



## ORBINOX Knifegate valve Series: EB Type: 5414 Stainless steel Pneumatic operated Wafer type

### Characteristics

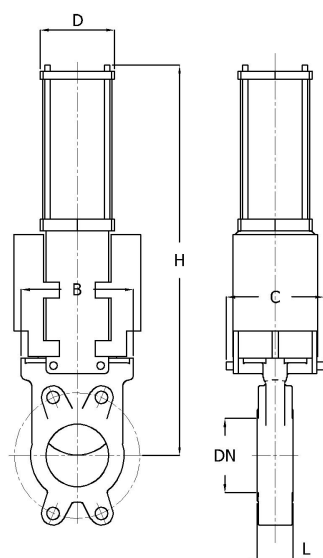
**Series:** EB  
**Type:** 5414  
**Norm:** EN (DIN)  
**Housing construction:** 1-part  
**Housing material:** Stainless steel  
**Material quality:** 1.4401  
**Connection:** Wafer type  
**Operating principle:** Double acting  
**Type of sealing:** Bi-directional

**Spindle material:** AISI 430  
**Material bracket:** 1.4301  
**Medium temperature:** -10 / 120 °C  
**Max. pressure at sliding plate:** 10 bar

### Application

- Recommended in: Chemical, Food & Beverages

Size table:



| DN    | B   | C   | D   | H   | L  | Cord length | Air supply connection | Weight |
|-------|-----|-----|-----|-----|----|-------------|-----------------------|--------|
|       | mm  | mm  | mm  | mm  | mm | cm          |                       | kg     |
| DN50  | 119 | 100 | 115 | 412 | 43 | 24          | 1/4"                  | 9      |
| DN65  | 134 | 100 | 115 | 454 | 46 | 29          | 1/4"                  | 10     |
| DN80  | 149 | 100 | 115 | 497 | 46 | 34          | 1/4"                  | 11     |
| DN100 | 169 | 100 | 115 | 558 | 52 | 41          | 1/4"                  | 13.5   |
| DN150 | 210 | 100 | 140 | 703 | 56 | 57          | 1/4"                  | 22     |

Pressure temperature table

| Orifice      | -10 < > 20 °C | 80 °C    | 100 °C  | 150 °C  | 200 °C  | 250 °C  | 300 °C  | 350 °C  | 400 °C  | 450 °C  | 500 °C  | 550 °C  |
|--------------|---------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DN50 - DN250 | 10.0 bar      | 10.0 bar | 7.5 bar | 6.8 bar | 6.0 bar | 5.6 bar | 5.2 bar | 5.0 bar | 4.7 bar | 4.5 bar | 4.4 bar | 4.3 bar |
| DN300 DN400  | 6.0 bar       | 6.0 bar  | 4.5 bar | 4.1 bar | 3.6 bar | 3.4 bar | 3.1 bar | 3.0 bar | 2.8 bar | 2.7 bar | 2.6 bar | 2.6 bar |
| DN450        | 5.0 bar       | 5.0 bar  | 3.8 bar | 3.4 bar | 3.0 bar | 2.8 bar | 2.6 bar | 2.5 bar | 2.4 bar | 2.3 bar | 2.2 bar | 2.2 bar |
| DN500 DN600  | 4.0 bar       | 4.0 bar  | 3.0 bar | 2.0 bar | 2.4 bar | 2.2 bar | 2.1 bar | 2.0 bar | 1.9 bar | 1.9 bar | 1.8 bar | 1.7 bar |

Maximum temperature table sealing

| Sealing material | Temperature <sup>max</sup> | Sealing material | Temperature <sup>max</sup> |
|------------------|----------------------------|------------------|----------------------------|
| EPDM             | 120 °C                     | Silicone         | 250 °C                     |

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| Maximum temperature table sealing |                            |                  |                            |
|-----------------------------------|----------------------------|------------------|----------------------------|
| Sealing material                  | Temperature <sup>max</sup> | Sealing material | Temperature <sup>max</sup> |
| NBR                               | 120 °C                     | PTFE             | 250 °C                     |
| FKM                               | 200 °C                     | Metall           | 550 °C                     |

| Nominal inner diameter | Pressure rating | Pressure rating flange | Face to Face norm | Face to Face length<br>mm | Operation               | Sealing | Plate material | Primary spindle seal material | Actuator material | Article  |
|------------------------|-----------------|------------------------|-------------------|---------------------------|-------------------------|---------|----------------|-------------------------------|-------------------|----------|
| DN50                   | PN10            | PN10                   | EN 558, Series 20 | 43                        | Pneumatic double acting | EPDM    | 1.4401         | PTFE/EPDM                     | Aluminium (L2520) | 13207299 |
| DN65                   | PN10            | PN10                   | EN 558, Series 20 | 46                        | Pneumatic double acting | EPDM    | 1.4401         | PTFE/EPDM                     | Aluminium (L2520) | 13207300 |
| DN80                   | PN10            | PN10                   | EN 558, Series 20 | 46                        | Pneumatic double acting | EPDM    | 1.4401         | PTFE/EPDM                     | Aluminium (L2520) | 13207302 |
| DN100                  | PN10            | PN10                   | EN 558, Series 20 | 52                        | Pneumatic double acting | EPDM    | 1.4401         | PTFE/EPDM                     | Aluminium (L2520) | 13207304 |
| DN150                  | PN10            | PN10                   | EN 558, Series 20 | 56                        | Pneumatic double acting | EPDM    | 1.4401         | PTFE/EPDM                     | Aluminium (L2520) | 13207306 |

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