



## ARI Control valve two way fig. 2831 series 12.448 cast iron electric flange

### Characteristics

**Serie:** 12.448  
**Type:** 2831  
**Housing material:** Cast iron  
**Material quality:** EN-JL1040  
**Connection:** Flange  
**Standard connection:** EN 1092-1/02  
**Ground characteristic:** Equal percentage  
**Plug:** Parabolic cone  
**Control range:** 50:1  
**Leakage class:** IV EN60534-4  
**Material bonnet:** 1.0619+N  
**Material cone:** 1.4021  
**Seat material:** 1.4021  
**Spindle material:** 1.4021  
**Secondary spindle seal material:** PTFE  
**Bonnet gasket material:** Graphite  
**Medium temperature:** -10 / 220 °C  
**Ambient temperature:** -20 / 70 °C

### Characteristics [2]

**Surface protection:** Paint min. 30 µm  
**Type of actuator:** Electrical  
**Zero-pressure return flow:** None  
**Max. electric power input:** 65 VA  
**Control signal:** Three-point / 0 - 10 V / 4-20 mA  
**With feedback signal:** No  
**Level of protection (IP value):** IP65  
**With end contacts:** No  
**Position indicator:** Yes  
**Manual operation:** Yes

| DN<br>[mm] | L   | H (Premio) |      | A (Premio) |          |       |
|------------|-----|------------|------|------------|----------|-------|
|            |     | 2,2 kN     | 5 kN | 15 kN      | , 2/5 kN | 15 kN |
| 15         | 130 | 496        | 496  | -          | 171      | -     |
| 20         | 150 | 496        | 496  | -          | 171      | -     |
| 25         | 160 | 511        | 511  | -          | 171      | -     |
| 32         | 180 | 511        | 511  | -          | 171      | -     |
| 40         | 200 | 526        | 526  | -          | 171      | -     |
| 50         | 230 | 533        | 533  | -          | 171      | -     |
| 65         | 290 | -          | 550  | 667        | 171      | 210   |
| 80         | 310 | -          | 572  | 689        | 171      | 210   |
| 100        | 350 | -          | 588  | 705        | 171      | 210   |

| Nominal inner diameter | Connection size | Pressure rating flange | Kvs value | Stroke<br>mm | Stem seal type | Type of drive   | Adjusting force | Supply voltage           | Operating time<br>s   | Article              |
|------------------------|-----------------|------------------------|-----------|--------------|----------------|-----------------|-----------------|--------------------------|-----------------------|----------------------|
|                        |                 |                        |           |              |                |                 | kN              |                          |                       |                      |
| DN15                   | DN15            | PN16                   | 0.1       | 10           | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-C9NAX001 |
| DN15                   | DN15            | PN16                   | 0.16      | 10           | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-C9NAX002 |
| DN15                   | DN15            | PN16                   | 0.25      | 10           | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-C9NAX003 |
| DN15                   | DN15            | PN16                   | 0.4       | 10           | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-C1NAX000 |
| DN15                   | DN15            | PN16                   | 0.63      | 10           | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-C2NAX000 |

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

| Nominal inner diameter | Connection size | Pressure rating flange | Kvs value | Stroke | Stem seal type | Type of drive   | Adjusting force | Supply voltage           | Operating time        | Article              |
|------------------------|-----------------|------------------------|-----------|--------|----------------|-----------------|-----------------|--------------------------|-----------------------|----------------------|
|                        |                 |                        |           | mm     |                |                 | kN              |                          | s                     |                      |
| DN15                   | DN15            | PN16                   | 1         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-CANAX000 |
| DN15                   | DN15            | PN16                   | 1.6       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-CBNAX000 |
| DN15                   | DN15            | PN16                   | 2.5       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-CCNAX000 |
| DN15                   | DN15            | PN16                   | 4         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315015-CDNAX000 |
| DN20                   | DN20            | PN16                   | 0.1       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-C9NAX001 |
| DN20                   | DN20            | PN16                   | 0.16      | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-C9NAX002 |
| DN20                   | DN20            | PN16                   | 0.25      | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-C9NAX003 |
| DN20                   | DN20            | PN16                   | 0.4       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-C1NAX000 |
| DN20                   | DN20            | PN16                   | 0.63      | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-C2NAX000 |
| DN20                   | DN20            | PN16                   | 1         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-CANAX000 |
| DN20                   | DN20            | PN16                   | 1.6       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-CBNAX000 |
| DN20                   | DN20            | PN16                   | 2.5       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-CCNAX000 |
| DN20                   | DN20            | PN16                   | 4         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-CDNAX000 |
| DN20                   | DN20            | PN16                   | 6.3       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315020-CENAX000 |
| DN25                   | DN25            | PN16                   | 0.1       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-C9NAX001 |
| DN25                   | DN25            | PN16                   | 0.16      | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-C9NAX002 |
| DN25                   | DN25            | PN16                   | 0.25      | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-C9NAX003 |
| DN25                   | DN25            | PN16                   | 0.4       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-C1NAX000 |
| DN25                   | DN25            | PN16                   | 0.63      | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-C2NAX000 |
| DN25                   | DN25            | PN16                   | 1         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-CANAX000 |
| DN25                   | DN25            | PN16                   | 1.6       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-CBNAX000 |
| DN25                   | DN25            | PN16                   | 2.5       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-CCNAX000 |
| DN25                   | DN25            | PN16                   | 4         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-CDNAX000 |
| DN25                   | DN25            | PN16                   | 6.3       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-CENAX000 |
| DN25                   | DN25            | PN16                   | 10        | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315025-CFNAX000 |
| DN32                   | DN32            | PN16                   | 1         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315032-CANAX000 |
| DN32                   | DN32            | PN16                   | 1.6       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315032-CBNAX000 |
| DN32                   | DN32            | PN16                   | 2.5       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315032-CCNAX000 |
| DN32                   | DN32            | PN16                   | 4         | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315032-CDNAX000 |
| DN32                   | DN32            | PN16                   | 6.3       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315032-CENAX000 |
| DN32                   | DN32            | PN16                   | 10        | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315032-CFNAX000 |
| DN32                   | DN32            | PN16                   | 16        | 15     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s | EC028315032-CGNAX000 |
| DN40                   | DN40            | PN16                   | 6.3       | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315040-CENAX000 |
| DN40                   | DN40            | PN16                   | 10        | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s | EC028315040-CFNAX000 |

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

| Nominal inner diameter | Connection size | Pressure rating flange | Kvs value | Stroke | Stem seal type | Type of drive   | Adjusting force | Supply voltage           | Operating time         | Article              |
|------------------------|-----------------|------------------------|-----------|--------|----------------|-----------------|-----------------|--------------------------|------------------------|----------------------|
|                        |                 |                        |           | mm     |                |                 | kN              |                          | s                      |                      |
| DN40                   | DN40            | PN16                   | 16        | 15     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028315040-CGNAX000 |
| DN40                   | DN40            | PN16                   | 25        | 15     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028315040-CHNAX000 |
| DN50                   | DN50            | PN16                   | 10        | 10     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 10s / 21s / 26s / 40s  | EC028315050-CFNAX000 |
| DN50                   | DN50            | PN16                   | 16        | 15     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028315050-CGNAX000 |
| DN50                   | DN50            | PN16                   | 25        | 15     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028315050-CHNAX000 |
| DN50                   | DN50            | PN16                   | 40        | 15     | Roof cuffs     | Premio-plus 2,2 | 2.2             | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028315050-CJNAX000 |
| DN50                   | DN50            | PN16                   | 40        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316050-CJNAX000 |
| DN65                   | DN65            | PN16                   | 16        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316065-CGNAX000 |
| DN65                   | DN65            | PN16                   | 25        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316065-CHNAX000 |
| DN65                   | DN65            | PN16                   | 40        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316065-CJNAX000 |
| DN65                   | DN65            | PN16                   | 63        | 20     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 20s / 43s / 53s / 80s  | EC028316065-CKNAX000 |
| DN80                   | DN80            | PN16                   | 25        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316080-CHNAX000 |
| DN80                   | DN80            | PN16                   | 40        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316080-CJNAX000 |
| DN80                   | DN80            | PN16                   | 63        | 20     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 20s / 43s / 53s / 80s  | EC028316080-CKNAX000 |
| DN80                   | DN80            | PN16                   | 100       | 25     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 25s / 53s / 66s / 100s | EC028316080-CLNAX000 |
| DN80                   | DN80            | PN16                   | 100       | 25     | Roof cuffs     | Premio-plus 15  | 15              | 90-264 VAC / 127-370 VDC | 32s / 66s / 81s / 125s | EC02831R080-CLNAX000 |
| DN100                  | DN100           | PN16                   | 40        | 15     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 15s / 32s / 39s / 60s  | EC028316100-CJNAX000 |
| DN100                  | DN100           | PN16                   | 63        | 20     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 20s / 43s / 53s / 80s  | EC028316100-CKNAX000 |
| DN100                  | DN100           | PN16                   | 100       | 25     | Roof cuffs     | Premio-plus 5   | 5               | 90-264 VAC / 127-370 VDC | 25s / 53s / 66s / 100s | EC028316100-CLNAX000 |
| DN100                  | DN100           | PN16                   | 100       | 25     | Roof cuffs     | Premio-plus 15  | 15              | 90-264 VAC / 127-370 VDC | 32s / 66s / 81s / 125s | EC02831R100-CLNAX000 |
| DN100                  | DN100           | PN16                   | 160       | 30     | Roof cuffs     | Premio-plus 15  | 15              | 90-264 VAC / 127-370 VDC | 38s / 79s / 97s / 150s | EC02831R100-CMNAX000 |

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.