

- Forged or casted body and cover
- Pressure seal design
- Anti-blowout design
- Pin secures the disc
- The disc can rotate on its axis which prevents local wear
- Seating surfaces made from stainless steel or Stellite

APPLICATIONS

- Power plant
- Chemical
- Petrochemical
- Refining

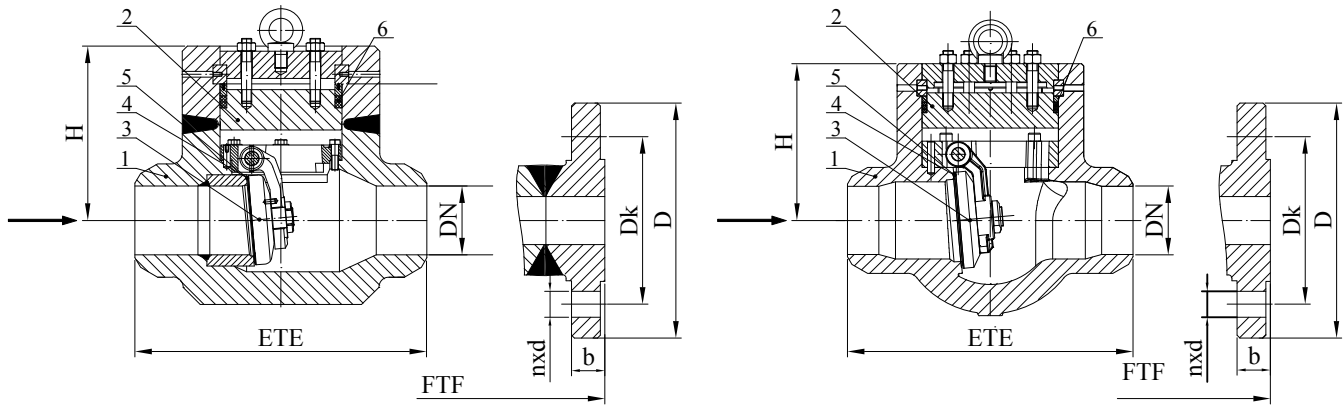


ADVANTAGES

- Possibility of installation in any position
- Long service life
- Respect to emission standards
- Easy handling and maintenance

TECHNICAL DATA

| | |
|---------------------------|---|
| Media: | Depending of the valve materials: water, steam, gas, oil and oil derivatives and other non aggressive media |
| Pressure and temperature: | Pressure up to 250 bar or Class 1500 Temperature up to 600 °C |
| Materials: | Carbon and heat resistant alloy steels |
| Options: | Flanges and welding ends according to: ASME, DIN, EN, GOST, etc. Seats and sealing made of elastic materials Other paint finishes are available upon customer's request Valve complete with counter flanges, bolting and gaskets |
| Testing: | Every produced Check Valve was tested according to API 598 and EN 12266 |



LIST OF MATERIALS

| Item | Part | Material Group acc. to EN 12516-1 and ASME B16.34 | | | | |
|------|---------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | | 3E0 (1.1) | 4E0 (1.5 a 1.3) | 5E0 (1.17 a 1.9) | 6E0 (1.10) | 9E1 a 1C15 (1.15) |
| | | Application | | | | |
| | | up to 450 °C (-29 °C ÷ 425 °C) | up to 550 °C (-29 °C ÷ 470 °C) | up to 550 °C (-29 °C ÷ 595 °C) | up to 600 °C (-29 °C ÷ 595 °C) | up to 600 °C (-29 °C ÷ 600 °C) |
| 1 | Body ¹⁾ | 1.0460/1.0619 (A105/WCB) | 1.5415/1.5419 (F1/WC1) | 1.7335/1.7357 (F12 Cl.2/WC6) | 1.7383/1.7379 (F22 Cl.3/WC9) | 1.4903/C12A (F91/C12A) |
| 2 | Cover ¹⁾ | 1.0460/1.0619 (A105/WCB) | 1.5415/1.5419 (F1/WC1) | 1.7335/1.7357 (F12 Cl.2/WC6) | 1.7383/1.7379 (F22 Cl.3/WC9) | 1.4903 (F91/C12A) |
| 3 | Disc ¹⁾ | 1.4021/1.4122 | | | | |
| 4 | Body welded on with | 13 Cr (up to 450 °C) or Stellite | | | | |
| 5 | Disc welded on with | 13 Cr (up to 450 °C) or Stellite | | | | |
| 6 | Cover gasket | graphite with corrosion inhibitor | | | | |

¹⁾ other materials available according to EN standard

STANDARDS

| | |
|---|---------------------------------------|
| High Pressure Swing Check Valves | PN 250 / Class 1500 |
| Face-to-face (FTF) and End-to-end (ETE) dimension acc. to | ASME B16.10 and Manufacturer standard |
| Flanged ends according to | EN 1092-1 or ASME B16.5 |
| Welding ends according to | EN 12627 or ASME B16.25 |

[CHPS] DIMENSIONS CLASS 1500

| DN | | 15 | 60 | 80 | 100 | 125 | 150 | 200 |
|------|-----|--------|--------|--------|--------|--------|---------|---------|
| [mm] | ETE | 216 | 254 | 305 | 406 | 483 | 559 | 711 |
| | FTF | 368 | 419 | 470 | 546 | 673 | 705 | 832 |
| | D | 215 | 245 | 265 | 310 | 375 | 395 | 485 |
| | Dk | 165,1 | 190,5 | 203,2 | 241,3 | 292,1 | 317,5 | 393,7 |
| | nxd | 8×25,4 | 8×28,6 | 8×31,7 | 8×34,9 | 8×41,3 | 12×38,1 | 12×44,5 |
| | b | 14,1 | 48,3 | 54,7 | 61,0 | 80,1 | 89,6 | 99,1 |
| | H | 220 | 260 | 272 | 325 | 375 | 426 | 500 |
| kg | ETE | 53 | 62 | 75 | 131 | 217 | 310 | 572 |
| | FTF | 67 | 82 | 102 | 167 | 287 | 394 | 715 |

[CHPS] DIMENSIONS PN 250

| DN | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
|------|-----|------|-----|------|-----|------|------|------|------|------|-------|-------|-------|
| [mm] | ETE | 90 | 114 | 180 | 210 | 210 | 250 | 340 | 380 | 430 | 500 | 550 | 700 |
| | FTF | 230 | (2) | 260 | (2) | 310 | 350 | 425 | 470 | 550 | 650 | 750 | 950 |
| | D | 130 | - | 150 | - | 185 | 200 | 230 | 255 | 300 | 340 | 390 | 485 |
| | Dk | 90 | - | 105 | - | 135 | 150 | 180 | 200 | 235 | 275 | 320 | 400 |
| | nxd | 4×18 | - | 4×22 | - | 4×26 | 8×26 | 8×26 | 8×30 | 8×33 | 12×33 | 12×36 | 12×42 |
| | b | 26 | - | 28 | - | 34 | 38 | 42 | 46 | 54 | 60 | 68 | 82 |
| | H | 68 | 76 | 102 | 112 | 112 | 220 | 260 | 272 | 325 | 375 | 426 | 500 |
| kg | ETE | 3 | 4,5 | 7 | 8 | 8 | 65 | 75 | 90 | 160 | 265 | 380 | 690 |
| | FTF | 5 | (2) | 9 | (2) | 14 | 75 | 90 | 110 | 192 | 311 | 451 | 822 |

²⁾ Flange dimensions are not defined according to EN 1092-1

RANGE OF APPLICATION

| materiál | PN | Pressure (bar) / temperature (°C) ratings according to EN 12516-1 | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | -10 | 20 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 375 | 400 | 425 | 450 | 470 | 475 | 480 | 500 | 510 | 525 | 550 | 575 | 600 | |
| 1.0460 1.0619 | 250 | 250,0 | 250,0 | 250,0 | 234,1 | 222,1 | 210,1 | 192,1 | 174,1 | 162,0 | 156,0 | 150,0 | 129,8 | 92,0 | | | | | | | | | | |
| 1.5415 1.5419 | 250 | 250,0 | 250,0 | 250,0 | 250,0 | 244,6 | 228,1 | 213,1 | 198,1 | 186,1 | 183,1 | 180,1 | 173,5 | 166,8 | 164,4 | 163,8 | 163,2 | 113,4 | 98,7 | 70,7 | 40,0 | | | |
| 1.7335 1.7357 | 250 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 232,9 | 224,5 | 213,4 | 204,1 | 197,2 | 187,2 | 184,7 | 180,7 | 156,0 | 139,5 | 114,7 | 73,4 | | | |
| 1.7383 1.7379 | 250 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 234,7 | 226,3 | 213,4 | 204,1 | 197,2 | 187,2 | 184,7 | 180,7 | 164,5 | 158,9 | 134,7 | 88,0 | 86,0 | 37,3 | |
| 1.4903 | 250 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 234,7 | 226,3 | 213,4 | 204,1 | 197,2 | 187,2 | 184,7 | 180,7 | 164,5 | 158,9 | 150,4 | 145,6 | 139,7 | 125,0 | |
| A217 C12A | 250 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 | 241,2 | 223,1 | 215,1 | 209,5 | 202,0 | 190,4 | 182,2 | 176,0 | 164,9 | 146,9 | 142,6 | 136,1 | 129,9 | 124,7 | 101,6 | |

| materiál | Class | Pressure (bar) / temperature (°C) ratings according to ANSI B16.34 | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|--|
| | | -29 ÷38 | 50 | 100 | 150 | 200 | 250 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 538 | 550 | 575 | 600 | | | |
| A105 WCB | 1500 | 258,6 | 258,6 | 258,6 | 255,2 | 252,9 | 252,6 | 252,6 | 250,6 | 244,6 | 235,5 | 217,0 | 179,8 | 143,8 | 109,0 | 73,5 | 36,9 | | | | | | |
| WC1 | 1500 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 239,8 | 236,5 | 224,7 | 203,9 | 170,6 | 134,9 | 97,9 | 69,2 | 36,9 | | | | | |
| F1 | 1500 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 240,1 | 235,8 | 213,7 | 150,4 | 70,9 | | | | |
| WC6 | 1500 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 257,1 | 252,5 | 251,2 | 248,2 | 235,8 | 213,7 | 160,8 | 93,1 | 79,4 | 55,0 | 38,2 | | |
| F12 Cl.2 | 1500 | 258,6 | 257,5 | 253,1 | 248,6 | 248,6 | 248,0 | 245,2 | 242,9 | 239,2 | 235,5 | 235,3 | 235,3 | 215,1 | 174,1 | 133,6 | 85,7 | 75,3 | 55,0 | 37,8 | | | |
| F22 Cl.3 WC9 | 1500 | 258,6 | 258,6 | 258,1 | 254,8 | 251,1 | 249,9 | 248,9 | 248,0 | 246,0 | 243,8 | 243,8 | 243,8 | 243,8 | 235,8 | 213,7 | 178,6 | 115,2 | 97,7 | 65,8 | 43,0 | | |
| F91 C12A | 1500 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 258,6 | 257,1 | 252,5 | 252,2 | 248,2 | 235,8 | 213,7 | 178,6 | 145,1 | 145,1 | 143,0 | 121,9 | | | |

The data in this datasheet are informative only and the manufacturer reserves the right to changes of technical details.

