

## FASANI PRESSURE SEAL CAST CHECK VALVES - STYLE B

### SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION

A wide range of check valves specifically designed for high pressure and high temperature applications



#### FEATURES

- A range of pressure seal check valves designed according to ASME B16.34 with wall thickness according to API 600.
- All range is offered in all the material stated in the ASTM specifications (NACE compliance included), and designed to always guarantee the maximum safety and flow efficiency.
- Face to face dimensions as per ASME B16.10
- Available in swing check, tilting disc and piston check (Y and T pattern design)
- Swing check valves can fit on both horizontal and vertical (up-flow) piping.
- Tilting disc check valves are designed to prevent the disc slamming and to ensure, at the same time, a quick closing service.
- Lift check valves (Y and T patterns) are designed to be installed on horizontal piping.
- Seat is welded in
- Available options: side mounted counterweight, side mounted hydraulic damper and disc anti-rotation device.

#### GENERAL APPLICATION

Our pressure seal check valves are recommended for a wide range of applications, particularly those requiring very high pressures and temperatures: steam, oil and gas processing, chemical and petrochemical industry and in the power industry. These high quality valves are successfully installed worldwide on applications requiring flow reversal prevention.

#### TECHNICAL DATA

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Sizes:            | DN 50 to 600 and larger<br>(NPS 2-24)                         |
| Temperature (°C): | -46 to + 650                                                  |
| Pressure ratings: | ASME Class 900, 1500 and 2500 for Swing Check type            |
|                   | ASME Class 600, 900, 1500 and 2500 for Tilting Disc type      |
|                   | ASME Class 600, 900, 1500 and 2500 for Piston Check T pattern |
|                   | ASME Class 900, 1500 and 2500 for Piston Check Y pattern      |
| Body materials:   | All the cast materials stated in the ASTM spec                |

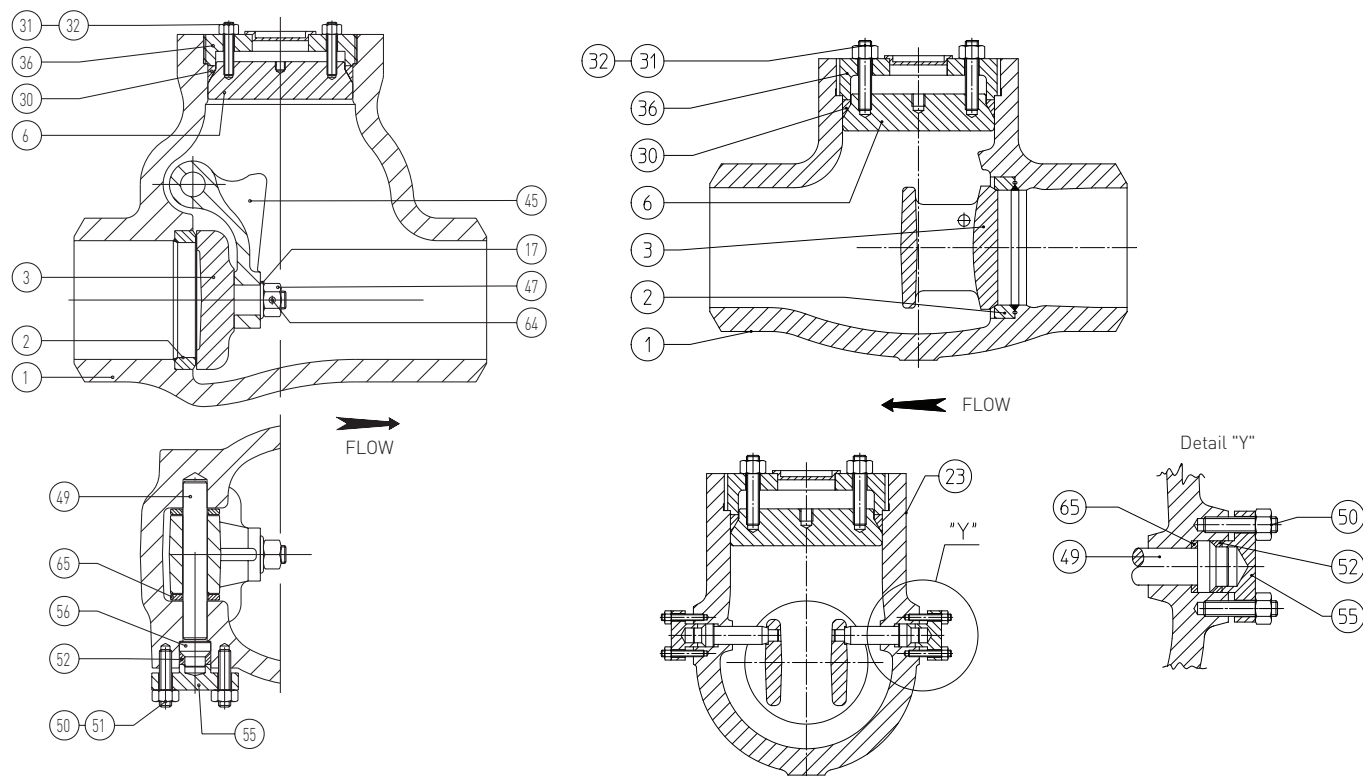
#### Connections standards

Butt Weld according to ASME B16.25.  
Flanged Ends available for Swing Check, Tilting Disc, Piston check T pattern, according to ASME B16.5

# FASANI PRESSURE SEAL CAST CHECK VALVES - STYLE B

## SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION

### SWING CHECK VALVES



### MATERIAL SELECTION

| Item | Description           | Body in WCB             | Body in WC6             | Body in CF8M      |
|------|-----------------------|-------------------------|-------------------------|-------------------|
| 1    | Body                  | A216 WCB                | A217 WC6                | A351 CF8M         |
| 2    | Seat ring             | A105 + AWS ER 430       | A182 F22 + AWS ER 430   | A182 F316         |
| 3    | Disc                  | A216 WCB + AWS ER 430   | A217 WC6 + AWS ER 430   | A351 CF8M         |
| 6    | Bonnet                | A105                    | A182 F11                | A182 F316         |
| 17   | Washer                | A182 F316               | A182 F316               | A182 F316         |
| 30   | P.S. gasket           | Soft iron silver plated | Soft iron silver plated | A182 F316         |
| 31   | Bolt                  | A193 B7                 | A193 B16                | A193 B8           |
| 32   | Nut                   | A194 2H                 | A194 4                  | A194 8            |
| 36   | Bonnet retaining ring | A105                    | A182 F11                | A182 F316         |
| 45   | Hinge                 | A216 WCB                | A217 WC6                | A351 CF8M         |
| 47   | Nut                   | A194 2H                 | A194 4                  | A194 8            |
| 49   | Hinge pin             | A182 F6a                | A182 F6a                | A182 F316         |
| 50   | Bolt                  | A193 B7                 | A193 B16                | A193 B8           |
| 51   | Nut                   | A194 2H                 | A194 4                  | A194 8            |
| 52   | Pin gasket            | Flexible graphite       | Flexible graphite       | Flexible graphite |
| 55   | Hinge pin cover       | A105                    | A182 F22                | A182 F316         |
| 56   | Hinge pin plug        | A182 F6a                | A182 F6a                | A182 F316         |
| 64   | Split pin             | Steel                   | Steel                   | Stainless steel   |
| 65   | Spacer ring           | A182 F6a                | A182 F6a                | A182 F316         |

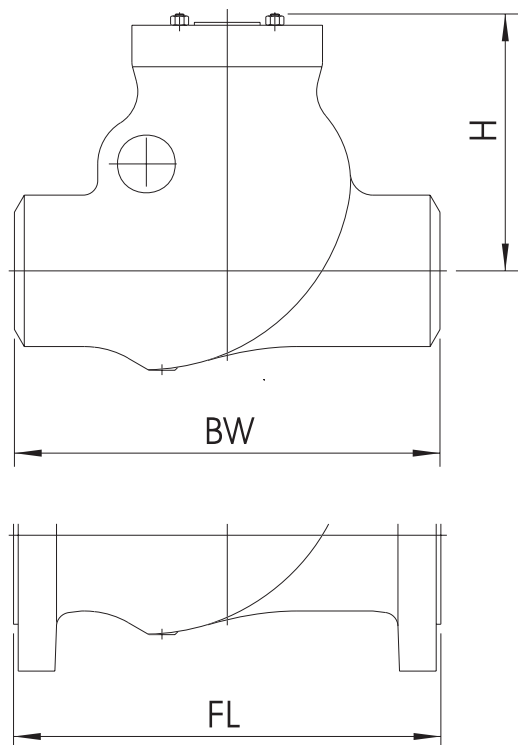
### NOTES

- Other materials are available on request.  
Please consult supplier.

## FASANI PRESSURE SEAL CAST CHECK VALVES - STYLE B

### SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION

#### SWING CHECK CONFIGURATION



| Size<br>DN | NPS | ASME class 900 (Fig. VR 900 PS) |      |     |      |      |  | ASME class 1500 (Fig. VR 1500 PS) |      |     |      |      |  | ASME class 2500 (Fig. VR 2500 PS) |      |     |      |      |  |
|------------|-----|---------------------------------|------|-----|------|------|--|-----------------------------------|------|-----|------|------|--|-----------------------------------|------|-----|------|------|--|
|            |     | FL                              | BW   | H   | W1   | W2   |  | FL                                | BW   | H   | W1   | W2   |  | FL                                | BW   | H   | W1   | W2   |  |
| 50         | 2   | -                               | -    | -   | -    | -    |  | 368                               | 368  | 205 | 45   | 32   |  | 451                               | 451  | 235 | 90   | 48   |  |
| 65         | 2½  | -                               | -    | -   | -    | -    |  | 419                               | 419  | 220 | 80   | 48   |  | 508                               | 508  | 240 | 140  | 78   |  |
| 80         | 3   | 381                             | 381  | 235 | 70   | 47   |  | 470                               | 470  | 250 | 95   | 58   |  | 578                               | 578  | 285 | 160  | 98   |  |
| 100        | 4   | 457                             | 457  | 265 | 135  | 72   |  | 546                               | 546  | 295 | 150  | 100  |  | 673                               | 673  | 310 | 220  | 148  |  |
| 125        | 5   | -                               | -    | -   | -    | -    |  | -                                 | -    | -   | -    | -    |  | -                                 | -    | -   | -    | -    |  |
| 150        | 6   | 610                             | 508  | 370 | 275  | 160  |  | 705                               | 559  | 390 | 370  | 220  |  | 914                               | 610  | 415 | 610  | 305  |  |
| 200        | 8   | 737                             | 660  | 450 | 470  | 300  |  | 832                               | 711  | 470 | 640  | 425  |  | 1022                              | 762  | 555 | 1300 | 655  |  |
| 250        | 10  | 838                             | 787  | 500 | 625  | 460  |  | 991                               | 864  | 535 | 1250 | 700  |  | 1270                              | 914  | 640 | 1900 | 985  |  |
| 300        | 12  | 965                             | 914  | 555 | 950  | 690  |  | 1130                              | 991  | 610 | 1750 | 1130 |  | 1422                              | 1041 | 665 | 2850 | 1410 |  |
| 350        | 14  | 1029                            | 991  | 620 | 1400 | 960  |  | 1257                              | 1067 | 700 | 2400 | 1455 |  | -                                 | 1118 | 600 | -    | 1800 |  |
| 400        | 16  | 1130                            | 1092 | 680 | 1650 | 1290 |  | 1384                              | 1194 | 770 | 3235 | 1970 |  | -                                 | 1245 | 700 | -    | 2300 |  |
| 450        | 18  | 1219                            | 1143 | 730 | 2230 | 1750 |  | 1537                              | 1346 | 830 | 3880 | 2890 |  | -                                 | 1397 | 770 | -    | 2770 |  |
| 500        | 20  | 1321                            | 1245 | 780 | 2850 | 2290 |  | 1664                              | 1473 | 850 | 5510 | 3800 |  | -                                 | 1524 | 840 | -    | 3340 |  |
| 550        | 22  | -                               | -    | -   | -    | -    |  | -                                 | -    | -   | -    | -    |  | -                                 | -    | -   | -    | -    |  |
| 600        | 24  | 1549                            | 1397 | 850 | 4300 | 3530 |  | 1943                              | 1752 | 980 | 7400 | 5000 |  | -                                 | 1676 | 950 | -    | 4660 |  |

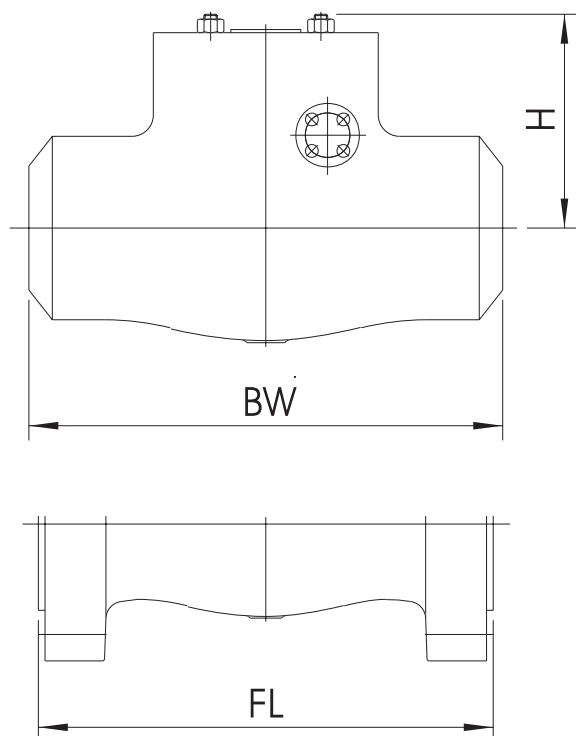
#### NOTES

1. All dimensions are in mm.
2. Sizes and classes larger than mentioned here are available: please consult supplier for more information.
3. W1 corresponds to weight in kilos for flanged body style. For sizes larger than NPS 24, weight depends on flange standards.
4. W2 corresponds to weight in kilos for welding body style.

## FASANI PRESSURE SEAL CAST CHECK VALVES - STYLE B

### SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION

#### TILTING DISC CONFIGURATION



| Size<br>DN | NPS | ASME class 900 (Fig. TD 900 PS) |      |     |      |      | ASME class 1500 (Fig. TD 1500 PS) |      |     |      |      | ASME class 2500 (Fig. TD 2500 PS) |      |     |      |      |
|------------|-----|---------------------------------|------|-----|------|------|-----------------------------------|------|-----|------|------|-----------------------------------|------|-----|------|------|
|            |     | FL                              | BW   | H   | W1   | W2   | FL                                | BW   | H   | W1   | W2   | FL                                | BW   | H   | W1   | W2   |
| 80         | 3   | 381                             | 305  | 170 | 55   | 35   | 470                               | 305  | 185 | 77   | 40   | 578                               | 368  | 160 | 120  | 40   |
| 100        | 4   | 457                             | 356  | 200 | 100  | 65   | 546                               | 406  | 205 | 125  | 75   | 673                               | 457  | 190 | 235  | 120  |
| 125        | 5   | -                               | -    | -   | -    | -    | -                                 | -    | -   | -    | -    | -                                 | -    | -   | -    | -    |
| 150        | 6   | 610                             | 508  | 250 | 215  | 115  | 705                               | 559  | 235 | 275  | 155  | 914                               | 610  | 245 | 620  | 300  |
| 200        | 8   | 737                             | 660  | 280 | 345  | 200  | 832                               | 711  | 295 | 450  | 290  | 1022                              | 762  | 330 | 990  | 550  |
| 250        | 10  | 838                             | 787  | 330 | 500  | 330  | 991                               | 864  | 330 | 940  | 510  | 1270                              | 914  | 330 | 1725 | 900  |
| 300        | 12  | 965                             | 914  | 365 | 790  | 560  | 1130                              | 991  | 400 | 1435 | 835  | 1422                              | 1041 | 430 | 2400 | 1300 |
| 350        | 14  | 1029                            | 991  | 400 | 1120 | 720  | 1257                              | 1067 | 490 | 2010 | 1230 | -                                 | 1118 | 480 | -    | 1900 |
| 400        | 16  | 1130                            | 1092 | 430 | 1500 | 1200 | 1384                              | 1194 | 570 | 2130 | 1560 | -                                 | 1245 | 520 | -    | 2820 |
| 450        | 18  | 1219                            | 1143 | 470 | 2160 | 1650 | 1537                              | 1346 | 630 | 2491 | 2070 | -                                 | 1397 | 550 | -    | 3410 |
| 500        | 20  | 1321                            | 1245 | 550 | 2750 | 2150 | 1664                              | 1473 | 660 | 4000 | 2740 | -                                 | 1524 | 590 | -    | 4330 |
| 550        | 22  | -                               | -    | -   | -    | -    | -                                 | -    | -   | -    | -    | -                                 | -    | -   | -    | -    |
| 600        | 24  | 1549                            | 1397 | 730 | 4270 | 3280 | 1943                              | 1752 | 780 | 6435 | 4635 | -                                 | 1676 | 780 | -    | 6070 |

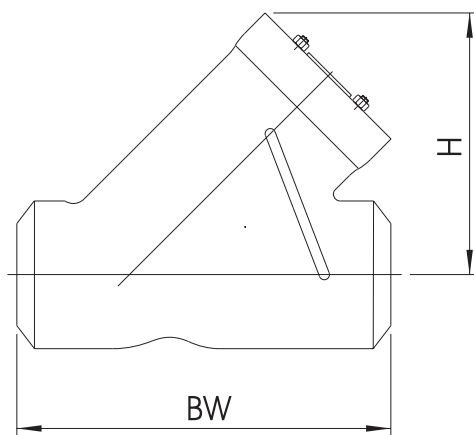
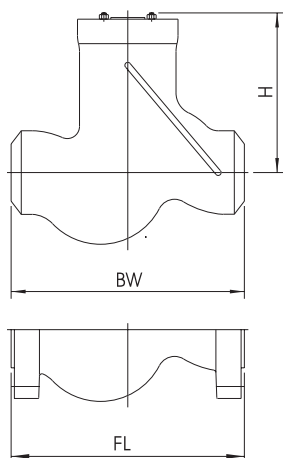
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## FASANI PRESSURE SEAL CAST CHECK VALVES -STYLE B

### SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION

#### STOP CHECK CONFIGURATION

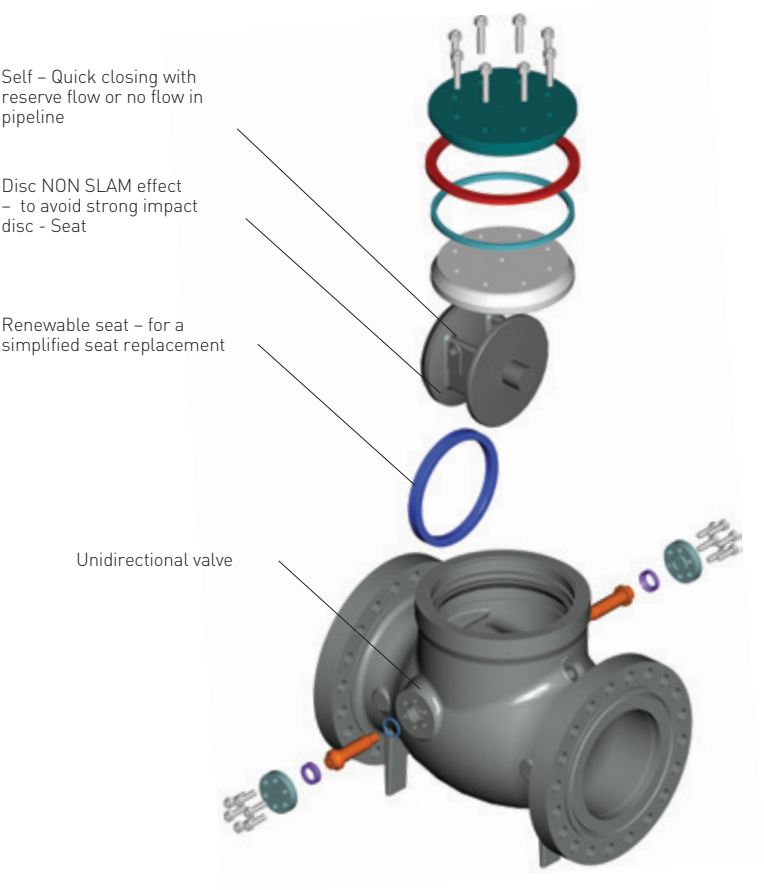
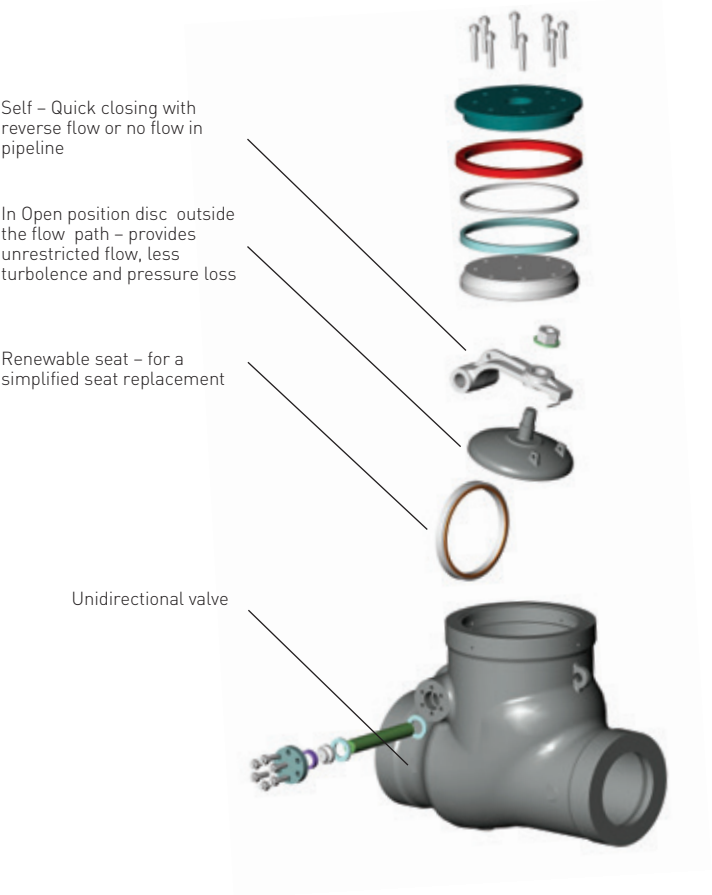


| Size<br>DN NPS | ASME class 900<br>(Fig. PC 900 PS) |     |     |      |     |      | ASME class 1500<br>(Fig. PC 1500 PS) |     |      |     |      |      | ASME class 2500<br>(Fig. PC 2500 PS) |      |     |           |      |      | ASME class 1500<br>(Fig. PY 1500 PS) |      |      | ASME class 2500<br>(Fig. PY 2500 PS) |      |      |
|----------------|------------------------------------|-----|-----|------|-----|------|--------------------------------------|-----|------|-----|------|------|--------------------------------------|------|-----|-----------|------|------|--------------------------------------|------|------|--------------------------------------|------|------|
|                | T pattern                          |     | H   | W1   | W2  | FL   | BW                                   | H   | W1   | W2  | FL   | BW   | H                                    | W1   | W2  | Y pattern |      |      | BW                                   | H    | W    | BW                                   | H    | W    |
|                | FL                                 | BW  |     |      |     |      |                                      |     |      |     |      |      |                                      |      |     | BW        | H    | W    |                                      |      |      |                                      |      |      |
| 50 2           | -                                  | -   | -   | -    | -   | 368  | 368                                  | 240 | 60   | 40  | 451  | 451  | 330                                  | 70   | 60  | -         | -    | -    | -                                    | -    | -    | -                                    | -    | -    |
| 65 2½          | -                                  | -   | -   | -    | -   | 419  | 419                                  | 275 | 80   | 55  | 508  | 508  | 260                                  | 115  | 65  | -         | -    | -    | -                                    | -    | -    | -                                    | -    | -    |
| 80 3           | 381                                | 381 | 270 | 65   | 50  | 470  | 470                                  | 280 | 100  | 65  | 578  | 578  | 280                                  | 185  | 100 | 381       | 250  | 50   | 368                                  | 240  | 85   | 368                                  | 240  | 85   |
| 100 4          | 457                                | 457 | 335 | 135  | 95  | 546  | 546                                  | 335 | 155  | 100 | 673  | 673  | 330                                  | 355  | 170 | 406       | 290  | 85   | 457                                  | 320  | 130  | 457                                  | 320  | 130  |
| 125 5          | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | -         | -    | -    | -                                    | -    | -    | -                                    | -    | -    |
| 150 6          | 610                                | 610 | 400 | 250  | 190 | 705  | 705                                  | 390 | 280  | 245 | 914  | 914  | 390                                  | 720  | 435 | 559       | 360  | 215  | 610                                  | 350  | 330  | 610                                  | 350  | 330  |
| 200 8          | 737                                | 737 | 490 | 445  | 300 | 832  | 832                                  | 470 | 660  | 500 | 1022 | 1022 | 460                                  | 1100 | 610 | 711       | 440  | 430  | 762                                  | 460  | 645  | 762                                  | 460  | 645  |
| 250 10         | 838                                | 838 | 565 | 695  | 480 | 991  | 991                                  | 580 | 890  | 610 | 1270 | 1270 | 580                                  | 1540 | 840 | 864       | 590  | 660  | 914                                  | 610  | 1025 | 914                                  | 610  | 1025 |
| 300 12         | 965                                | 965 | 665 | 1045 | 760 | 1130 | 1130                                 | 680 | 1380 | 850 | 1422 | 1041 | 640                                  | 2090 | 960 | 991       | 640  | 960  | 1041                                 | 650  | 1200 | 1041                                 | 650  | 1200 |
| 350 14         | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | 1067      | 700  | 1000 | 1130                                 | 720  | 1360 | 1130                                 | 720  | 1360 |
| 400 16         | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | 1194      | 750  | 1550 | 1245                                 | 800  | 2150 | 1245                                 | 800  | 2150 |
| 450 18         | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | 1473      | 810  | 1800 | 1397                                 | 870  | 2975 | 1397                                 | 870  | 2975 |
| 500 20         | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | 1676      | 890  | 2490 | 1524                                 | 960  | 3630 | 1524                                 | 960  | 3630 |
| 550 22         | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | -         | -    | -    | -                                    | -    | -    | -                                    | -    | -    |
| 600 24         | -                                  | -   | -   | -    | -   | -    | -                                    | -   | -    | -   | -    | -    | -                                    | -    | -   | 1727      | 1050 | 3000 | 1829                                 | 1220 | 5650 | 1829                                 | 1220 | 5650 |

#### NOTES

1. All dimensions are in mm.
2. Sizes and classes larger than mentioned here are available; please consult supplier for more information.
3. W1 corresponds to weight in kilos for flanged body style.
4. W2 corresponds to weight in kilos for welding body style.

**FASANI PRESSURE SEAL CAST CHECK VALVES - STYLE B**  
SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION





# FASANI PRESSURE SEAL CAST CHECK VALVES - STYLE B

## SWING CHECK, TILTING DISC AND PISTON CHECK CONFIGURATION

### SWING CHECK VALVE ORDERING GUIDE

| Example                           | 6C | 0                          | R | 06                    | 30 | 0 | B2 | H | N |
|-----------------------------------|----|----------------------------|---|-----------------------|----|---|----|---|---|
| <b>Valve Type</b>                 |    |                            |   |                       |    |   |    |   |   |
| <b>6C</b> Swing Check             |    |                            |   |                       |    |   |    |   |   |
| <b>Valve Configuration</b>        |    |                            |   |                       |    |   |    |   |   |
| <b>0</b> Basic                    |    |                            |   |                       |    |   |    |   |   |
| <b>Valve Rating</b>               |    |                            |   |                       |    |   |    |   |   |
| <b>E</b> ASME 900                 |    |                            |   |                       |    |   |    |   |   |
| <b>F</b> ASME 1500                |    |                            |   |                       |    |   |    |   |   |
| <b>R</b> ASME 1200                |    |                            |   |                       |    |   |    |   |   |
| <b>G</b> ASME 2500                |    |                            |   |                       |    |   |    |   |   |
| <b>S</b> ASME 1900                |    |                            |   |                       |    |   |    |   |   |
| <b>U</b> ASME 2850                |    |                            |   |                       |    |   |    |   |   |
| <b>Nominal Valve Size</b>         |    |                            |   |                       |    |   |    |   |   |
| <b>02</b> 2"                      |    | <b>10</b> 10"              |   | <b>20</b> 20"         |    |   |    |   |   |
| <b>25</b> 2½"                     |    | <b>AH</b> 10"x8"x10"       |   | <b>BH</b> 20"x18"x20" |    |   |    |   |   |
| <b>03</b> 3"                      |    | <b>12</b> 12"              |   | <b>22</b> 22"         |    |   |    |   |   |
| <b>KB</b> 3"x2"x3"                |    | <b>AL</b> 12"x10"x12"      |   | <b>BL</b> 22"x20"x22" |    |   |    |   |   |
| <b>04</b> 4"                      |    | <b>14</b> 14"              |   | <b>24</b> 24"         |    |   |    |   |   |
| <b>KC</b> 4"x3"x4"                |    | <b>AB</b> 14"x12"x14"      |   | <b>BB</b> 24"x22"x24" |    |   |    |   |   |
| <b>06</b> 6"                      |    | <b>16</b> 16"              |   |                       |    |   |    |   |   |
| <b>K4</b> 6"x4"x6"                |    | <b>AD</b> 16"x14"x16"      |   |                       |    |   |    |   |   |
| <b>08</b> 8"                      |    | <b>18</b> 18"              |   |                       |    |   |    |   |   |
| <b>KF</b> 8"x6"x8"                |    | <b>AF</b> 18"x16"x18"      |   |                       |    |   |    |   |   |
| <b>Body Material</b>              |    |                            |   |                       |    |   |    |   |   |
| <b>30</b> ASTM A216 WCB           |    | <b>65</b> ASTM A351 CF8M   |   |                       |    |   |    |   |   |
| <b>38</b> ASTM A217 C12A          |    | <b>73</b> A352 LCB         |   |                       |    |   |    |   |   |
| <b>44</b> ASTM A217 WC6           |    | <b>78</b> ASTM A494 CW-6MC |   |                       |    |   |    |   |   |
| <b>45</b> ASTM A217 WC9           |    | <b>99</b> ASTM A890 Gr 5A  |   |                       |    |   |    |   |   |
| <b>62</b> ASTM A351 CF8C          |    | <b>XY*</b> Other material  |   |                       |    |   |    |   |   |
| <b>Cladding</b>                   |    |                            |   |                       |    |   |    |   |   |
| <b>0</b> No Cladding              |    |                            |   |                       |    |   |    |   |   |
| <b>2</b> Sealing Gasket Area F316 |    |                            |   |                       |    |   |    |   |   |
| <b>Trim</b>                       |    |                            |   |                       |    |   |    |   |   |
| <b>B2</b> 13% Cr. + 2 Stellite    |    |                            |   |                       |    |   |    |   |   |
| <b>D2</b> F316 + 2 Stellite       |    |                            |   |                       |    |   |    |   |   |
| <b>WZ*</b> Other material         |    |                            |   |                       |    |   |    |   |   |
| <b>Pipe Connection</b>            |    |                            |   |                       |    |   |    |   |   |
| <b>A</b> FLANGED PER ASME B16.5   |    |                            |   |                       |    |   |    |   |   |
| <b>H</b> WELD END ASME B16.25     |    |                            |   |                       |    |   |    |   |   |
| <b>J</b> WELD END EN 12267        |    |                            |   |                       |    |   |    |   |   |
| <b>K</b> WELD END ISO 9692        |    |                            |   |                       |    |   |    |   |   |
| <b>Standard Valve Operation</b>   |    |                            |   |                       |    |   |    |   |   |
| <b>N</b> None                     |    |                            |   |                       |    |   |    |   |   |

\* Other material available upon request.