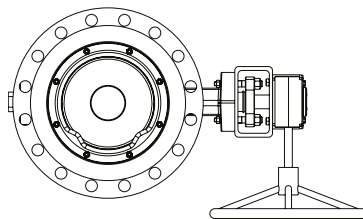
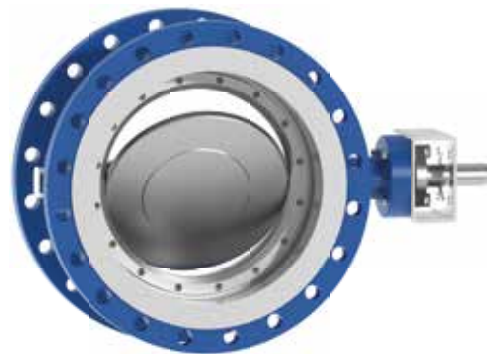


**ARI-ZEDOX® - Fig. 122 - Double flanged high performance valve - Double offset**

**ARI-ZEDOX®**  
with worm gear

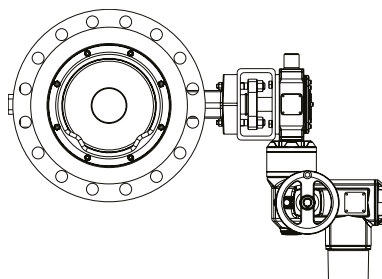


Page 4



**Fig. 122 -**  
**ARI-ZEDOX® double flanged**

**ARI-ZEDOX®**  
with electric rotary actuator  
Auma

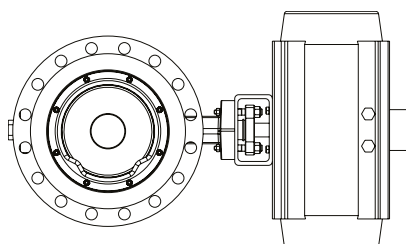


Page 5



**DN200-DN900**  
**honeycomb**  
**shape disc**

**ARI-ZEDOX®**  
with pneumatic actuator



Page 6



**DN1000-DN1200**  
**Disc**

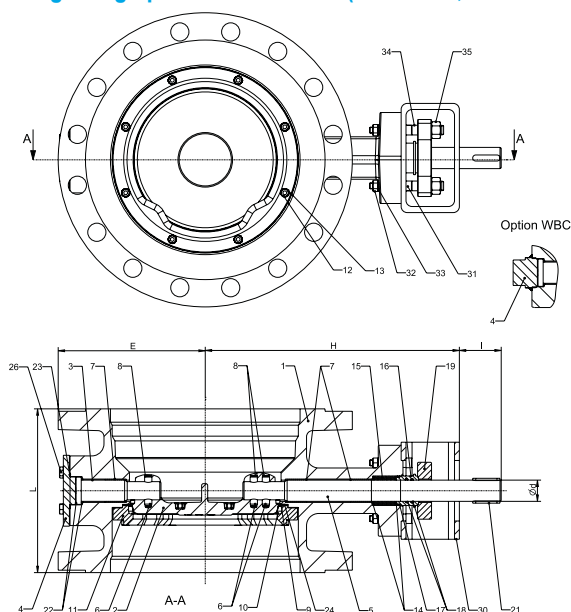
**ARI-ZEDOX®**  
with hydraulic actuator

on request

**Features:**

- Carbon steel / stainless steel body
- Double offset construction:  
Rotary movement (90°) without wear or friction
- Metallic or PTFE+C sealing
- Bi-directional tightness
- Replaceable seat ring
- Fire Safe acc. to ISO 10497 / BS6755
- ATEX (optional)

## Double flanged high performance valve (Cast steel, Stainless steel)



| Figure               | Nominal pressure | Material  | Nominal diameter | Sealing element      |
|----------------------|------------------|-----------|------------------|----------------------|
| 31.122 <sup>1)</sup> | PN 6 - PN 10     | 1.0619+QT | DN 200-800       | PTFE+C (TS)          |
|                      |                  |           | DN 200-1200      | Stainless steel (CS) |
| 32.122 <sup>1)</sup> | PN16             | 1.0619+QT | DN 200-800       | PTFE+C (TS)          |
|                      |                  |           | DN 200-1200      | Stainless steel (CS) |
| 34.122 <sup>1)</sup> | PN 25            | 1.0619+QT | DN 200-800       | PTFE+C (TS)          |
|                      |                  |           | DN 200-1200      | Stainless steel (CS) |
| 51.122 <sup>1)</sup> | PN 6 - PN 10     | 1.4408    | DN 200-800       | PTFE+C (TS)          |
|                      |                  |           | DN 200-1200      | Stainless steel (CS) |
| 52.122 <sup>1)</sup> | PN16             | 1.4408    | DN 200-800       | PTFE+C (TS)          |
|                      |                  |           | DN 200-1200      | Stainless steel (CS) |
| 54.122 <sup>1)</sup> | PN 25            | 1.4408    | DN 200-800       | PTFE+C (TS)          |
|                      |                  |           | DN 200-1200      | Stainless steel (CS) |

Face-to-face dimension series 14 acc. to EN 558-1

Standard: Bolted Bottom Cover (BBC)

Optional: Welded Bottom Cover (WBC)

<sup>1)</sup> Sales article (in order confirmation) over 34./54.122 in DN200-DN1200

### Sealing element:

|                             |                |
|-----------------------------|----------------|
| • PTFE+C (TS) <sup>2)</sup> | -40°C to 180°C |
| • Stainless steel (CS)      | -40°C to 260°C |

<sup>2)</sup> Observe operating limits with sealing PTFE+C, refer to page 3

### Max. differential pressure:

|        |                     |
|--------|---------------------|
| 34.122 | • 16 bar - standard |
| 54.122 | • 25 bar - option   |

### Actuation arrangement:

|                     |                      |
|---------------------|----------------------|
| • Worm gear         | • Pneumatic actuator |
| • Electric actuator | • Hydraulic actuator |

### Sealing leakage test:

|                 |                                 |
|-----------------|---------------------------------|
| PTFE+C          | • DIN EN 12266-1 Leakage rate A |
| Stainless steel | • DIN EN 12266-1 Leakage rate B |

### Options on request

| Parts         |       |                        |                                                                             |             |
|---------------|-------|------------------------|-----------------------------------------------------------------------------|-------------|
| Pos.          | Sp.p. | Description            | Fig. 34.122                                                                 | Fig. 54.122 |
| 1             |       | Body                   | 1.0619+QT                                                                   | 1.4408      |
| 2             |       | Disc                   | 1.4408 (optional 1.4460)                                                    |             |
| 3             |       | Pivot                  | 1.4021+QT                                                                   | 1.4542      |
| 4             |       | Bottom cover           | 1.4404 (BBC), (optional WBC: 1.0565)                                        | 1.4404      |
| 5             |       | Stem                   | 1.4021+QT                                                                   | 1.4542      |
| 6             |       | Pin                    | A4-70                                                                       |             |
| 7             |       | Bushing                | P1                                                                          | Inconel 625 |
| 8             |       | Sicherungsring         | PTFE on stainless steel net                                                 |             |
| 9 / 24        | x     | Shim <sup>3)</sup>     | 978-C / SIGRAFLEX HIGH PRESSURE (SIGRAFLEX HIGH PRESSURE for steam version) |             |
| 10            | x     | Sitzring               | CS: 1.4404 (optional: 1.4539)<br>TS: PTFE+C; special material on request    |             |
| 11            |       | Retaining ring         | 1.0425                                                                      | 1.4404      |
| 12            |       | Socket screw           | A4-80                                                                       |             |
| 13            |       | Washer                 | A4                                                                          |             |
| 14            |       | Back-up-ring           | 1.4404                                                                      |             |
| 15            | x     | Box packing            | Graphite                                                                    |             |
| 16            |       | Shaft seal bushing     | 1.4404                                                                      |             |
| 17 / 18       | x     | O-ring                 | EPDM (not fitted in steam version)                                          |             |
| 19            |       | Gland                  | 1.4404                                                                      |             |
| 20            |       | Hexagonal screw        | A4-70                                                                       |             |
| 21            |       | Key                    | A4                                                                          |             |
| 22            |       | Axial-washer           | P1                                                                          | Inconel 625 |
| 23            |       | Shim                   | 978-C / SIGRAFLEX HIGH PRESSURE (SIGRAFLEX HIGH PRESSURE for steam version) |             |
| 26            |       | Hexagon screw          | A4-70                                                                       |             |
| 30            |       | Mounting bracket       | 1.0576 (galvanized)                                                         |             |
| 31            |       | Socket screw           | A4-70                                                                       |             |
| 32            |       | Hexagon nut            | A4-70                                                                       |             |
| 33            |       | Retaining washers pair | A4                                                                          |             |
| 34            |       | Stud                   | A4-70                                                                       |             |
| 35            |       | Hexagon nut            | A4-70                                                                       |             |
| L Spare parts |       |                        |                                                                             |             |

<sup>3)</sup> Only for CS-version

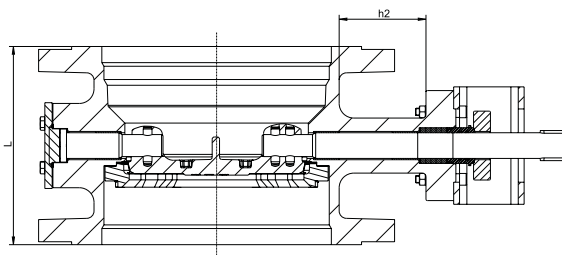
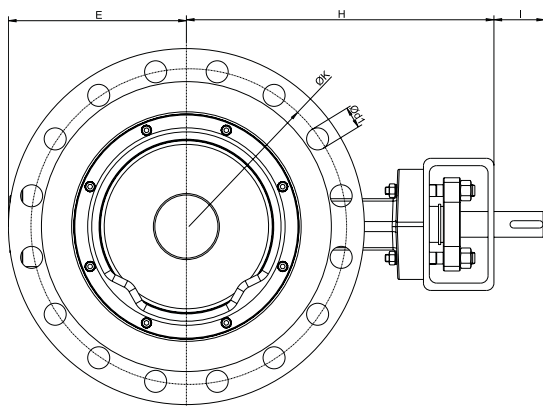
Information / restriction of technical rules need to be observed!

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Resistance and suitability must be verified (contact manufacturer for information, refer to Product overview).

TS = PTFE+C (Teflon) seal and **S**tainless steel disc

CS = **C**hromed seating and **S**tainless steel disc



| DN | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|

| Face-to-face dimension series 14 acc. to DIN EN 558-1 |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L                                                     | (mm) | 230 | 250 | 270 | 290 | 310 | 330 | 350 | 390 | 430 | 470 | 510 | 550 | 630 |

| Dimensions      |      |     |     |     |     |     |     |     |     |     |     |     |      |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| E               | (mm) | 179 | 218 | 254 | 280 | 324 | 354 | 379 | 404 | 468 | 519 | 606 | 835  |
| H               | (mm) | 335 | 394 | 419 | 449 | 505 | 541 | 568 | 664 | 746 | 847 | 914 | 1077 |
| h2              | (mm) | 115 | 125 | 125 | 125 | 155 | 149 | 149 | 178 | 181 | 183 | 194 | 183  |
| l               | (mm) | 58  | 63  | 69  | 75  | 75  | 86  | 86  | 103 | 119 | 119 | 125 | 160  |
| Flange ISO 5211 |      | F10 | F12 | F12 | F14 | F14 | F16 | F16 | F16 | F25 | F30 | F30 | F35  |

| Standard-flange dimensions per side |         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PN 10                               | ØK      | (mm) | 295   | 350   | 400   | 460   | 515   | 565   | 620   | 725   | 840   | 950   | 1050  | 1160  | 1380  |
|                                     | n x Ød1 | (mm) | 8x22  | 12x22 | 12x22 | 16x22 | 16x26 | 20x26 | 20x26 | 20x30 | 24x30 | 24x33 | 28x33 | 28x36 | 32x39 |
| PN 16                               | ØK      | (mm) | 295   | 355   | 410   | 470   | 525   | 585   | 650   | 770   | 840   | 950   | 1050  | 1170  | 1390  |
|                                     | n x Ød1 | (mm) | 12x22 | 12x26 | 12x26 | 16x26 | 16x30 | 20x30 | 20x33 | 20x36 | 24x36 | 24x39 | 28x39 | 28x42 | 32x48 |
| PN 25                               | ØK      | (mm) | 310   | 370   | 430   | 490   | 550   | 600   | 660   | 770   | 875   | 990   | 1090  | 1210  | 1420  |
|                                     | n x Ød1 | (mm) | 12x26 | 12x30 | 16x30 | 16x33 | 16x36 | 20x36 | 20x36 | 20x39 | 24x42 | 24x48 | 28x48 | 28x56 | 32x56 |

| Weights for double flanged high performance valve |             |      |    |    |     |     |     |     |     |     |     |      |      |      |      |
|---------------------------------------------------|-------------|------|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 1.0619+QT                                         | Fig. 34.122 | (kg) | 66 | 96 | 124 | 173 | 236 | 295 | 353 | 511 | 797 | 1048 | 1368 | 1827 | 2939 |
| 1.4408                                            | Fig. 54.122 | (kg) |    |    |     |     |     |     |     |     |     |      |      |      |      |

| Pressure-temperature-ratings   |    |       | Intermediate values for max. permissible operational pressure can be determined by linear interpolation of the given temperature / pressure chart. |                  |        |       |       |       |       |
|--------------------------------|----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|-------|-------|-------|-------|
| acc. to manufacturers standard | PN |       | -40 °C to < -10 °C                                                                                                                                 | -10 °C to 50 °C  | 120 °C | 150°C | 200°C | 250°C | 260°C |
| 1.0619+QT                      | 10 | (bar) | 10                                                                                                                                                 | 10               | 9,2    | 8,8   | 8,3   | 7,6   | 7,5   |
| 1.0619+QT                      | 16 | (bar) | 16                                                                                                                                                 | 16               | 16     | 15,3  | 14    | 13    | 12,6  |
| 1.0619+QT                      | 25 | (bar) | 25                                                                                                                                                 | 25               | 25     | 23,9  | 22    | 20    | 19,4  |
| acc. to DIN EN 1092-1          | PN |       | -40 °C to < -10 °C                                                                                                                                 | -10 °C to 100 °C |        | 150°C | 200°C | 250°C | 260°C |
| 1.4408                         | 10 | (bar) | 10                                                                                                                                                 | 10               |        | 9     | 8,4   | 7,9   | 7,8   |
| 1.4408                         | 16 | (bar) | 16                                                                                                                                                 | 16               |        | 14,5  | 13,4  | 12,7  | 12,5  |
| 1.4408                         | 25 | (bar) | 25                                                                                                                                                 | 25               |        | 22,7  | 21    | 19,8  | 19,5  |

| Operating limits sealing element <sup>1)</sup> |  | Intermediate values for max. differential pressure can be determined by linear interpolation of the given temperature / pressure chart. |      |       |        |        |        |        |        |        |        |
|------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|--------|--------|--------|--------|--------|--------|
| Sealing PTFE+C (TS)                            |  | -40 °C                                                                                                                                  | 0 °C | 50 °C | 100 °C | 120 °C | 150 °C | 180 °C | 200 °C | 250 °C | 260 °C |
|                                                |  | 25                                                                                                                                      | 25   | 25    | 25     | 25     | 14.5   | 4      | -      | -      | -      |

<sup>1)</sup> Note additional restrictions of the pressure-temperature-ratings!

| DN | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|

| Max. differential pressure   |                |       |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------|----------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Sealing PTFE+C (TS)          | Disc Side      | (bar) | 25 | 25 | 25 | 25 | 16 | 16 | 16 | 16 | 16 | -  | -  | -  | -  |
|                              | Shaft Side     | (bar) | 25 | 25 | 25 | 25 | 25 | 16 | 16 | 16 | 16 | 16 | -  | -  | -  |
|                              | Bi-directional | (bar) | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| Sealing stainless steel (CS) | Disc Side      | (bar) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
|                              | Shaft Side     | (bar) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
|                              | Bi-directional | (bar) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

| Operation torque for max. differential pressure 16 bar (bi-directional flow) |                         |                      |      |     |     |     |      |      |      |      |      |      |       |       |       |       |
|------------------------------------------------------------------------------|-------------------------|----------------------|------|-----|-----|-----|------|------|------|------|------|------|-------|-------|-------|-------|
| PN25 <sup>2)</sup>                                                           | Sealing PTFE+C          | Torque <sup>3)</sup> | (Nm) | 190 | 320 | 550 | 850  | 1300 | 1800 | 2400 | 3400 | 5500 | -     | -     | -     | -     |
|                                                                              | Sealing stainless steel |                      | (Nm) | 240 | 400 | 700 | 1100 | 1600 | 2200 | 3000 | 4200 | 6800 | 10000 | 13000 | 16000 | 24000 |

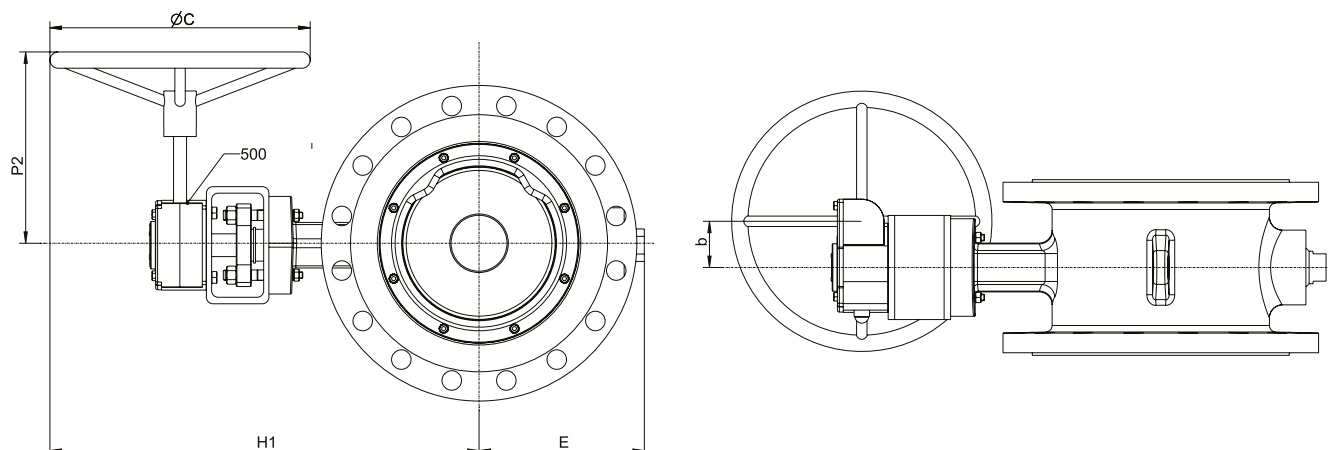
<sup>2)</sup> max. differential pressure 16 bar!

<sup>3)</sup> for steam duty use the next size up

## ZEDOX® Double flanged high performance valve with worm gear

Opening and closing of the valves with the handwheel.

The position of the disc can be seen on a position indicator on top of the gear.

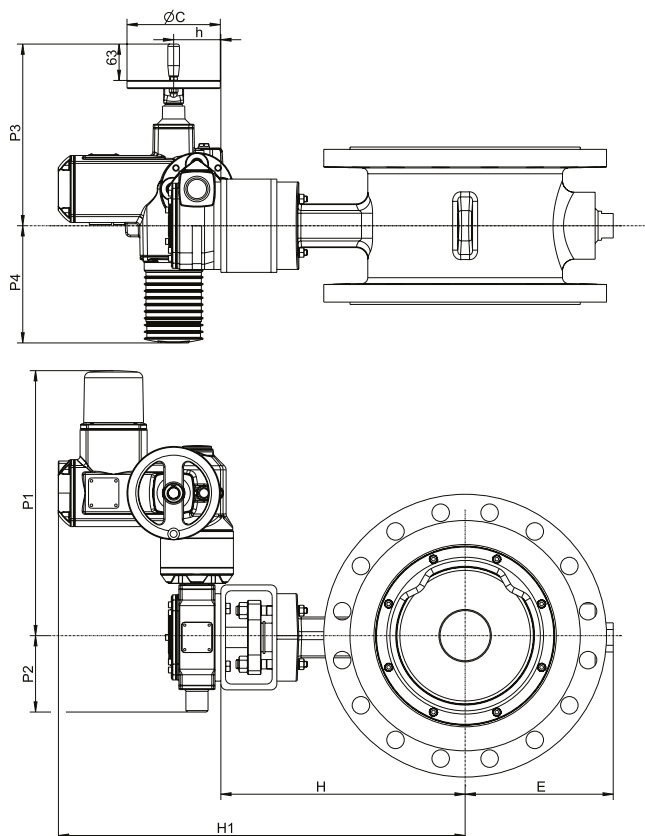


| Parts |               |             |                 |
|-------|---------------|-------------|-----------------|
| Pos.  | Sp.p.         | Description | Fig. 34./54.122 |
| 500   | x             | Worm gear   |                 |
|       | L Spare parts |             |                 |

| DN           |      | 200    | 250    | 300    | 350    | 400    | 450     | 500     | 600     | 700         | 800         | 900         | 1000        | 1200       |
|--------------|------|--------|--------|--------|--------|--------|---------|---------|---------|-------------|-------------|-------------|-------------|------------|
| Dimensions   |      |        |        |        |        |        |         |         |         |             |             |             |             |            |
| b            | (mm) | 71     | 71     | 71     | 86     | 86     | 53      | 53      | 53      | 182         | 182         | 182         | 182         | 209        |
| ØC           | (mm) | 200    | 300    | 400    | 400    | 500    | 500     | 500     | 500     | 500         | 500         | 500         | 500         | 600        |
| E            | (mm) | 179    | 218    | 254    | 28     | 324    | 354     | 379     | 404     | 468         | 519         | 606         | 660         | 835        |
| H1           | (mm) | 476    | 585    | 660    | 691    | 797    | 847     | 874     | 970     | 1055        | 1156        | 1223        | 1269        | 1462       |
| P2           | (mm) | 249    | 284    | 297    | 285    | 305    | 348     | 348     | 348     | 470         | 470         | 470         | 470         | 491        |
| Type of gear |      | AB550N | AB550N | AB550N | AB880N | AB880N | AB2000N | AB2000N | AB2000N | AB6800N-PR4 | AB6800N-PR4 | AB6800N-PR6 | AB6800N-PR6 | A200N-PR10 |

| Weights with manual gear Rotork <sup>1)</sup> |             |      |    |     |     |     |     |     |     |     |     |      |      |      |      |
|-----------------------------------------------|-------------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 1.0619+QT                                     | Fig. 34.122 | (kg) | 76 | 107 | 136 | 190 | 254 | 323 | 381 | 539 | 863 | 1114 | 1436 | 1895 | 3078 |
| 1.4408                                        | Fig. 54.122 | (kg) |    |     |     |     |     |     |     |     |     |      |      |      |      |

<sup>1)</sup> weight of hand wheel is not included

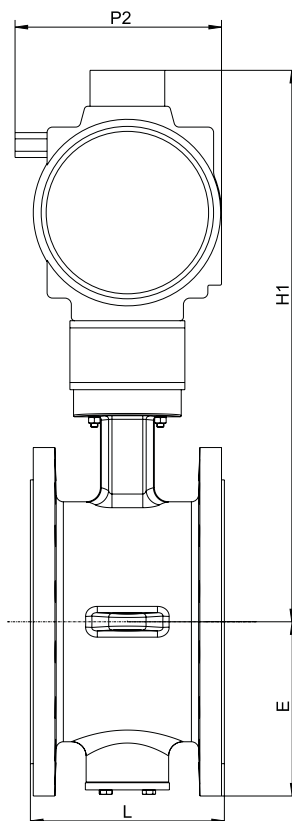
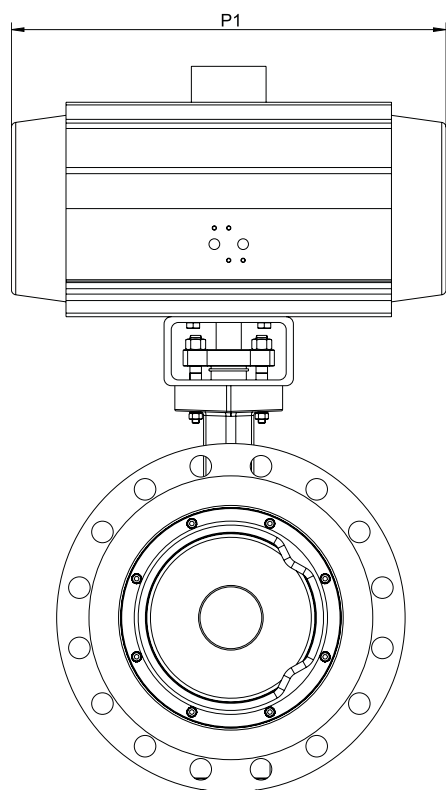
**ZEDOX® Double flanged high performance valve with electric rotary actuator Auma**


| DN | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|

| Dimensions                                                                            |       |                                     |                                     |                                     |                                     |                                     |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |
|---------------------------------------------------------------------------------------|-------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| ØC                                                                                    | (mm)  | 160                                 | 160                                 | 160                                 | 200                                 | 200                                 | 160                                   | 160                                   | 200                                   | 200                                   | 160                                   | 160                                   | 160                                   | 200                                   |
| E                                                                                     | (mm)  | 176                                 | 218                                 | 254                                 | 280                                 | 324                                 | 354                                   | 379                                   | 404                                   | 468                                   | 519                                   | 606                                   | 660                                   | 835                                   |
| h                                                                                     | (mm)  | 80                                  | 85                                  | 85                                  | 107                                 | 107                                 | 115                                   | 115                                   | 125                                   | 125                                   | 130                                   | 130                                   | 130                                   | 180                                   |
| H                                                                                     | (mm)  | 335                                 | 394                                 | 419                                 | 449                                 | 505                                 | 541                                   | 568                                   | 664                                   | 746                                   | 847                                   | 914                                   | 960                                   | 1077                                  |
| H1                                                                                    | (mm)  | 613                                 | 677                                 | 702                                 | 754                                 | 810                                 | 854                                   | 881                                   | 987                                   | 1069                                  | 1175                                  | 1242                                  | 1288                                  | 1455                                  |
| P1                                                                                    | (mm)  | 388                                 | 413                                 | 413                                 | 420                                 | 420                                 | 547                                   | 547                                   | 554                                   | 554                                   | 698                                   | 698                                   | 758                                   | 860                                   |
| P2                                                                                    | (mm)  | 98                                  | 128                                 | 128                                 | 133                                 | 133                                 | 189                                   | 189                                   | 194                                   | 194                                   | 331                                   | 331                                   | 420                                   | 455                                   |
| P3                                                                                    | (mm)  | 299                                 | 312                                 | 312                                 | 334                                 | 334                                 | 349                                   | 349                                   | 379                                   | 379                                   | 409                                   | 409                                   | 449                                   | 504                                   |
| P4                                                                                    | (mm)  | 215                                 | 202                                 | 202                                 | 203                                 | 203                                 | 165                                   | 165                                   | 158                                   | 158                                   | 175                                   | 175                                   | 208                                   | 258                                   |
| Type of actuator PN25<br>max. differential pressure 16 bar,<br>for CS- and TS-version |       | SA07.2-<br>GS50.3<br>(51:1)-<br>F10 | SA07.6-<br>GS63.3<br>(51:1)-<br>F12 | SA07.6-<br>GS63.3<br>(51:1)-<br>F12 | SA10.2-<br>GS80.3<br>(53:1)-<br>F14 | SA10.2-<br>GS80.3<br>(53:1)-<br>F14 | SA07.6-<br>GS100.3<br>(208:1)-<br>F16 | SA07.6-<br>GS100.3<br>(208:1)-<br>F16 | SA10.2-<br>GS125.3<br>(208:1)-<br>F16 | SA10.2-<br>GS125.3<br>(208:1)-<br>F25 | SA07.6-<br>GS160.3<br>(880:1)-<br>F30 | SA07.6-<br>GS160.3<br>(880:1)-<br>F30 | SA07.6-<br>GS200.3<br>(864:1)-<br>F30 | SA10.2-<br>GS250.3<br>(848:1)-<br>F35 |
| Output drive                                                                          | 1/min | 22                                  | 22                                  | 22                                  | 22                                  | 22                                  | 45                                    | 45                                    | 45                                    | 45                                    | 90                                    | 90                                    | 63                                    | 63                                    |
| Operating time                                                                        | s/90° | 35                                  | 35                                  | 35                                  | 36                                  | 36                                  | 69                                    | 69                                    | 69                                    | 69                                    | 147                                   | 147                                   | 206                                   | 202                                   |

| Weights with electric actuator |             |      |    |     |     |     |     |     |     |     |     |      |      |      |
|--------------------------------|-------------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 1.0619+QT                      | Fig. 34.122 | (kg) | 93 | 129 | 157 | 214 | 277 | 355 | 413 | 582 | 868 | 1160 | 1480 | 2018 |
| 1.4408                         | Fig. 54.122 | (kg) |    |     |     |     |     |     |     |     |     |      |      | 3272 |

**ZEDOX® Double flanged high performance valve with pneumatic rotary actuator AIR-TORQUE**



| Type of actuator | P1<br>(mm) | P2<br>(mm) |
|------------------|------------|------------|
| SC00450          | 394,5      | 166        |
| SC00600          | 422,5      | 181        |
| SC00900          | 474        | 200        |
| SC01200          | 528        | 221,5      |
| SC02000          | 605        | 262        |
| SC03000          | 710        | 330        |
| SC04000          | 812        | 371        |
| SC05000          | 855        | 418        |
| SC10000          | 950        | 528        |

| DN | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|-----|-----|-----|-----|-----|-----|-----|-----|

| Dimensions                                                                 |      |             |             |             |             |             |           |             |               |
|----------------------------------------------------------------------------|------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|---------------|
| E                                                                          | (mm) | 179         | 218         | 254         | 280         | 324         | 354       | 379         | 404           |
| H1 <sup>1)</sup>                                                           | (mm) | 606         | 689         | 768         | 882         | 965         | 1139      | 1166        | 1262          |
| Type of actuator<br>for max. differential pressure 16 bar <sup>2)</sup>    |      |             |             |             |             |             |           |             |               |
| Spring closes<br>flow from disc side<br>actuating pressure actuator 5 bar  | TS   | SC00600-5/6 | SC01200-5   | SC02000-5   | SC3000-5    | SC4000-5/6  | SC10000-4 | SC10000-4/5 | on<br>request |
|                                                                            | CS   | SC00900-5   | SC01200-5/6 | SC02000-5/6 | SC4000-5    | SC05000-5/6 | SC10000-4 | SC10000-5/6 |               |
| Spring closes<br>flow from disc side<br>actuating pressure actuator 6 bar  | TS   | SC00600-5/6 | SC01200-5   | SC02000-5   | SC3000-5    | SC4000-5/6  | SC05000-6 | SC10000-4/5 |               |
|                                                                            | CS   | SC00900-5   | SC01200-6   | SC02000-6   | SC4000-5    | SC05000-5/6 | SC10000-4 | SC10000-5/6 |               |
| Spring closes<br>flow from shaft side<br>actuating pressure actuator 5 bar | TS   | SC00600-4/5 | SC00900-5/6 | SC02000-4   | SC03000-4   | SC04000-4/5 | SC05000-5 | SC10000-4   | SC10000-5/6   |
|                                                                            | CS   | SC00600-5/6 | SC001200-5  | SC02000-5   | SC03000-5/6 | SC04000-5/6 | SC10000-4 | SC10000-4/5 | on request    |
| Spring closes<br>flow from shaft side<br>actuating pressure actuator 6 bar | TS   | SC00450-6   | SC00900-5/6 | SC02000-4   | SC02000-6   | SC04000-4/5 | SC05000-5 | SC10000-4   | SC10000-5/6   |
|                                                                            | CS   | SC00600-5/6 | SC001200-5  | SC02000-5   | SC03000-5/6 | SC04000-5/6 | SC05000-6 | SC10000-4/5 | on request    |

| Weights with pneumatic actuator <sup>1)</sup> |             |      |    |     |     |     |     |     |     |     |
|-----------------------------------------------|-------------|------|----|-----|-----|-----|-----|-----|-----|-----|
| 1.0619+QT                                     | Fig. 34.122 | (kg) | 98 | 138 | 191 | 318 | 398 | 522 | 580 | 738 |
| 1.4408                                        | Fig. 54.122 | (kg) |    |     |     |     |     |     |     |     |

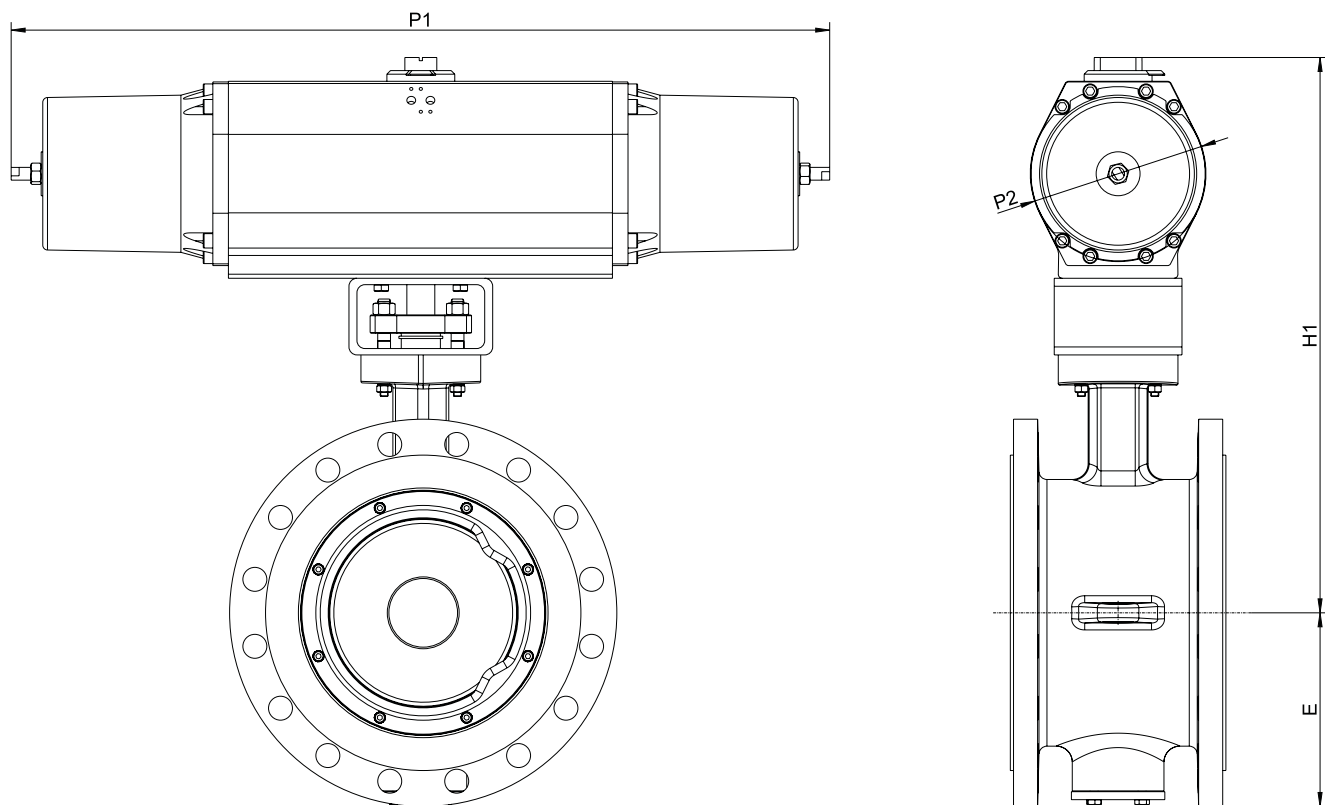
For steam duty use the next actuator up

<sup>1)</sup> with largest actuator option

<sup>2)</sup> other differential pressures on request

Actuator bigger than DN600 on request

**ZEDOX® Double flanged high performance valve with pneumatic actuator Rotork RC**



| DN | 200 | 250 | 300 | 350 | 400 <sup>2)</sup> | 450 <sup>2)</sup> | 500 <sup>2)</sup> |
|----|-----|-----|-----|-----|-------------------|-------------------|-------------------|
|----|-----|-----|-----|-----|-------------------|-------------------|-------------------|

| Dimensions                                   |      |            |  |  |  |  |  |
|----------------------------------------------|------|------------|--|--|--|--|--|
| E                                            | (mm) | on request |  |  |  |  |  |
| H1                                           | (mm) |            |  |  |  |  |  |
| P1                                           | (mm) |            |  |  |  |  |  |
| P2                                           | (mm) |            |  |  |  |  |  |
| Type of actuator spring closes <sup>1)</sup> |      |            |  |  |  |  |  |
| Type of actuator double acting <sup>1)</sup> |      |            |  |  |  |  |  |

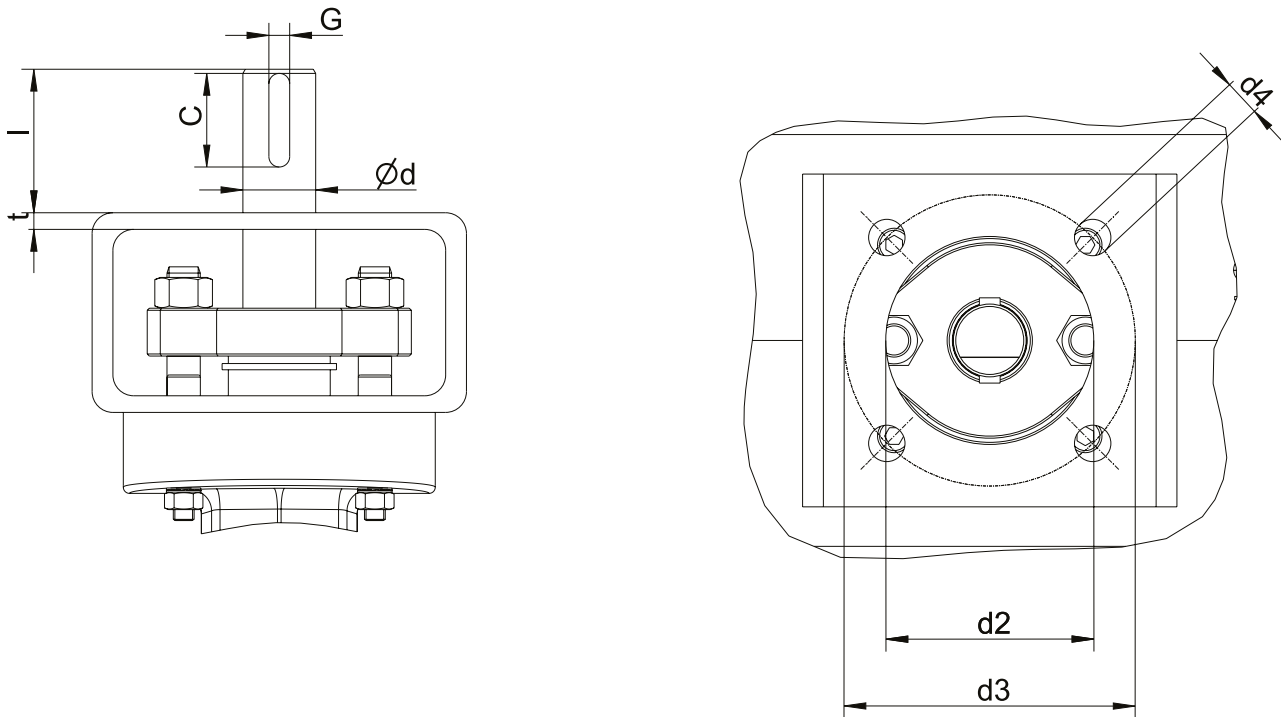
| Weights with pneumatic actuator |             |      |            |
|---------------------------------|-------------|------|------------|
| 1.0619+QT                       | Fig. 34.122 | (kg) | on request |
| 1.4408                          | Fig. 54.122 | (kg) |            |

<sup>1)</sup> at air pressure 6 bar

<sup>2)</sup>  $\Delta P$  max = 16 bar

actuator bigger than D N500 on request

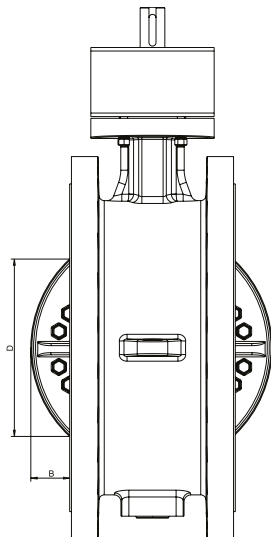
Actuator flange connection, with 2 parallel keys 180° rotated



| DN                                  |      | 200    | 250    | 300 | 350    | 400 | 450  | 500 | 600 | 700    | 800  | 900 | 1000 | 1200 |
|-------------------------------------|------|--------|--------|-----|--------|-----|------|-----|-----|--------|------|-----|------|------|
| Connection EN ISO 5211              |      | F10    | F12    |     | F14    |     | F16  |     |     | F25    | F30  |     |      | F35  |
| Ød (stem diameter)                  | (mm) | 25     | 30     | 35  | 40     |     | 50   | 50  | 60  | 70     | 70   | 90  | 100  | 140  |
| d2 (inside diameter)                | (mm) | 70     | 85     |     | 100    |     | 130  |     |     | 200    | 230  |     |      | 260  |
| d3 (screw-hole circle diameter)     | (mm) | 102    | 125    |     | 140    |     | 165  |     |     | 254    | 298  |     |      | 356  |
| n x d4 (Number x hole-Ø)            | (mm) | 4x10,5 | 4x13,5 |     | 4x17,5 |     | 4x22 |     |     | 8x17,5 | 8x22 |     |      | 8x33 |
| C (parallel key length)             | (mm) | 45     | 45     | 45  | 50     |     | 63   | 63  | 90  | 110    | 110  | 125 | 125  | 100  |
| G (parallel key width)              | (mm) | 8      | 8      | 10  | 12     |     | 14   | 14  | 18  | 20     | 20   | 25  | 28   | 36   |
| l (bare stem length)                | (mm) | 58     | 63     | 69  | 75     | 75  | 86   | 86  | 103 | 119    | 119  | 125 | 130  | 160  |
| t (mounting bracket wall thickness) | (mm) | 8      | 8      | 8   | 8      |     | 8    | 8   | 8   | 14     | 11   | 11  | 11   | 12   |

| Kvs-value / Zeta-value |        |      |      |      |      |      |      |       |       |       |       |       |       |       |
|------------------------|--------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| DN                     |        | 200  | 250  | 300  | 350  | 400  | 450  | 500   | 600   | 700   | 800   | 900   | 1000  | 1200  |
| Kvs-value              | (m³/h) | 775  | 1522 | 2862 | 4444 | 6413 | 9690 | 14430 | 16200 | 22160 | 28160 | 36180 | 39000 | 58000 |
| Zeta-value             | --     | 4,26 | 2,70 | 1,58 | 1,21 | 1,00 | 0,70 | 0,48  | 0,79  | 0,78  | 0,81  | 0,80  | 1,05  | 0,98  |

| Difference between disc outside-diameter and face-to-face |      |     |     |     |     |     |     |     |     |     |     |     |      |      |
|-----------------------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| DN                                                        |      | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
| B                                                         | (mm) | -   | -   | -   | 2   | 21  | 32  | 48  | 52  | 81  | 111 | 138 | 152  | 217  |
| D                                                         | (mm) | -   | -   | -   | 38  | 161 | 213 | 273 | 299 | 404 | 504 | 595 | 655  | 854  |





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**Double flanged high performance valve**

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