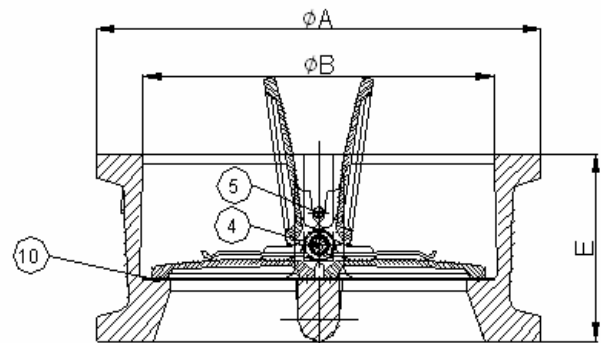
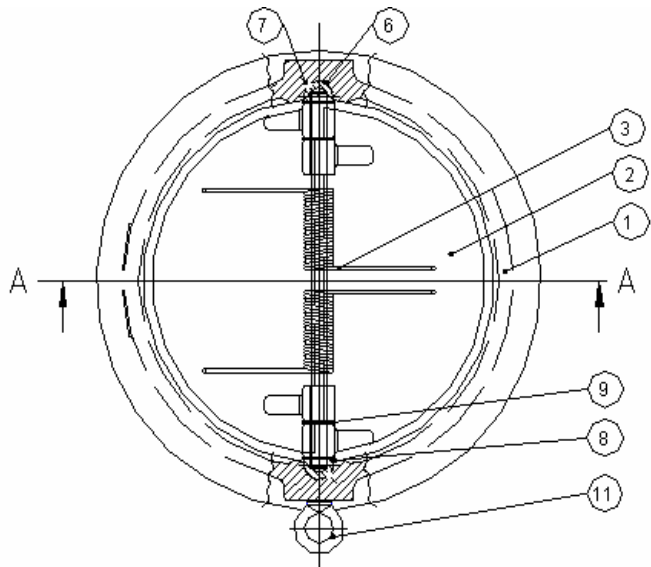


|  | SIZE   | ϕA  | ϕB  | C   | B.C.D. | W.T.  | Q'TY |
|--|--------|-----|-----|-----|--------|-------|------|
|  | 1-1/2" | 86  | 60  | 60  | 98.5   | 1.8   |      |
|  | 2"     | 101 | 60  | 60  | 120.6  | 2.5   |      |
|  | 2-1/2" | 121 | 73  | 67  | 139.7  | 3.5   |      |
|  | 3"     | 131 | 89  | 73  | 152.4  | 4.5   |      |
|  | 4"     | 164 | 114 | 73  | 190.5  | 8.0   |      |
|  | 5"     | 193 | 141 | 86  | 215.9  | 10.0  |      |
|  | 6"     | 217 | 168 | 98  | 241.3  | 13.0  |      |
|  | 8"     | 275 | 219 | 127 | 298.5  | 28.0  |      |
|  | 10"    | 336 | 273 | 146 | 362.0  | 45.0  |      |
|  | 12"    | 406 | 324 | 181 | 431.8  | 68.0  |      |
|  | 14"    | 447 | 356 | 184 | 476.3  | 95.0  |      |
|  | 16"    | 511 | 406 | 191 | 539.8  | 132.0 |      |
|  | 18"    | 546 | 457 | 203 | 577.9  | 147.0 |      |
|  | 20"    | 603 | 508 | 219 | 635.0  | 202.0 |      |

| NO. | PARTS NAME    | MATERIALS | Q'TY | REMARKS              |
|-----|---------------|-----------|------|----------------------|
| 1   | BODY          | A216 WCB  | 1    |                      |
| 2   | PLATE         | A351 CF8M | 2    |                      |
| 3   | *SPRING       | SUS 316   | 1    | 1-1/2"~5" USED 1 PC. |
| 3   | *SPRING       | SUS 316   | 2    | 6"~22" USED 2 PCS.   |
| 4   | HINGE PIN     | SUS 316   | 1    |                      |
| 5   | STOP PIN      | SUS 316   | 1    |                      |
| 6   | RETAINER      | A105      | 4    |                      |
| 7   | BODY BEARING  | SUS 316   | 2    |                      |
| 8   | PLATE BEARING | SUS 316   | 2    |                      |
| 9   | EYE BOLT      | A105      | 1    | 6" AND LARGER SIZES. |
| 10  | SEAT          | METAL     | 1    |                      |

| TEST STANDARD        |                                   | ASME - B16.34 / API - 598 |                    |
|----------------------|-----------------------------------|---------------------------|--------------------|
| TEST PRESSURE        | SHELL                             | SEAT                      |                    |
| HYDROSTATIC PRESSURE | 31.6 KG/CM <sup>2</sup>           | 22.0                      | KG/CM <sup>2</sup> |
| PNEUMATIC PRESSURE   | ----- KG/CM <sup>2</sup>          | 6.0                       | KG/CM <sup>2</sup> |
| FACE TO FACE         | API - 594                         |                           |                    |
| DIMENSION OF END     | ASME B16.5 - 150 LB               |                           |                    |
| DRAWING NAME         | DUAL PLATE WAFER TYPE CHECK VALVE |                           |                    |
| VALVE SERIAL         | DWCV                              | DRAWING NO.               | CV-TAS-W-M-S5-B001 |
| DESIGNED BY          | 2008.12.1                         | APPROVED BY               | JACK LU            |
| DRAWN BY             | ABBY LU                           | CHECKED BY                | JACK LU            |

**VALUE VALVES COMPANY LIMITED**



SECTION A-A

| PART NO. | PART NAME     | METERIAL  | Q'TY | REMARK  |  |  |  |  |  |  |
|----------|---------------|-----------|------|---------|--|--|--|--|--|--|
| 1        | BODY          | A216 -WCB | 1    |         |  |  |  |  |  |  |
| 2        | PLATE         | A351-CF8M | 2    |         |  |  |  |  |  |  |
| 3        | SPRING        | SUS316    | 1    | 2"-5"   |  |  |  |  |  |  |
|          |               |           | 2    | 6"-20"  |  |  |  |  |  |  |
|          |               |           | 4    | 24"-36" |  |  |  |  |  |  |
|          |               |           | 6    | 40"     |  |  |  |  |  |  |
| 4        | HINGE PIN     | SUS 316   | 1    |         |  |  |  |  |  |  |
| 5        | STOP PIN      | SUS 316   | 1    |         |  |  |  |  |  |  |
| 6        | CARRIER       | WCB       | 2    |         |  |  |  |  |  |  |
| 7        | SET SCREW     | 316       | 2    |         |  |  |  |  |  |  |
| 8        | BODY BEARING  | SUS 316   | 2    |         |  |  |  |  |  |  |
| 9        | PLATE BEARING | SUS 316   | 0    |         |  |  |  |  |  |  |
| 10       | SEAT          | METAL     | 1    |         |  |  |  |  |  |  |
| 11       | EYE BOLT      | SS41      | 1    | 6"-20"  |  |  |  |  |  |  |
|          |               |           | 2    | 24"-40" |  |  |  |  |  |  |

DIMENSIONS :

| SIZE | φ A   |       |       | φ B | E     |       |       |
|------|-------|-------|-------|-----|-------|-------|-------|
|      | 150LB | 300LB | 600LB |     | 150LB | 300LB | 600LB |
| 1.5" | 86    | 92    | 92    | 60  | 60    | 60    |       |
| 2"   | 101   | 108   | 108   | 60  | 60    | 60    |       |
| 2.5" | 121   | 127   | 127   | 73  | 67    | 67    |       |
| 3"   | 131   | 145   | 145   | 89  | 73    | 73    |       |
| 4"   | 164   | 177   | 190   | 114 | 73    | 73    |       |
| 5"   | 193   | 212   | 238   | 141 | 86    | 87    |       |
| 6"   | 217   | 247   | 263   | 168 | 98    | 98    |       |
| 8"   | 275   | 304   | 317   | 219 | 127   | 127   |       |
| 10"  | 336   | 358   | 396   | 274 | 146   | 146   |       |
| 12"  | 406   | 419   | 453   | 324 | 181   | 181   |       |
| 14"  | 447   | 482   | 488   | 356 | 184   | 222   |       |
| 16"  | 511   | 536   | 562   | 406 | 191   | 232   |       |
| 18"  | 546   | 593   | 609   | 457 | 203   | 264   |       |
| 20"  | 603   | 650   | 678   | 508 | 219   | 292   |       |
| 24"  | 718   | 775   | 791   | 610 | 222   | 318   |       |

|                     |                     |                           |                    |             |      |                    |
|---------------------|---------------------|---------------------------|--------------------|-------------|------|--------------------|
| TEST STANDARD       |                     | ASME - B16.34 / API - 598 |                    |             |      |                    |
| TEST PRESSURE       | SHELL               |                           |                    | SEAT        |      |                    |
| HYDROSTATIC         | 150LB               | 31.6                      | KG/CM <sup>2</sup> | 150LB       | 22.0 | KG/CM <sup>2</sup> |
|                     | 300LB               | 79.0                      | KG/CM <sup>2</sup> | 300LB       | 58.0 | KG/CM <sup>2</sup> |
|                     | 600LB               | 105.0                     | KG/CM <sup>2</sup> | 600LB       | 77.0 | KG/CM <sup>2</sup> |
| PNEUMANTIC PRESSURE | ---                 | ---                       | KG/CM <sup>2</sup> | 150LB-600LB | 6.0  | KG/CM <sup>2</sup> |
| FACE TO FACE        | API - 594           |                           |                    |             |      |                    |
| MODEL NO.           | TC8-W-S5-M-101022-1 |                           |                    |             |      |                    |

|                              |            |   |          |  |  |
|------------------------------|------------|---|----------|--|--|
| DRAWING NAME                 |            | DUAL PLATE WAFER TYPE CHECK VALVE WITH RETAINERLESS |          |  |  |
| APPROVED BY                  | CHECKED BY | DESIGNED BY   | DRAWN BY |  |  |
| JACK LU                      | JACK LU    | JACK LU   | JACK LU  |  |  |
| <b>VALUE VALVES CO.,LTD.</b> |            |   |          |  |  |