

## D-BS6-T Automatic Combined Blowdown System



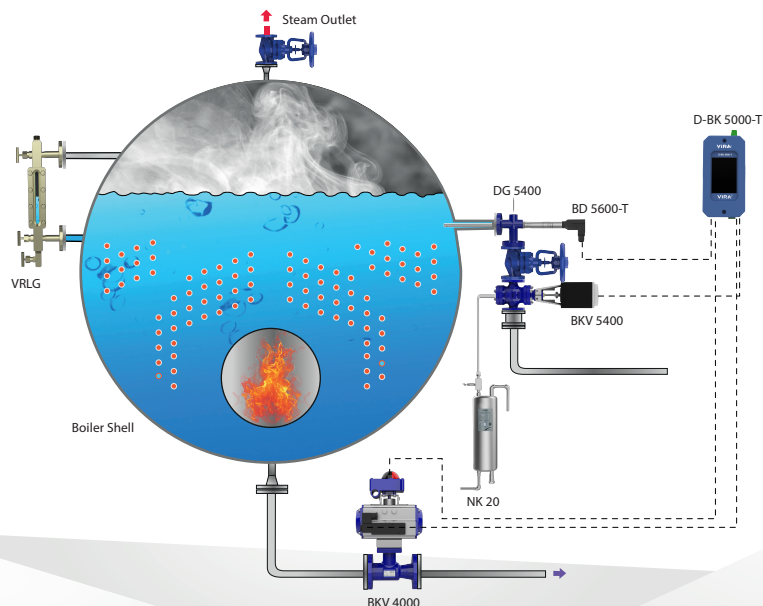
### Combined Blowdown Controller

|                |                                                                                                                                                                                                                                                                                                                                         |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type           | : D-BK 5000-T                                                                                                                                                                                                                                                                                                                           |
| Supply Voltage | : 24VDC                                                                                                                                                                                                                                                                                                                                 |
| Enclosure      | : Panel-mount and Din Rail Type                                                                                                                                                                                                                                                                                                         |
| Functions      | : Cond. Measurement & Cont. Blowdown Valve Control, Bottom Blowd. Valve Control, High TDS Alarm, Bottom Blowd. Valve Stuck Open Alarm, Bottom Blowd. Valve Stuck Closed, Adjustable Setpoints & Hysteresis, Touchscreen Display, Multi-Language Interface, Alarm Reset, Blowdown Timer, Adjustable Bottom Blowd. Interval and Duration. |
| Outputs        | : 1 TDS Blowdown Valve Control Relay, 1 Bottom Blowdown Valve Control Relay, 1 Common Alarm Relay, 4–20 mA Analog Conductivity Output, RS485 Modbus                                                                                                                                                                                     |
| Features       | : Conductivity Set Value, Alarm Set Value, Valve Relay Test, Alarm Relay Test, Temperature Compensation                                                                                                                                                                                                                                 |
| Compliance     | : CE (EMC 2014/30/EU, LVD 2014/35/EU), Type Approval, (Module B + D), EN 12952 & EN 12953                                                                                                                                                                                                                                               |

### Temperature Compensation Type Conductivity Probe

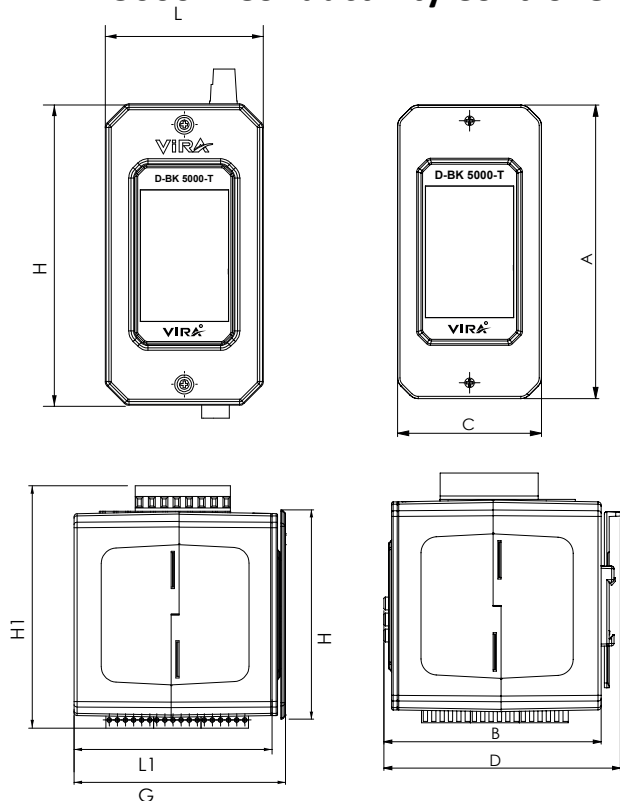
|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Type                | : BD 5600-T                                                              |
| Nominal Pressure    | : PN 40                                                                  |
| Max. Operat. Temp.  | : 239 °C                                                                 |
| Max. Operat. Press. | : 32 Bar g                                                               |
| Connection          | : G 1/2" BSPT (Optional NPT)                                             |
| Max. Ambient Temp.  | : 75 °C                                                                  |
| Compliance          | : CE (PED 2014/68/EU), Type Approval (Module B + D), EN 12952 & EN 12953 |

## D-BS6-T Typical Installation



## TECHNICAL SPECIFICATION

### D-BK 5000-T Conductivity Controller



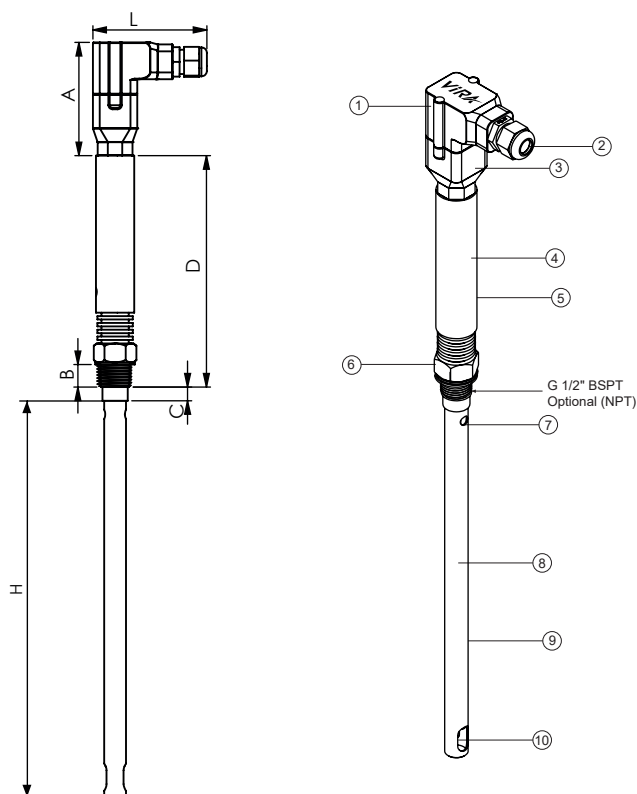
#### Technical Data

|                    |                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller         | D-BK 5000-T                                                                                                                                                                                                                                                                                                                          |
| Supply Voltage     | 24VDC                                                                                                                                                                                                                                                                                                                                |
| Functions          | Cond. Measurement & Cont. Blowdown Valve Control, Bottom Blowd. Valve Control, High TDS Alarm, Bottom Blowd. Valve Stuck Open Alarm, Bottom Blowd. Valve Stuck Closed, Adjustable Setpoints & Hysteresis, Touchscreen Display, Multi-Language Interface, Alarm Reset, Blowdown Timer, Adjustable Bottom Blowd. Interval and Duration |
| Inputs             | 1 Conductivity Input (via Probe), 1 Temperature Sensor Input (Pt100, via Probe), Limit Switch, Namur Solenoid Valve, Ground                                                                                                                                                                                                          |
| Outputs            | 1 TDS Blowdown Valve Control Relay, 1 Bottom Blowdown Valve Control Relay, 1 Common Alarm Relay, 4–20 mA Analog Conductivity Output, RS485 Modbus                                                                                                                                                                                    |
| Range              | 0-10.000 $\mu\text{S/cm}$ (default)                                                                                                                                                                                                                                                                                                  |
| Display & Control  | Touch Screen                                                                                                                                                                                                                                                                                                                         |
| Label              | Silicone Rubber                                                                                                                                                                                                                                                                                                                      |
| Max. Ambient Temp. | 55°C                                                                                                                                                                                                                                                                                                                                 |
| Enclosure          | PC (Polycarbonate)                                                                                                                                                                                                                                                                                                                   |
| Type               | Panel-mount and Din Rail                                                                                                                                                                                                                                                                                                             |
| Protection Class   | IP 40                                                                                                                                                                                                                                                                                                                                |

#### Dimensions

| H (mm) | H1 (mm) | L (mm) | L1 (mm) | C (mm) | D (mm) | B (mm) | G (mm) | A (mm) |
|--------|---------|--------|---------|--------|--------|--------|--------|--------|
| 134,6  | 156     | 72     | 130     | 64     | 148    | 136    | 136    | 130    |

### BD 5600-T Conductivity Probe



| No | Part                    | Material                                     |
|----|-------------------------|----------------------------------------------|
| 1  | Upper Connector Housing | GF-PP (Glass Fiber Reinforced Polypropylene) |
| 2  | Cable Gland             | PA6 (Polyamide)                              |
| 3  | Lower Connector Housing | GF-PP (Glass Fiber Reinforced Polypropylene) |
| 4  | Label                   | Laser Marking                                |
| 5  | Cover Tube              | Austenitic Stainless Steel 304               |
| 6  | Probe Body              | Austenitic Stainless Steel 316L              |
| 7  | Probe Tip Sleeve        | Politetrafluoroetilen (PTFE)                 |
| 8  | Probe Tip               | Austenitic Stainless Steel 316L              |
| 9  | Rod                     | Austenitic Stainless Steel 316L              |
| 10 | Sensor Tip              | Austenitic Stainless Steel 316Ti             |

#### Dimensions

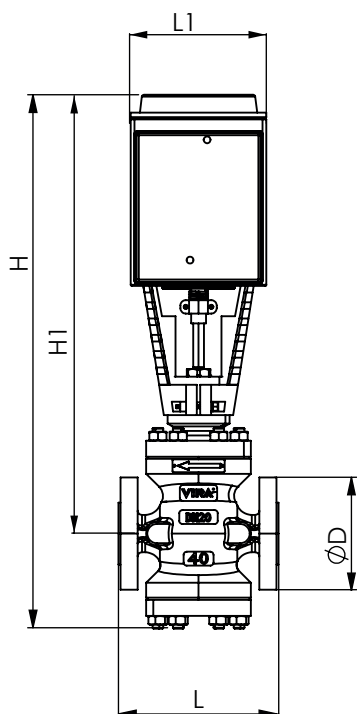
| H (mm) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |
|--------|--------|--------|--------|--------|--------|
| 500    | 83,5   | 83     | 16,5   | 10     | 169,5  |

**Note:** Standard probe length is 500 mm. Alternative lengths are available upon request.



## TECHNICAL SPECIFICATION

### BKV 5400 Blowdown Valves



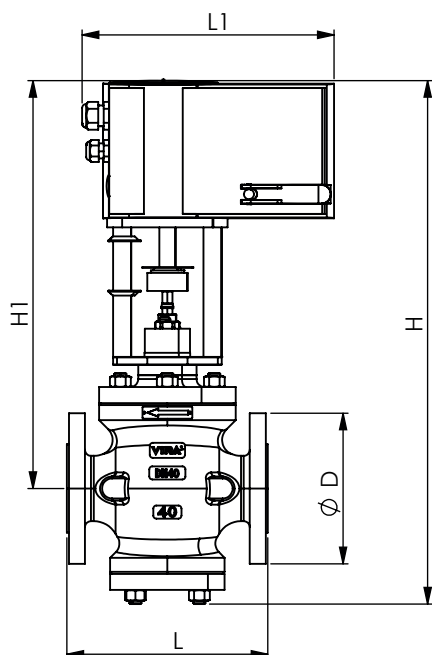
#### Technical Data

|                |                                   |
|----------------|-----------------------------------|
| Type           | BKV 5400-E                        |
| Body           | WCB                               |
| Pressure Class | PN 40                             |
| Operat. Temp.  | -10 - +230 °C                     |
| Sealing        | Metal to Metal                    |
| Actuator       | Electric                          |
| Control        | On-Off, Spring Return (Fail-Safe) |
| Connection     | Flanged                           |

#### Dimensions

| Type       | DN | D (mm) | H (mm) | H1 (mm) | L1 (mm) | L (mm) |
|------------|----|--------|--------|---------|---------|--------|
| BKV 5420-E | 20 | 105    | 483    | 394     | 127     | 150    |
| BKV 5425-E | 25 | 115    | 483    | 394     | 127     | 160    |

### BKV 5400 Blowdown Valves



#### Technical Data

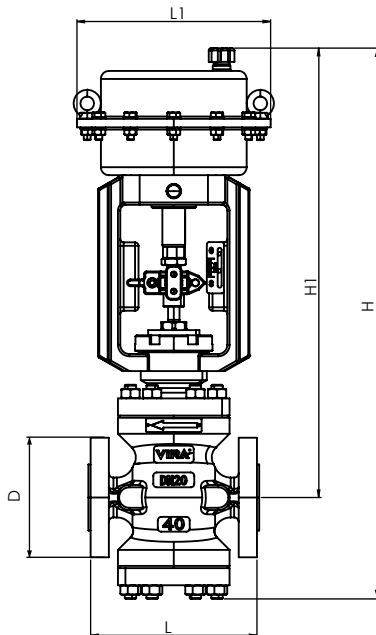
|                |                                   |
|----------------|-----------------------------------|
| Type           | BKV 5400-E                        |
| Body           | WCB                               |
| Pressure Class | PN 40                             |
| Operat. Temp.  | -10 - +230 °C                     |
| Sealing        | Metal to Metal                    |
| Actuator       | Electric                          |
| Control        | On-Off, Spring Return (Fail-Safe) |
| Connection     | Flanged                           |

#### Dimensions

| Type       | DN | D (mm) | H (mm) | H1 (mm) | L1 (mm) | L (mm) |
|------------|----|--------|--------|---------|---------|--------|
| BKV 5440-E | 40 | 150    | 521    | 406     | 223     | 196    |

## TECHNICAL SPECIFICATION

### BKV 5400 Blowdown Valves



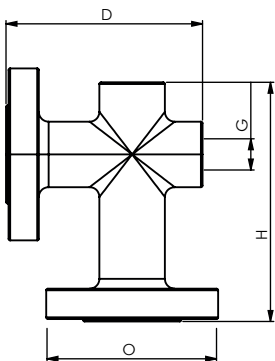
#### Technical Data

|                |                                              |
|----------------|----------------------------------------------|
| Type           | BKV 5400-P                                   |
| Body           | WCB                                          |
| Pressure Class | PN 40                                        |
| Operat. Temp.  | -10 - +230 °C                                |
| Sealing        | Metal to Metal                               |
| Actuator       | Pneumatic (Diaphragm)                        |
| Control        | On-Off, Spring Return (Fail-Safe)            |
| Accessories    | Switch Box, Namur Solenoid Valve, Air Filter |
| Connection     | Flanged                                      |

#### Dimensions

| Type       | DN | D (mm) | H (mm) | H1 (mm) | L1 (mm) | L (mm) |
|------------|----|--------|--------|---------|---------|--------|
| BKV 5420-P | 20 | 105    | 483,5  | 394,5   | 170     | 146    |
| BKV 5425-P | 25 | 115    | 483,5  | 394,5   | 170     | 156    |
| BKV 5440-P | 40 | 150    | 522    | 407     | 170     | 200    |

### DG 5400 Probe Housing



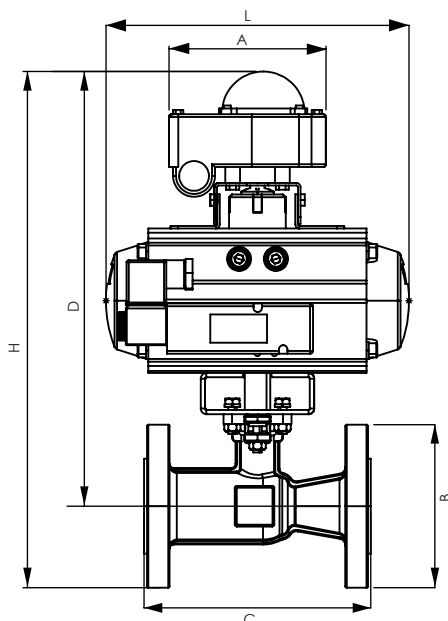
#### Technical Data

|                    |                                 |
|--------------------|---------------------------------|
| Type               | DG 5400                         |
| Body               | Nodular Cast Iron, Carbon Steel |
| Pressure Class     | PN 40                           |
| Process Connection | Flanged                         |
| Probe Connection   | Threaded                        |

#### Dimensions

| Type    | Size  | D (mm) | G (inch) | H (mm) | O (DN) |
|---------|-------|--------|----------|--------|--------|
| DG 5420 | DN 20 | 120    | 1/2"     | 146    | 105    |
| DG 5425 | DN 25 | 150    | 1/2"     | 150    | 115    |
| DG 5440 | DN 40 | 188    | 1/2"     | 188    | 150    |

### BKV 4000 Intermittent Blowdown Valve



#### Technical Data

|                |                                   |
|----------------|-----------------------------------|
| Valve          | BKV 4000                          |
| Size           | DN 25, 32, 40, 50                 |
| Actuator       | Pneumatic                         |
| Motor Type     | On-Off, Spring Return (Fail-Safe) |
| Pressure Class | PN 40                             |
| Body           | WCB                               |
| Supply         | 220VAC, 24VDC (please ask)        |
| Operat. Temp.  | -10 - +220 °C                     |
| Structure      | Reduced Bore                      |

#### Dimensions

| Type     | Size  | H (mm) | L (mm) | A (mm) | B (mm) | C (mm) | D (mm) |
|----------|-------|--------|--------|--------|--------|--------|--------|
| BKV 4025 | DN 25 | 364    | 214    | 111    | 115    | 160    | 307    |
| BKV 4032 | DN 32 | 390    | 251,5  | 111    | 140    | 180    | 320    |
| BKV 4040 | DN 40 | 395    | 251,5  | 111    | 150    | 200    | 320    |
| BKV 4050 | DN 50 | 431,3  | 270    | 111    | 165    | 230    | 349    |