 1 1/2             | M39x3 | 575              | 580  |
|                                                  | 18                   | 450  | 362       | 610  | 450  | 438  | 395            | 654         | 20          | 1 5/8             | M42x3 | 650              | 655  |
| Class 600 PN11,0/<br>ASME B16.47B o<br>API605    | 20                   | 500  | 368       | 680  | 500  | 489  | 518            | 724         | 24          | 1 5/8             | M42x3 | 670              | 680  |
|                                                  | 24                   | 600  | 438       | 786  | 600  | 591  | 836            | 838         | 24          | 1 7/8             | M48x3 | 780              | 790  |
|                                                  | 26                   | 650  | 457       | 761  | 640  | 633  | 950            | 806.5       | 28          | 1 5/8             | M42x3 | 790              | 805  |
|                                                  | 28                   | 700  | 483       | 815  | 690  | 684  | 1210           | 863.5       | 28          | 1 3/4             | M45x3 | 830              | 845  |
|                                                  | 30                   | 750  | 505       | 875  | 740  | 735  | 1370           | 927         | 28          | 1 7/8             | M48x3 | 875              | 890  |
| Class 600 PN11,0/<br>ASME B16.47A o<br>MSS SP-44 | 32                   | 800  | 533       | 928  | 784  | 779  | 1640           | 984         | 28          | 2                 | M52x3 | 920              | 940  |
|                                                  | 36                   | 900  | 635       | 1045 | 880  | 874  | 2120           | 1105        | 28          | 2 1/4             | M56x3 | 1065             | 1085 |
|                                                  | 26                   | 650  | 457       | 863  | 640  | 633  | 980            | 915.5       | 28          | 1 7/8             | M48x3 | 795              | 810  |
|                                                  | 28                   | 700  | 483       | 910  | 690  | 684  | 1250           | 965         | 28          | 2                 | M52x3 | 835              | 850  |
|                                                  | 30                   | 750  | 505       | 967  | 740  | 735  | 1420           | 1022.5      | 28          | 2                 | M52x3 | 860              | 905  |
|                                                  | 32                   | 800  | 533       | 1020 | 784  | 779  | 1700           | 1079.5      | 28          | 2 1/4             | M56x3 | 905              | 925  |
|                                                  | 36                   | 900  | 635       | 1126 | 880  | 874  | 2200           | 1194        | 28          | 2 1/2             | M64x3 | 1035             | 1055 |
|                                                  | 40                   | 1000 | 660       | 1153 | 985  | 976  | 2650           | 1213        | 32          | 2 1/4             | M56x3 | 1115             | -    |
|                                                  | 42                   | 1050 | 701       | 1215 | 1030 | 1020 | 3120           | 1283        | 28          | 2 1/2             | M64x3 | 1190             | -    |
|                                                  | 48                   | 1200 | 787       | 1386 | 1170 | 1166 | 3720           | 1460.5      | 32          | 2                 | M70x3 | 1330             | -    |