

## Stainless steel ball valves with pneumatic rotary actuator

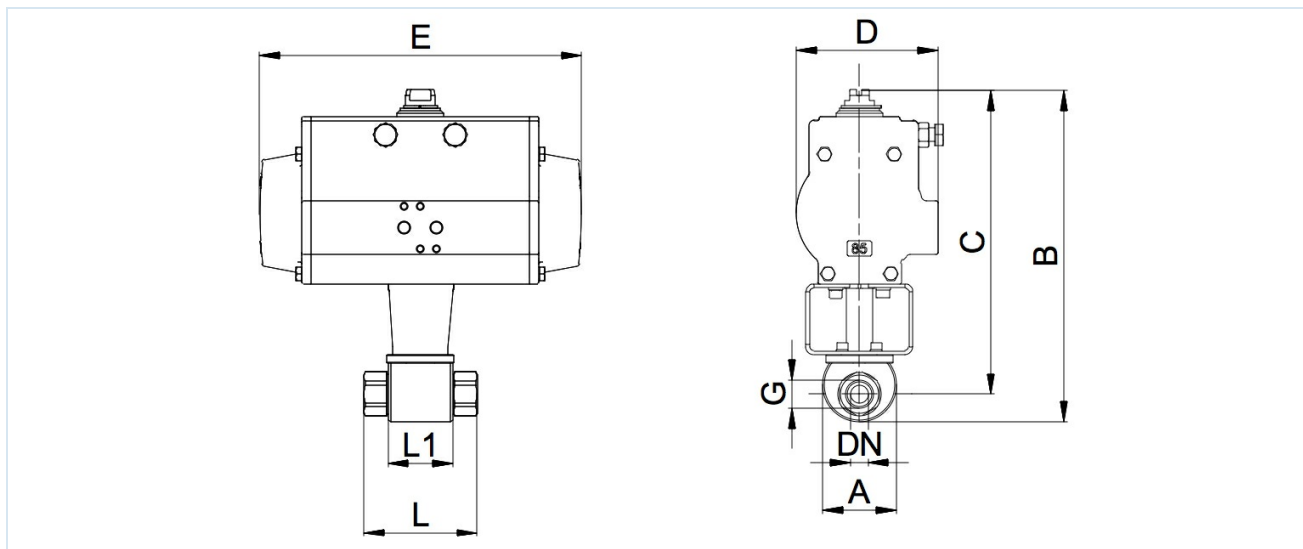
### Series BA066 and BA067



|                               |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type                   | Actuator: piston actuator with 2 opposed pistons, elastic sealing, actuator in all details in accordance with ISO 5211 or according to NAMUR recommendations, End positions adjustable on both sides $\pm 5^\circ$                                                                                                                                                                              |
| Connection                    | G1/8" ... G1" according to ISO228/1                                                                                                                                                                                                                                                                                                                                                             |
| Materials<br>Standard version | Actuator: Hard anodized aluminium, Pinion, nickel-plated steel, Piston guide POM, Seals NBR<br>Ball valve: Body and ball stainless steel 1.4571, Seals PEEK/FKM                                                                                                                                                                                                                                 |
| Function                      | available in double-acting or single-acting Version                                                                                                                                                                                                                                                                                                                                             |
| Mounting type                 | Installation in rigid piping system                                                                                                                                                                                                                                                                                                                                                             |
| Mounting position             | any                                                                                                                                                                                                                                                                                                                                                                                             |
| Control medium                | filtered and lubricated or non-lubricated compressed air                                                                                                                                                                                                                                                                                                                                        |
| Application range             | gaseous and liquid media that do not attack the materials used                                                                                                                                                                                                                                                                                                                                  |
| Medium temperature            | $-20 \dots +100^\circ\text{C}$                                                                                                                                                                                                                                                                                                                                                                  |
| Ambient temperature           | $-20 \dots +85^\circ\text{C}$                                                                                                                                                                                                                                                                                                                                                                   |
| Control pressure              | 5,5...8bar, Adaptation to lower pilot pressures possible on request                                                                                                                                                                                                                                                                                                                             |
| Operating pressure            | 0bar up to Operating pressure according to table                                                                                                                                                                                                                                                                                                                                                |
| Special version               | Stainless steel pinion, ATEX, Ambient temperatures from $-40^\circ\text{C} \dots +85^\circ\text{C}$ , or rather $-20^\circ\text{C} \dots +150^\circ\text{C}$ on request                                                                                                                                                                                                                         |
| Accessories                   | assembled manual, pneumatic or electric control valve<br>electrical end position feedback, Positioner in I/P or P/P version<br>Adjustment of the switching speed                                                                                                                                                                                                                                |
| Ordering note                 | When ordering, please also specify pilot pressure, operating medium, operating pressure and operating temperature.                                                                                                                                                                                                                                                                              |
| Application note              | The pressure and temperature specifications are maximum values for normal conditions, for lubricating or non-degreasing media. Degreasing media in particular reduce the specified values and increase the required torque. For these special cases, we recommend prior consultation. When selecting the valve, the lowest control pressure occurring in the system must be taken as the basis. |



## Dimensions



### Ball valves with double-acting rotary actuator for liquids

| Connection<br>G | Nominal size<br>DN[mm] | max. operating pressure<br>[bar] | A  | B   | C   | D  | E   | L   | L1   | Actuator type | Weight<br>[approx. kg] | Type        |
|-----------------|------------------------|----------------------------------|----|-----|-----|----|-----|-----|------|---------------|------------------------|-------------|
| G1/8"           | 10                     | 400                              | 50 | 210 | 192 | 81 | 164 | 73  | 43,2 | PAD063        | 2,5                    | BA066-18-D0 |
| G1/4"           | 10                     | 400                              | 50 | 210 | 192 | 81 | 164 | 73  | 43,2 | PAD063        | 2,5                    | BA066-14-D0 |
| G3/8"           | 10                     | 400                              | 50 | 210 | 192 | 81 | 164 | 73  | 43,2 | PAD063        | 2,5                    | BA066-38-D0 |
| G1/2"           | 13                     | 400                              | 55 | 214 | 194 | 81 | 164 | 85  | 48,2 | PAD063        | 2,7                    | BA066-12-D0 |
| G3/4"           | 20                     | 400                              | 70 | 244 | 217 | 81 | 164 | 96  | 62,2 | PAD063        | 4,6                    | BA066-34-D0 |
| G1"             | 24                     | 400                              | 75 | 265 | 236 | 95 | 210 | 113 | 66,2 | PAD075        | 5,2                    | BA066-10-D0 |

### Ball valves with single-acting rotary actuator for liquids

| Connection<br>G | Nominal size<br>DN[mm] | max. operating pressure<br>[bar] | A  | B   | C   | D   | E   | L   | L1   | Actuator type | Weight<br>[approx. kg] | Type        |
|-----------------|------------------------|----------------------------------|----|-----|-----|-----|-----|-----|------|---------------|------------------------|-------------|
| G1/8"           | 10                     | 400                              | 50 | 242 | 224 | 106 | 241 | 73  | 43,2 | PAS0855       | 5,6                    | BA066-18-S0 |
| G1/4"           | 10                     | 400                              | 50 | 242 | 224 | 106 | 241 | 73  | 43,2 | PAS0855       | 5,6                    | BA066-14-S0 |
| G3/8"           | 10                     | 400                              | 50 | 242 | 224 | 106 | 241 | 73  | 43,2 | PAS0855       | 5,6                    | BA066-38-S0 |
| G1/2"           | 13                     | 400                              | 55 | 246 | 225 | 106 | 241 | 85  | 48,2 | PAS0855       | 5,8                    | BA066-12-S0 |
| G3/4"           | 20                     | 400                              | 70 | 289 | 262 | 123 | 275 | 96  | 62,2 | PAS1005       | 8,9                    | BA066-34-S0 |
| G1"             | 24                     | 400                              | 75 | 293 | 264 | 123 | 275 | 113 | 66,2 | PAS1005       | 9,4                    | BA066-10-S0 |

Single-acting actuators are supplied spring-closing (NC) unless otherwise ordered.



## Ball valves with double-acting rotary actuator for neutral gases

| Connection<br>G | Nominal size<br>DN[mm] | max. operating pressure<br>[bar] | A  | B   | C   | D  | E   | L   | L1   | Actuator type | Weight<br>[approx. kg] | Type        |
|-----------------|------------------------|----------------------------------|----|-----|-----|----|-----|-----|------|---------------|------------------------|-------------|
| G1/8"           | 10                     | 400                              | 50 | 210 | 192 | 81 | 164 | 73  | 43,2 | PAD063        | 2,5                    | BA067-18-D0 |
| G1/4"           | 10                     | 400                              | 50 | 210 | 192 | 81 | 164 | 73  | 43,2 | PAD063        | 2,5                    | BA067-14-D0 |
| G3/8"           | 10                     | 400                              | 50 | 210 | 192 | 81 | 164 | 73  | 43,2 | PAD063        | 2,5                    | BA067-38-D0 |
| G1/2"           | 13                     | 400                              | 55 | 214 | 194 | 81 | 164 | 85  | 48,2 | PAD063        | 2,7                    | BA067-12-D0 |
| G3/4"           | 20                     | 250                              | 70 | 244 | 217 | 81 | 164 | 96  | 62,2 | PAD063        | 4,6                    | BA067-34-D0 |
| G1"             | 24                     | 250                              | 75 | 265 | 236 | 95 | 210 | 113 | 66,2 | PAD075        | 5,3                    | BA067-10-D0 |

## Ball valves with single-acting rotary actuator for neutral gases

| Connection<br>G | Nominal size<br>DN[mm] | max. operating pressure<br>[bar] | A  | B   | C   | D   | E   | L   | L1   | Actuator type | Weight<br>[approx. kg] | Type        |
|-----------------|------------------------|----------------------------------|----|-----|-----|-----|-----|-----|------|---------------|------------------------|-------------|
| G1/8"           | 10                     | 400                              | 50 | 242 | 224 | 106 | 241 | 73  | 43,2 | PAS0855       | 5,6                    | BA067-18-S0 |
| G1/4"           | 10                     | 400                              | 50 | 242 | 224 | 106 | 241 | 73  | 43,2 | PAS0855       | 5,6                    | BA067-14-S0 |
| G3/8"           | 10                     | 400                              | 50 | 242 | 224 | 106 | 241 | 73  | 43,2 | PAS0855       | 5,6                    | BA067-38-S0 |
| G1/2"           | 13                     | 400                              | 55 | 246 | 225 | 106 | 241 | 85  | 48,2 | PAS0855       | 5,8                    | BA067-12-S0 |
| G3/4"           | 20                     | 250                              | 70 | 289 | 262 | 123 | 275 | 96  | 62,2 | PAS1005       | 8,9                    | BA067-34-S0 |
| G1"             | 24                     | 250                              | 75 | 293 | 264 | 123 | 275 | 113 | 66,2 | PAS1005       | 9,4                    | BA067-10-S0 |

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Design, dimensional and material changes reserved

Armatures / Ball valves - automatically operated / Other materials - A03 / Ball valve with pneumatic actuator Series BA066-D0

