



## bælz 367

### DESCRIPTION

The bælz 367 ANSI 300 valve is a flanged and pressure rated 3-way control valve in accordance with US ANSI / ASME standards.

### TECHNICAL SPECIFICATIONS

Connection type: ASME / ANSI B16.5 flange

Plug type: parabolic plug

Control characteristic: equal percentage

Working media: liquids, gases, water, steam, thermal oil

### Leakage class (EN 1349)

metal-to-metal seal: 0.004% Kvs (better than class IV)

| Options                  |                                                                     | Designation example |
|--------------------------|---------------------------------------------------------------------|---------------------|
| Plug                     | Parabolic plug (standard)                                           | bælz 367            |
|                          | V-rings in PFTE standard                                            | bælz 367            |
| Cooling tube / Stem seal | Cooling tube                                                        | bælz 367-K          |
|                          | Cooling tube + double-wall stainless steel bellows and safety gland | bælz 367-K-SS       |
|                          | Double cooling tube (special construction)                          | bælz 367-KK         |

### T max. / P max. bælz 367 ANSI 300

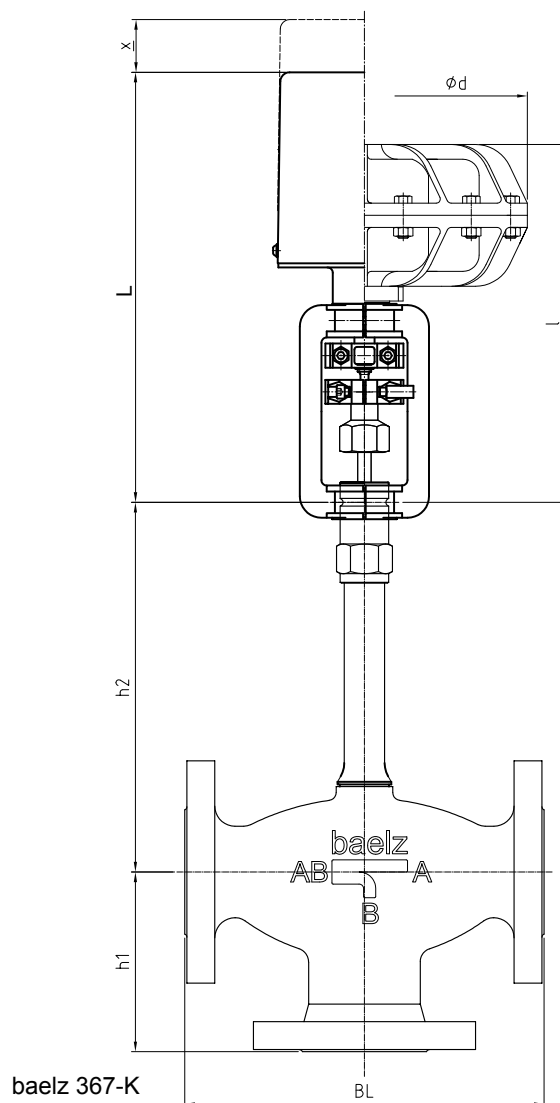
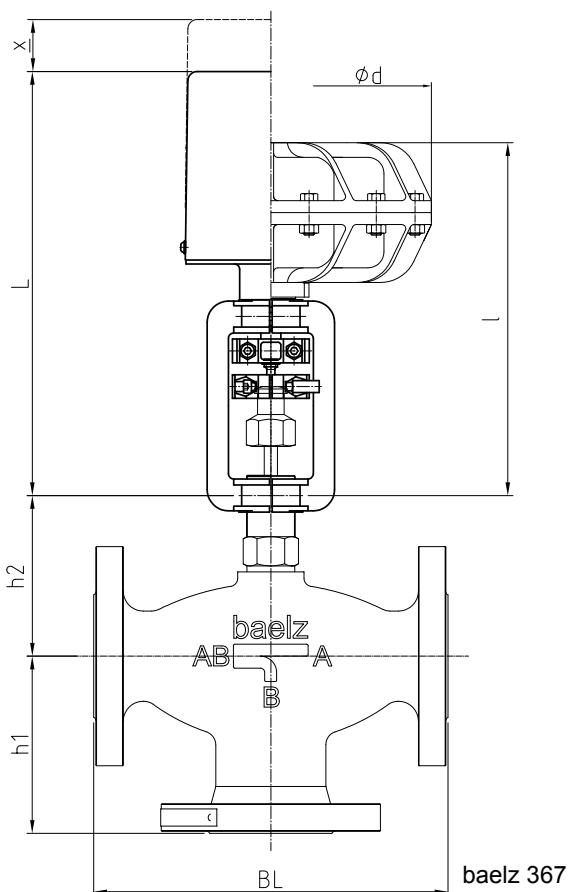
| Housing material              | 1.0619 (1.0432) / SA216WCB (SA105) |      |      |      |      |      |      |      |      |      |
|-------------------------------|------------------------------------|------|------|------|------|------|------|------|------|------|
| Temperature (°F)              | -20...100                          | 200  | 300  | 400  | 450  | 500  | 550  | 600  | 650  | 750  |
| bælz 367 - P max. (psi)       | 740                                | 680  | 655  | 635  | 620  | -    | -    | -    | -    | -    |
| bælz 367-K - P max. (psi)     | 740                                | 680  | 655  | 635  | 620  | 605  | 587  | 570  | 550  | -    |
| bælz 367-KK - P max. (psi)    | 740                                | 680  | 655  | 635  | 620  | 605  | 587  | 570  | 550  | 505  |
| bælz 367-K-SS - P max. (psi)  | 362                                | 362  | 362  | 362  | 362  | 362  | 362  | 362  | 362  | -    |
| bælz 367-KK-SS - P max. (psi) | 362                                | 362  | 362  | 362  | 362  | 362  | 362  | 362  | 362  | 362  |
| Temperature (°C)              | -29...38                           | 93   | 149  | 204  | 232  | 260  | 288  | 316  | 343  | 400  |
| bælz 367 - P max. (bar)       | 51.1                               | 46.9 | 45.1 | 43.8 | 42.7 | -    | -    | -    | -    | -    |
| bælz 367-K - P max. (bar)     | 51.1                               | 46.9 | 45.1 | 43.8 | 42.7 | 41.7 | 40.5 | 39.3 | 37.9 | -    |
| bælz 367-KK - P max. (bar)    | 51.1                               | 46.9 | 45.1 | 43.8 | 42.7 | 41.7 | 40.5 | 39.3 | 37.9 | 34.7 |
| bælz 367-K-SS - P max. (bar)  | 25                                 | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | -    |
| bælz 367-KK-SS - P max. (bar) | 25                                 | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |

### bælz 367 ANSI 300 valve stroke, seat diameter and Kvs values

| Nominal width      | 2"   | 3"    | 4"    |
|--------------------|------|-------|-------|
| Stroke (")         | 0.87 | 0.87  | 0.87  |
| Seat Ø (")         | 1.97 | 3.15  | 3.93  |
| Cv (US GPM)        | 41.8 | 121.8 | 150.8 |
| Nominal width (mm) | 50   | 80    | 100   |
| Stroke (mm)        | 22   | 22    | 22    |
| Seat Ø (mm)        | 50   | 80    | 100   |
| Kvs value (m³/h)   | 36   | 105   | 130   |

| Dimensions of the baelz actuators |        |     |         |      |        |     |        |     |        |     |         |      |        |     |
|-----------------------------------|--------|-----|---------|------|--------|-----|--------|-----|--------|-----|---------|------|--------|-----|
| Actuator                          | L      |     | L 367-K |      | x      |     | Ød     |     | I      |     | I 367-K |      | ØD     |     |
|                                   | inches | mm  | inches  | mm   | inches | mm  | inches | mm  | inches | mm  | inches  | mm   | inches | mm  |
| E 45                              | 20.6   | 522 | 39.5    | 1002 | 5.9    | 150 | 6.81   | 173 |        |     |         |      |        |     |
| E 66                              | 24.8   | 630 | 43.7    | 1109 | 7.9    | 200 | 7.4    | 188 |        |     |         |      |        |     |
| P 31                              |        |     |         |      |        |     |        |     | 20     | 509 | 38.9    | 989  | 15.1   | 384 |
| P 32                              |        |     |         |      |        |     |        |     | 20.7   | 525 | 39.6    | 1005 | 15.1   | 384 |
| P 41                              |        |     |         |      |        |     |        |     | 22.1   | 562 | 41      | 1042 | 19.9   | 506 |
| P 41-V6                           |        |     |         |      |        |     |        |     | 27.1   | 687 | 45.9    | 1167 | 19.9   | 506 |

| bælz 367 dimensions and weights |     |        |     |        |       |        |     |          |     |      |      |       |      |          |      |
|---------------------------------|-----|--------|-----|--------|-------|--------|-----|----------|-----|------|------|-------|------|----------|------|
| DN                              |     | BL     |     | h1     |       | h2     |     | h2 367-K |     | 367  |      | 367-K |      | 367-K-SS |      |
| in.                             | mm  | inches | mm  | inches | mm    | inches | mm  | inches   | mm  | lbs  | kg   | lbs   | kg   | lbs      | kg   |
| 2"                              | 50  | 10.51  | 267 | 5.25   | 133.5 | 4.8    | 121 | 10.83    | 275 | 32.8 | 14.9 | 39.7  | 18.0 | 40.1     | 18.2 |
| 3"                              | 80  | 12.52  | 318 | 6.25   | 159   | 6.06   | 154 | 10.6     | 269 | 64   | 29   | 67.1  | 30.4 | 69.7     | 31.6 |
| 4"                              | 100 | 14.5   | 368 | 7.25   | 184   | 6.65   | 169 | 10.32    | 262 | 108  | 49.2 | 112   | 50.7 | 115      | 51.9 |



**Maximum differential pressure  $\Delta P_{max}$  (bar) at which the actuator closes the valve completely**

The differential pressures specified here are limited by the nominal pressure of the housings, if this is lower.

**Electric actuators. 3-way valves as mixing valves. Plug closes against the flow.**

| Actuator<br>bælz 373- | Power (N) | DN (mm) / maximum differential pressure $\Delta P_{max}$ (bar) |     |     |
|-----------------------|-----------|----------------------------------------------------------------|-----|-----|
|                       |           | 50                                                             | 80  | 100 |
| E07- 20-              | 2000      | 8                                                              | 3   | 2   |
| E65- 11-              | 1100      | 3.5                                                            | 0.9 | 0.3 |
| E65- 20-              | 2000      | 8                                                              | 3   | 2   |
| E45- 40-              | 4000      | 16                                                             | 6.9 | 4.4 |
| E88- 100-             | 10000     |                                                                | 18  | 11  |
| E88- 100-             | 13000     |                                                                | 24  | 15  |
| E88- 100-             | 16000     |                                                                | 30  | 19  |

**Electric actuators. 3-way valves as diverting valves. Plug closes in direction of flow.**

| Actuator<br>bælz 373- | Power (N) | DN (mm) / maximum differential pressure $\Delta P_{max}$ (bar) |     |     |
|-----------------------|-----------|----------------------------------------------------------------|-----|-----|
|                       |           | 50                                                             | 80  | 100 |
| E07- 20-              | 2000      | 0.6                                                            | 0.6 | 0.6 |
| E65- 11-              | 1100      | 0.6                                                            | 0.6 | 0.6 |
| E65- 20-              | 2000      | 0.6                                                            | 0.6 | 0.6 |
| E45- 40-              | 4000      | 0.6                                                            | 0.6 | 0.6 |

**Pneumatic actuators. 3-way valves as mixing valves. Plug closes against the flow.**

| Actuator<br>bælz 373- | Power (N) | req. feed<br>pressure<br>(bar) | DN (mm) / maximum differential pressure $\Delta P_{max}$ (bar) |     |     |
|-----------------------|-----------|--------------------------------|----------------------------------------------------------------|-----|-----|
|                       |           |                                | 50                                                             | 80  | 100 |
| P21- 3                | 1020      | 1.2                            | 1.1                                                            | 0.4 | 0.3 |
| P21- 6                | 2040      | 3.0                            | 8                                                              | 3.3 | 2.1 |
| P21- 12               | 3390      | 6.0                            | 14                                                             | 5.6 | 3.6 |
| P21- 18               | 4030      | 6.0                            | 17                                                             | 7   | 4.3 |
| P21- V6               | 7590      | 6.0                            | 7                                                              | 2.8 | 1.8 |

**Pneumatic actuators. 3-way valves as diverting valves. Plug closes in direction of flow.**

| Actuator<br>bælz 373- | Power (N) | req. feed<br>pressure<br>(bar) | DN (mm) / maximum differential pressure $\Delta P_{max}$ (bar)                                                                                                                        |    |     |
|-----------------------|-----------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|                       |           |                                | 50                                                                                                                                                                                    | 80 | 100 |
| all                   |           | 1.2 - 6.0                      | All diverting valves may only be utilized up to 0.6 bar differential pressure.<br>If a diverting valve with > 0.6 bar is required, a damping device must be provided on the actuator. |    |     |