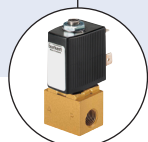


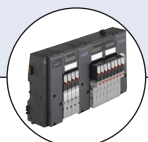
## Modular process valve cluster - distribution and collecting



Type 8840 can be combined with...



**Type 6012**  
Plunger valve



**Type 8647**  
AirLINE SP



**Type 8697**  
Pneumatic control  
unit



**Type 8691**  
Control head



**Type 8695**  
Control head



**Type 2000**  
Angle seat valve

Type 8840 comes with ready to install modules of tried and tested Bürkert process valves. The valve cluster, based on a modular valve body, allows different configurations. The individual parts are joined hermetically tight and in a very compact way. No installation effort for pipework, fittings or sealings is needed.

For the sizes DN20 (¾") and DN25 (1") orbital welding is used. The smaller variants in DN10 are threaded together using trusted graphite seals. To avoid dangerous water hammer, all valves have the flow direction below the seat. This is made possible by the two variants for the fluidic main function distribution and collecting, mixing or feed.

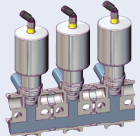
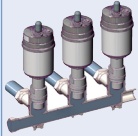
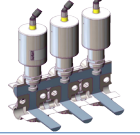
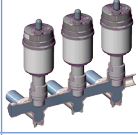
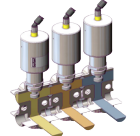
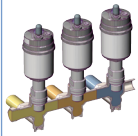
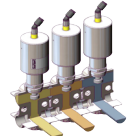
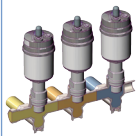
Depending on the requirement and preferred type of automation, it is possible to choose from different actuator variants. The robust CLASSIC actuators (in stainless steel or plastic) are controlled by a central valve island or by a pilot valve. The proven ELEMENT actuators allow a simple decentralized automation by using intelligent control heads. Furthermore it is possible to expand the system by using continuous control valves, sensors, customer specific pipework or further accessories.

| Technical data             |                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Orifice</b>             | DN10 - threaded<br>DN20, DN25 - welded                                                                    |
| <b>Line connections</b>    | Thread<br>Weld ends<br>Clamp                                                                              |
|                            | G ¾ to G 1, NPT ¾ to NPT 1<br>ISO 4200 (on request)<br>DIN 32676/Series B (on request)                    |
| <b>Body material</b>       | Stainless steel precision cover 316L (CF3M)                                                               |
| <b>Nominal pressure</b>    | PN25 (housing)                                                                                            |
| <b>Actuator material</b>   | INOX DN10<br>CLASSIC DN20, DN25<br>ELEMENT DN20, DN25                                                     |
|                            | Stainless steel (on request)<br>PA (PPS on request)<br>Actuator PPS, stainless steel cover 1.4561 (316Ti) |
| <b>Seal material</b>       | PTFE                                                                                                      |
| <b>Medium</b>              | Water, alcohols, oils, fuels, hydraulic fluid, saline solutions, alkalis, organic solvents, vapour        |
| <b>Viscosity</b>           | Max. 600 mm²/s                                                                                            |
| <b>Spindle packing</b>     | PTFE seal with spring compensation                                                                        |
| <b>Medium temperature</b>  | -10 to +180 °C                                                                                            |
| <b>Ambient temperature</b> | INOX DN10<br>CLASSIC DN20, DN25<br>ELEMENT DN20, DN25                                                     |
|                            | 0 to +60 °C<br>-10 to +60 °C (PA actuator)<br>+5 to +140 °C (PPS actuator)<br>0 to +60 °C                 |
| <b>Control media</b>       | Neutral gases, air                                                                                        |
| <b>Max. pilot pressure</b> | 10 bar                                                                                                    |
| <b>Pilot air port</b>      | INOX DN10<br>CLASSIC DN20, DN25<br>ELEMENT DN20, DN25                                                     |
|                            | Female elbow fitting (hose Ø⁴)<br>G ¼<br>Push-in 6/4                                                      |
| <b>Control function</b>    | CFA (closed by spring force)<br>CFB (opened by spring force) on request                                   |

## Technical data, continued

|                                                                   |                                                                                                                        |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Number of valves</b><br>DN10 (threaded)<br>DN20, DN25 (welded) | 2...9 (clusters with larger number of valves on request )<br>2...5 (clusters with larger number of valves on request ) |
| <b>Approvals, conformities</b><br>on request                      | ATEX<br>FDA<br>EC Regulation 1935/2004<br>SIL                                                                          |

## Further technical data

| Function                                                                          | Description of application                                                                               | DN10 representation                                                                 | DN15, DN20, DN25 representation                                                       |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | Distributing:<br>Originating from an inlet, the valve block distributes the medium to several consumers. |    |    |
|  | Collecting:<br>Originating from several consumers, the medium can be collected.                          |    |    |
|                                                                                   | Mixing:<br>Various medium, e.g. hot and cold water or a range of chemicals, can be mixed.                |   |   |
|                                                                                   | Feeding:<br>Various medium, e.g. a range of cleaning media, can be supplied to a consumer alternately.   |  |  |

**Attention!**

For liquid medium, the valve flow direction should always be below seat, otherwise there is a risk of waterhammer!

| Actuator version                                                                    | Orifice [mm] | Actuator size [mm] | K <sub>v</sub> value water [m³/h] <sup>1)</sup> | Minimum pilot pressure CFA [bar] | Max. operating pressure up to 180 °C |           |
|-------------------------------------------------------------------------------------|--------------|--------------------|-------------------------------------------------|----------------------------------|--------------------------------------|-----------|
|                                                                                     |              |                    |                                                 |                                  | CFA [bar]                            | CFB [bar] |
|  | 10           | 32                 | 2.1                                             | 5.5                              | 16                                   | 16        |
|  | 20           | 50                 | 6.8                                             | 3.9                              | 11                                   | 16        |
|                                                                                     | 25           | 63                 | 11.5                                            | 4.2                              | 11                                   | 16        |
|  | 20           | 50                 | 6.8                                             | 5.2                              | 16                                   | 16        |
|                                                                                     | 25           | 70                 | 12.1                                            | 5.0                              | 16                                   | 16        |

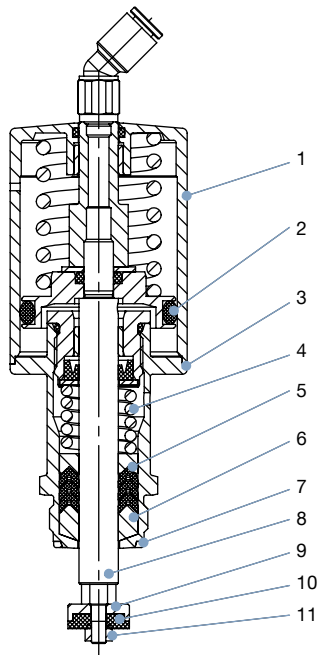
<sup>1)</sup> Max. K<sub>v</sub> value of a valve slot. The value may drop when several valve slots are actuated simultaneously.

**Flow:** K<sub>v</sub> value water (m³/h): Measurement at +20 °C, 1 bar at the valve inlet and free outlet

**Pressure data (bar):** Overpressure with respect to atmospheric pressure

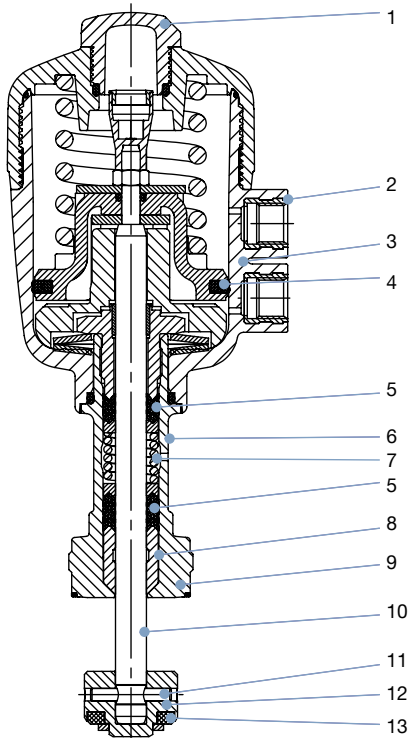
## Material data

INOX actuator DN10



|    |                  |                        |
|----|------------------|------------------------|
| 1  | Actuator         | Stainless steel 1.4404 |
| 2  | Piston seal      | FPM                    |
| 3  | Pipe             | Stainless steel 1.4404 |
| 4  | Spring           | 1.4310                 |
| 5  | Spindle seal     | PTFE                   |
| 6  | Wiper            | PTFE                   |
| 7  | Seal             | Graphite               |
| 8  | Spindle          | Stainless steel 1.4404 |
| 9  | Seal retainer    | Stainless steel 1.4404 |
| 10 | Seal             | PTFE                   |
| 11 | Centre alignment | Stainless steel 1.4404 |

CLASSIC actuator DN20, DN25



|    |                      |                                                             |
|----|----------------------|-------------------------------------------------------------|
| 1  | Transparent cap      | PC (PSU for PPS actuator)                                   |
| 2  | Pilot air ports      | Stainless steel 1.4305                                      |
| 3  | Actuator             | PA (PPS on request)                                         |
| 4  | Piston seal          | NBR (FKM for PPS actuator)                                  |
| 5  | Spindle seal         | PTFE (FKM on request)                                       |
| 6  | Pipe <sup>1)</sup>   | Stainless steel 1.4401 / Stainless steel 316L <sup>2)</sup> |
| 7  | Spring               | Stainless steel 1.4310                                      |
| 8  | Wiper                | PTFE                                                        |
| 9  | Nipple <sup>2)</sup> | Stainless steel 1.4401 / Stainless steel 316L <sup>2)</sup> |
| 10 | Spindle              | Stainless steel 1.4401                                      |
| 11 | Pin                  | Stainless steel 1.4401                                      |
| 12 | Swivel plate         | Stainless steel 1.4401                                      |
| 13 | Seal                 | PTFE (NBR, FKM, EPDM on request)                            |

<sup>1)</sup> One-piece for actuator size 63 mm to 125 mm

<sup>2)</sup> For actuator size 63 mm

Material data, continued

## ELEMENT actuator DN20, DN25

|    |                            |                                                                                         |
|----|----------------------------|-----------------------------------------------------------------------------------------|
| 1  | Ground terminal            | Stainless steel 1.4301/1.4305 only for ATEX version                                     |
| 2  | Optical position indicator | Transparent cap polysulphone PSU                                                        |
| 3  | Pilot air ports            | Plug-in hose connector PP (standard)<br>On request: Thread G 1/8 stainless steel 1.4305 |
| 4  | Actuator                   | PPS                                                                                     |
| 5  | Cover                      | Stainless steel 1.4561 (316Ti)                                                          |
| 6  | Piston seal                | FKM                                                                                     |
| 7  | Spring                     | Stainless steel 1.4310                                                                  |
| 8  | Pipe                       | Stainless steel 1.4401 (316)/1.4404 (316L)                                              |
| 9  | Spindle seal               | PTFE                                                                                    |
| 10 | Spindle                    | Stainless steel 1.4401 (316)/1.4404 (316L)                                              |
| 11 | Spindle guide              | PEEK                                                                                    |
| 12 | Swivel plate               | Stainless steel 1.4401 (316)/1.4404 (316L)                                              |
| 13 | Seal                       | PTFE                                                                                    |

## Ordering chart (further versions on request)

## Modular process valve cluster distributor – G threaded connection

| Actuator version                                                                  | Orifice [mm] | Actuator size [mm] | Threaded connection | Minimum pilot pressure [bar] | Operating pressure up to 180 °C [bar] | Number of valves | Article no.                                                                                |
|-----------------------------------------------------------------------------------|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|--------------------------------------------------------------------------------------------|
|  | 20           | 50                 | G ¾                 | 3.9                          | 11                                    | 2                | 283906  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283908  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283909  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283910  |
|                                                                                   | 25           | 63                 | G 1                 | 4.2                          | 11                                    | 2                | 283941  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283942  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283943  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283944  |
|  | 20           | 50                 | G ¾                 | 5.2                          | 16                                    | 2                | 283911  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283912  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283913  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283914  |
|                                                                                   | 25           | 70                 | G 1                 | 5.0                          | 16                                    | 2                | 283945  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283946  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283947  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283948  |

## Modular process valve cluster distributor – NPT threaded connection

| Actuator version                                                                    | Orifice [mm] | Actuator size [mm] | Threaded connection | Minimum pilot pressure [bar] | Operating pressure up to 180 °C [bar] | Number of valves | Article no.                                                                                  |
|-------------------------------------------------------------------------------------|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|----------------------------------------------------------------------------------------------|
|  | 20           | 50                 | NPT ¾               | 3.9                          | 11                                    | 2                | 283915  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283916  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283917  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283918  |
|                                                                                     | 25           | 63                 | NPT 1               | 4.2                          | 11                                    | 2                | 283949  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283950  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283951  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283952  |
|  | 20           | 50                 | NPT ¾               | 5.2                          | 16                                    | 2                | 283919  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283920  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283922  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283923  |
|                                                                                     | 25           | 70                 | NPT 1               | 5.0                          | 16                                    | 2                | 283953  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283954  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283955  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283956  |



## Further versions on request



## Orifice

DN10 threaded, DN15 welded



## Material

Seal between body and actuator PTFE (FDA compliant version)



## Line connection

Weld end acc. to ISO 4200, clamp acc. to DIN 32676/Series B

## Ordering chart (further versions on request)

## Modular process valve cluster collector – G threaded connection

| Actuator version                                                                  | Orifice [mm] | Actuator size [mm] | Threaded connection | Minimum pilot pressure [bar] | Operating pressure up to 180 °C [bar] | Number of valves | Article no.                                                                                |
|-----------------------------------------------------------------------------------|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|--------------------------------------------------------------------------------------------|
|  | 20           | 50                 | G ¾                 | 3.9                          | 11                                    | 2                | 283924  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283925  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283926  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283927  |
|                                                                                   | 25           | 63                 | G 1                 | 4.2                          | 11                                    | 2                | 283958  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283960  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283961  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283962  |
|  | 20           | 50                 | G ¾                 | 5.2                          | 16                                    | 2                | 283928  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283929  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283930  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283931  |
|                                                                                   | 25           | 70                 | G 1                 | 5.0                          | 16                                    | 2                | 283963  |
|                                                                                   |              |                    |                     |                              |                                       | 3                | 283964  |
|                                                                                   |              |                    |                     |                              |                                       | 4                | 283965  |
|                                                                                   |              |                    |                     |                              |                                       | 5                | 283966  |

## Modular process valve cluster collector – NPT threaded connection

| Actuator version                                                                    | Orifice [mm] | Actuator size [mm] | Threaded connection | Minimum pilot pressure [bar] | Operating pressure up to 180 °C [bar] | Number of valves | Article no.                                                                                  |
|-------------------------------------------------------------------------------------|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|----------------------------------------------------------------------------------------------|
|  | 20           | 50                 | NPT ¾               | 3.9                          | 11                                    | 2                | 283932  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283933  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283934  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283935  |
|                                                                                     | 25           | 63                 | NPT 1               | 4.2                          | 11                                    | 2                | 283968  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283969  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283971  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283972  |
|  | 20           | 50                 | NPT ¾               | 5.2                          | 16                                    | 2                | 283936  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283937  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283938  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283939  |
|                                                                                     | 25           | 70                 | NPT 1               | 5.0                          | 16                                    | 2                | 283973  |
|                                                                                     |              |                    |                     |                              |                                       | 3                | 283974  |
|                                                                                     |              |                    |                     |                              |                                       | 4                | 283975  |
|                                                                                     |              |                    |                     |                              |                                       | 5                | 283976  |



## Further versions on request



## Orifice

DN10 threaded, DN15 welded



## Material

Seal between body and actuator PTFE (FDA compliant version)



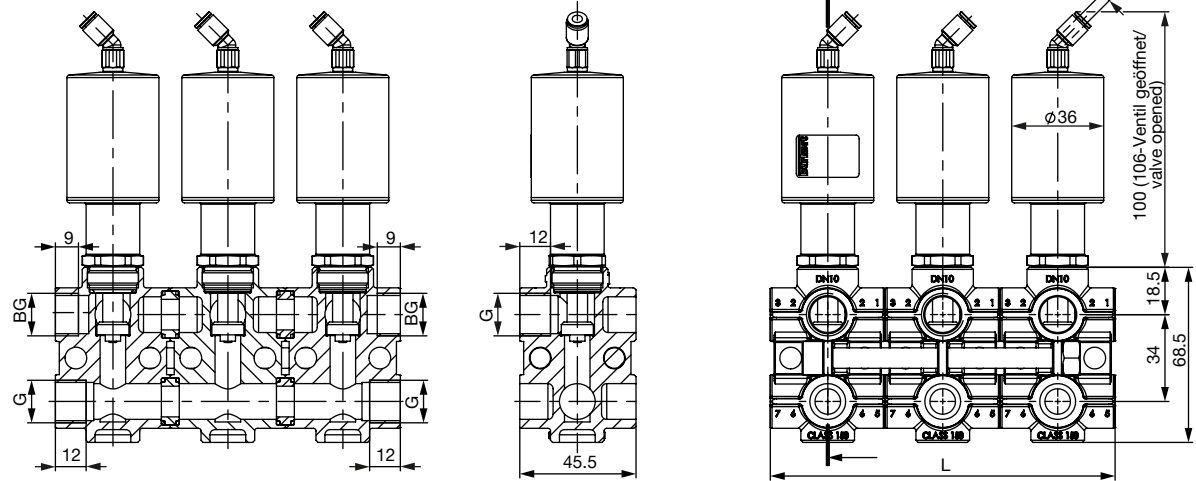
## Line connection

Weld end acc. to ISO 4200, clamp acc. to DIN 32676/Series B

## Dimensions [mm]

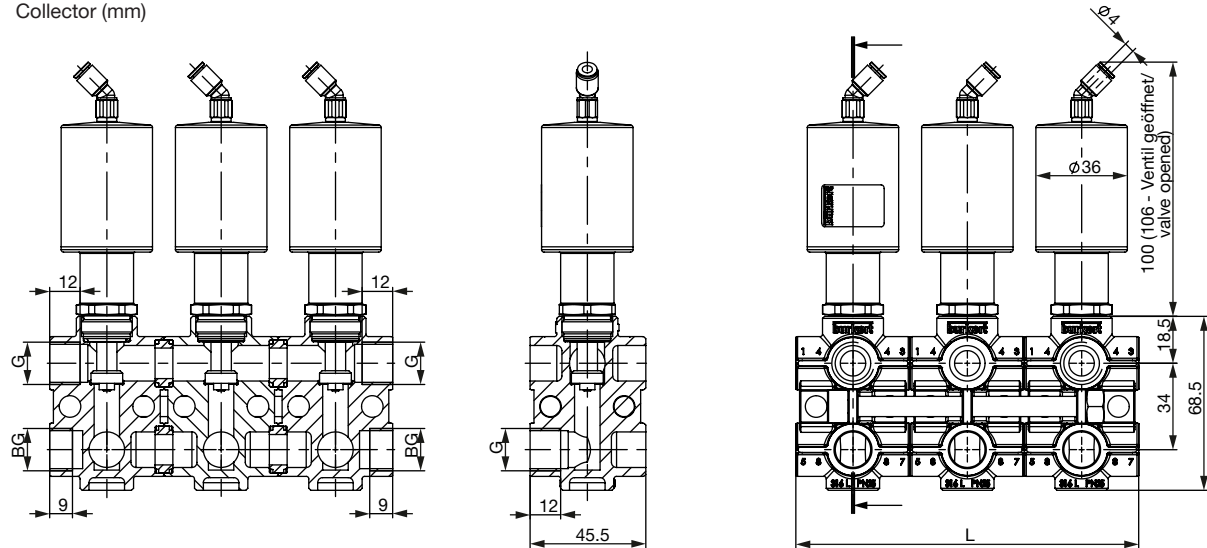
## Type 8840 INOX DN10

Distributor (mm)



## Type 8840 INOX DN10

Collector (mm)

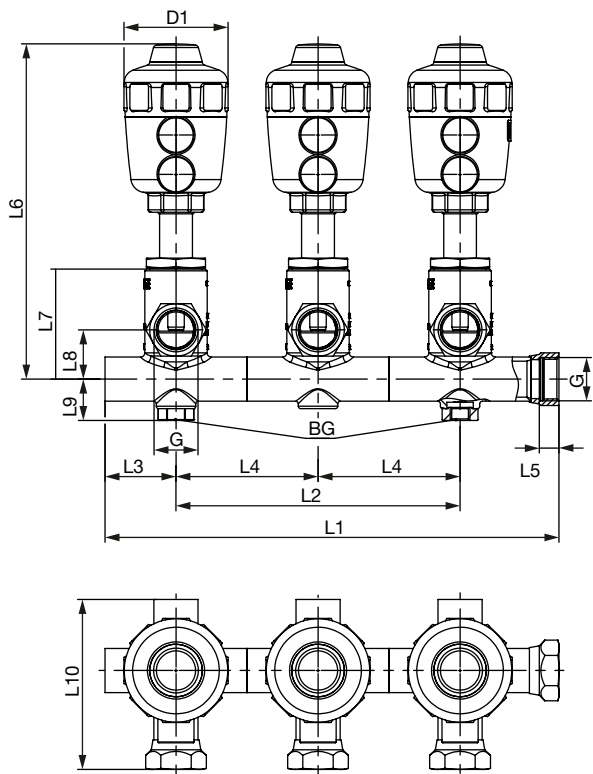


| DN [mm] | Actuator size [mm] | Thread G             | Thread BG <sup>1)</sup> | Number of valves | L [mm] |
|---------|--------------------|----------------------|-------------------------|------------------|--------|
| 10      | 32                 | G 3/8 or NPT 3/8     | G 3/8 or NPT 3/8        | 2                | 90     |
| 10      | 32                 | G 1/2 or NPT 1/2     | G 1/2 or NPT 1/2        | 3                | 135    |
| 10      | 32                 | G 3/4 or NPT 3/4     | G 3/4 or NPT 3/4        | 4                | 180    |
| 10      | 32                 | G 1 or NPT 1         | G 1 or NPT 1            | 5                | 225    |
| 10      | 32                 | G 1 1/4 or NPT 1 1/4 | G 1 1/4 or NPT 1 1/4    | 6                | 270    |
| 10      | 32                 | G 1 1/2 or NPT 1 1/2 | G 1 1/2 or NPT 1 1/2    | 7                | 315    |
| 10      | 32                 | G 2 or NPT 2         | G 2 or NPT 2            | 8                | 360    |
| 10      | 32                 | G 2 1/2 or NPT 2 1/2 | G 2 1/2 or NPT 2 1/2    | 9                | 405    |

<sup>1)</sup>Threads can only be used to attach the valve block, e.g. to a mounting plate or a frame.

Dimensions [mm] continued

Type 8840 CLASSIC DN20, DN25  
Distributor (mm)

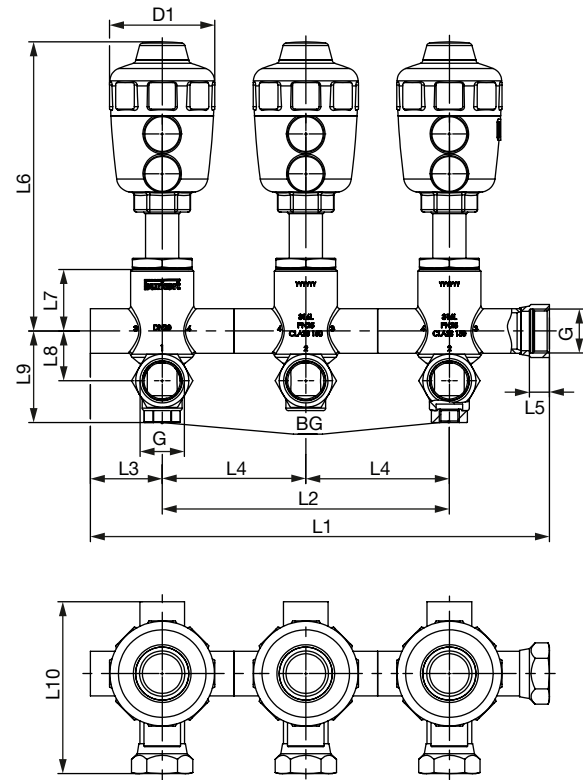


| DN [mm] | Actuator size [mm] | Thread G     | Thread BG <sup>1)</sup> | Number of valves | L1  | L2    | L3   | L4   | L5 | L6  | L7 | L8 | L9 | L10 | D1 |
|---------|--------------------|--------------|-------------------------|------------------|-----|-------|------|------|----|-----|----|----|----|-----|----|
| 20      | 50                 | G ¾ or NPT ¾ | M12 / 8 depth           | 2                | 190 | 86.5  | 43.3 | 86.5 | 12 | 205 | 67 | 30 | 25 | 104 | 63 |
|         |                    |              |                         | 3                | 277 | 173   |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 4                | 363 | 259.5 |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 5                | 450 | 346   |      |      |    |     |    |    |    |     |    |
| 25      | 63                 | G 1 or NPT 1 | M16 / 13 depth          | 2                | 228 | 104   | 52   | 104  | 14 | 253 | 83 | 41 | 32 | 124 | 80 |
|         |                    |              |                         | 3                | 332 | 208   |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 4                | 436 | 312   |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 5                | 540 | 416   |      |      |    |     |    |    |    |     |    |

<sup>1)</sup> Threads can only be used to attach the valve block, e.g. to a mounting plate or a frame.

Dimensions [mm] continued

Type 8840 CLASSIC DN20, DN25  
Collector (mm)



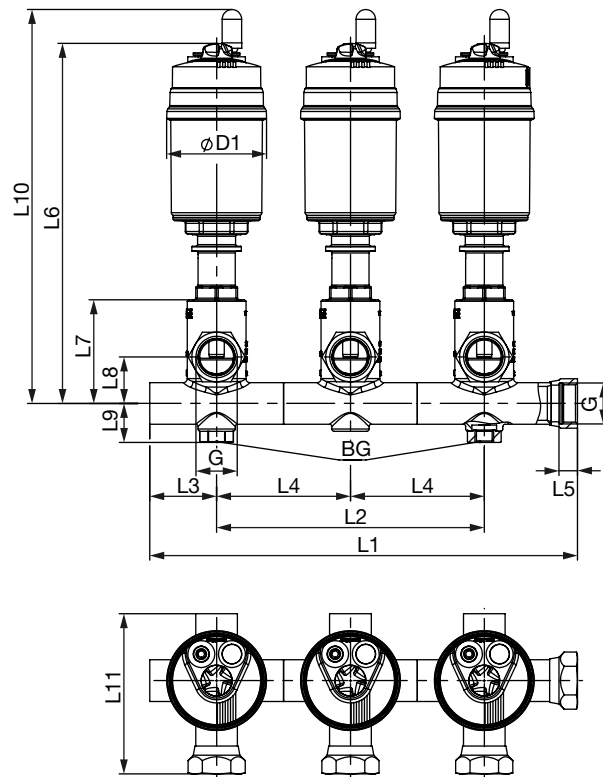
| DN [mm] | Actuator size [mm] | Thread G     | Thread BG <sup>1)</sup> | Number of valves | L1  | L2    | L3   | L4   | L5 | L6  | L7 | L8 | L9 | L10 | D1 |
|---------|--------------------|--------------|-------------------------|------------------|-----|-------|------|------|----|-----|----|----|----|-----|----|
| 20      | 50                 | G ¾ or NPT ¾ | M12 / 8 depth           | 2                | 190 | 86.5  | 43.3 | 86.5 | 12 | 175 | 37 | 30 | 55 | 104 | 63 |
|         |                    |              |                         | 3                | 277 | 173   |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 4                | 363 | 259.5 |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 5                | 450 | 346   |      |      |    |     |    |    |    |     |    |
| 25      | 63                 | G 1 or NPT 1 | M16 / 13 depth          | 2                | 228 | 104   | 52   | 104  | 14 | 212 | 42 | 41 | 73 | 124 | 80 |
|         |                    |              |                         | 3                | 332 | 208   |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 4                | 436 | 312   |      |      |    |     |    |    |    |     |    |
|         |                    |              |                         | 5                | 540 | 416   |      |      |    |     |    |    |    |     |    |

<sup>1)</sup> Threads can only be used to attach the valve block, e.g. to a mounting plate or a frame.

## Dimensions [mm] continued

## Type 8840 ELEMENT DN20, DN25

Distributor (mm)



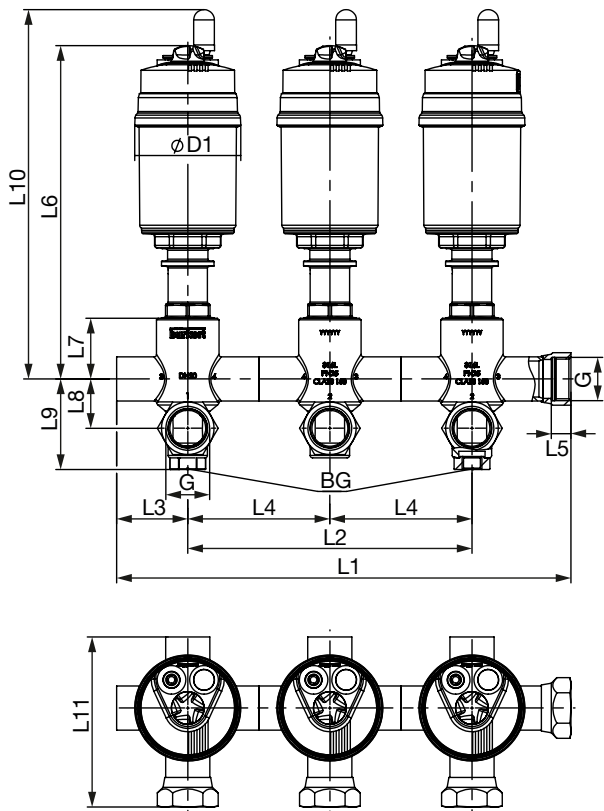
| DN [mm] | Actuator size [mm] | Thread G     | Thread BG <sup>1)</sup> | Number of valves | L1  | L2    | L3   | L4   | L5 | L6  | L7 | L8 | L9 | L10 | L11 | D1 |
|---------|--------------------|--------------|-------------------------|------------------|-----|-------|------|------|----|-----|----|----|----|-----|-----|----|
| 20      | 50                 | G ¾ or NPT ¾ | M12 / 8 depth           | 2                | 190 | 86.5  | 43.3 | 86.5 | 12 | 233 | 67 | 30 | 25 | 255 | 104 | 65 |
|         |                    |              |                         | 3                | 277 | 173   |      |      |    |     |    |    |    |     |     |    |
|         |                    |              |                         | 4                | 363 | 259.5 |      |      |    |     |    |    |    |     |     |    |
|         |                    |              |                         | 5                | 450 | 346   |      |      |    |     |    |    |    |     |     |    |
| 25      | 63                 | G 1 or NPT 1 | M16 / 13 depth          | 2                | 228 | 104   | 52   | 104  | 14 | 261 | 83 | 41 | 32 | 281 | 124 | 91 |
|         |                    |              |                         | 3                | 332 | 208   |      |      |    |     |    |    |    |     |     |    |
|         |                    |              |                         | 4                | 436 | 312   |      |      |    |     |    |    |    |     |     |    |
|         |                    |              |                         | 5                | 540 | 416   |      |      |    |     |    |    |    |     |     |    |

<sup>1)</sup> Threads can only be used to attach the valve block, e.g. to a mounting plate or a frame.

Dimensions [mm] continued

Type 8840 ELEMENT DN20, DN25

Collector (mm)



| DN<br>[mm] | Actuator<br>size [mm] | Thread G     | Thread BG <sup>1)</sup> | Number of<br>valves | L1  | L2    | L3   | L4   | L5 | L6  | L7 | L8 | L9 | L10 | L11 | D1 |
|------------|-----------------------|--------------|-------------------------|---------------------|-----|-------|------|------|----|-----|----|----|----|-----|-----|----|
| 20         | 50                    | G ¾ or NPT ¾ | M12 / 8 depth           | 2                   | 190 | 86.5  | 43.3 | 86.5 | 12 | 203 | 37 | 30 | 55 | 225 | 104 | 65 |
|            |                       |              |                         | 3                   | 277 | 173   |      |      |    |     |    |    |    |     |     |    |
|            |                       |              |                         | 4                   | 363 | 259.5 |      |      |    |     |    |    |    |     |     |    |
|            |                       |              |                         | 5                   | 450 | 346   |      |      |    |     |    |    |    |     |     |    |
| 25         | 63                    | G 1 or NPT 1 | M16 / 13 depth          | 2                   | 228 | 104   | 52   | 104  | 14 | 220 | 42 | 41 | 73 | 240 | 124 | 91 |
|            |                       |              |                         | 3                   | 332 | 208   |      |      |    |     |    |    |    |     |     |    |
|            |                       |              |                         | 4                   | 436 | 312   |      |      |    |     |    |    |    |     |     |    |
|            |                       |              |                         | 5                   | 540 | 416   |      |      |    |     |    |    |    |     |     |    |

<sup>1)</sup> Threads can only be used to attach the valve block, e.g. to a mounting plate or a frame.

Specification key

Example

|      |    |      |   |   |   |
|------|----|------|---|---|---|
| 8840 | 20 | SA43 | G | 3 | S |
|------|----|------|---|---|---|

Specification key

Please make a selection

|      |  |  |  |  |  |
|------|--|--|--|--|--|
| 8840 |  |  |  |  |  |
|------|--|--|--|--|--|

| Orifice DN (mm) |
|-----------------|
| 10              |
| 15              |
| 20              |
| 25              |

| Function |             |
|----------|-------------|
| S        | Collector   |
| V        | Distributor |

| Port connection |                                                            |
|-----------------|------------------------------------------------------------|
| GM83            | G ¾ threaded connection (for orifice DN10)                 |
| NM83            | NPT ¾ threaded connection (for orifice DN10)               |
| GM84            | G ½ threaded connection (for orifice DN15)                 |
| NM84            | NPT ½ threaded connection (for orifice DN15)               |
| SA42            | Welded connection Ø 21.3 × 1.6 (for orifice DN15)          |
| TC42            | Clamped connection Ø 21.3 × 1.6 Cl:34 (for orifice DN15)   |
| GM85            | G ¾ threaded connection (for orifice DN20)                 |
| NM85            | NPT ¾ threaded connection (for orifice DN20)               |
| SA43            | Welded connection Ø 26.9 × 1.6 (for orifice DN20)          |
| TC43            | Clamped connection Ø 26.9 × 1.6 Cl:50.5 (for orifice DN20) |
| GM86            | G 1 threaded connection (for orifice DN25)                 |
| NM86            | NPT 1 threaded connection (for orifice DN25)               |
| SA44            | Welded connection Ø 33.7 × 2 (for orifice DN25)            |
| TC44            | Clamped connection Ø 33.7 × 2 Cl:50.5 (for orifice DN25)   |

| Actuator version |                                            |
|------------------|--------------------------------------------|
| H                | INOX (for orifice DN10, DN15)              |
| C                | CLASSIC PA (for orifice DN15, DN20, DN25)  |
| D                | CLASSIC PPS (for orifice DN15, DN20, DN25) |
| G                | ELEMENT (for orifice DN15, DN20, DN25)     |

| Number of valves |
|------------------|
| 2                |
| 3                |
| 4                |
| 5                |
| 6                |
| 7                |
| 8                |
| 9                |

## Standard configuration - request for quotation

Please complete and return with your request or order to your nearest Bürkert facility

|                     |            |
|---------------------|------------|
| Company             | Contact    |
| Customer no.        | Department |
| Street              | Tel./Fax   |
| Postcode, town/city | Email      |

☐ = mandatory fields

Quantity

Required delivery date

### Operating data

|                                          |                                 |                                 |                              |                      |
|------------------------------------------|---------------------------------|---------------------------------|------------------------------|----------------------|
| Pipeline                                 | DN                              | <input type="text"/>            | PN                           | <input type="text"/> |
| Pipe material                            | <input type="text"/>            |                                 |                              |                      |
| <input type="checkbox"/> Process medium  | <input type="text"/>            |                                 |                              |                      |
| <input type="checkbox"/> State of medium | <input type="checkbox"/> Liquid | <input type="checkbox"/> Vapour | <input type="checkbox"/> Gas |                      |

### Valve data

|                         |                                 |                                    |
|-------------------------|---------------------------------|------------------------------------|
| Nominal pressure        | PN                              | <input type="text"/>               |
| Orifice                 | DN                              | <input type="text"/>               |
| Connection              | <input type="checkbox"/> Thread | <input type="checkbox"/> Weld ends |
| Actuator version        | <input type="checkbox"/> INOX   | <input type="checkbox"/> CLASSIC   |
| Pilot pressure          | <input type="text"/> min.       | <input type="text"/> max.          |
| ATEX II 2GD mechanical  | <input type="checkbox"/>        | <input type="checkbox"/> Clamp     |
| FDA                     | <input type="checkbox"/>        | <input type="checkbox"/> ELEMENT   |
| EC Regulation 1935/2004 | <input type="checkbox"/>        |                                    |
| Article no. (if known): | <input type="text"/>            |                                    |

### Specification key

(automatically transferred from page 12)

8840

### Accessories

Please click the "More info" box ... You will be redirected to our web page for this product where you can download the respective data sheet.

#### CLASSIC



#### Control head / Position feedback



More info.

☐ Type 8697

For actuator sizes Ø 40, 50 and 63 mm

Article no. (if known):

#### ELEMENT



#### Control head / Position feedback



More info.

☐ Type 8691

For actuator size Ø 70 mm



More info.

☐ Type 8695

For actuator size Ø 50 mm

Article no. (if known):

#### Pneumatic control / Position feedback



More info.

☐ Type 8690

For actuator size Ø 70 mm



More info.

☐ Type 8697

For actuator size Ø 50 mm

Article no. (if known):

## Modular platform for process control and regulation

### Combination options based on Type 8840 (individual customer solutions available on request)

Type 8840 enables Bürkert to provide quickly and efficiently all common valve assemblies pre-configured for distributing and collecting functions (for other possible variations, see illustrations on pages 7 - 11).

Furthermore, individual customer solutions are available on request.

Thanks to the modular platform for process control and regulation, various application-specific requirements can be met. The modular platform for process control and regulations also enables every combination option when selecting the actuator, control and measuring principle and the fluid functions:

|                                |                                  |
|--------------------------------|----------------------------------|
| Actuator variations:           | Electromotive, pneumatic, manual |
| Control, regulation principle: | On/Off, continuous               |
| Sensor variations:             | Temperature, pressure, flow      |

Irrespective of whether the system is to be actuated by an electric motor, pneumatically or manually, Bürkert offers the ideal actuator and control/regulation principle for every requirement. Moreover, the ideal measuring principle can be selected from the extensive sensor range for measuring temperature, pressure and flow rate. They guarantee reliable measurement values and can be easily integrated into the system.

Besides the standard distributing and collecting functions, specified fluid combinations can be achieved.

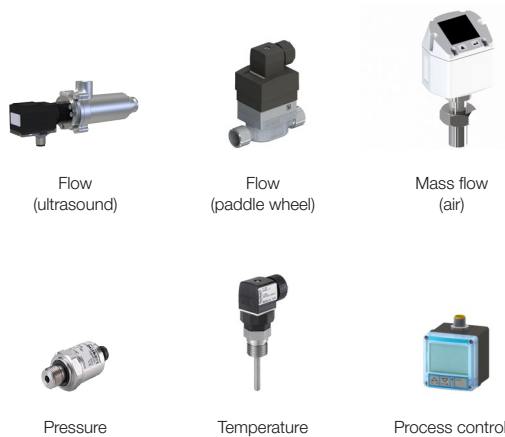
#### ACTUATOR VARIATIONS



#### HOUSING VARIATIONS



#### SENSOR VARIATIONS



## Modular platform for process control and regulation

(individual customer solutions available on request)

### ACTUATOR VARIATIONS



Pneumatic  
INOX



Manual

### HOUSING



### SENSOR VARIATIONS



Pressure



Flow  
(paddle wheel)



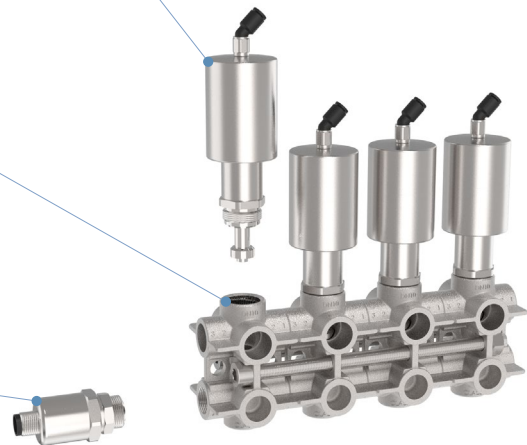
Flow  
(ultrasound)



Temperature



Temperature



## Modular platform for process control and regulation – examples

| Valve system                                                                       | Description of application                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p><b>Distributing gas in the pharmaceutical and food industry</b><br/>Controlling and regulating process gas (e.g. CO<sub>2</sub> and N<sub>2</sub>) for:</p> <ul style="list-style-type: none"> <li>• Pneumatic conveying</li> <li>• Inertisation</li> <li>• Preservation</li> <li>• Flushing</li> <li>• ...</li> </ul>                                   |
|   | <p><b>Cleaning processes in the pharmaceutical and food industry</b><br/>Distributing cleaning media and water for:</p> <ul style="list-style-type: none"> <li>• Keg cleaning</li> <li>• Filling and packaging machines</li> <li>• Grinding and crushing systems</li> <li>• Container cleaning</li> <li>• ...</li> </ul>                                    |
|  | <p><b>Controlling the temperature of industrial processes</b><br/>Controlling and regulating temperature control processes for:</p> <ul style="list-style-type: none"> <li>• Injection moulding machines</li> <li>• Pressure die casting machines</li> <li>• Temperature control devices</li> <li>• Tools for carbon fibre reinforced components</li> </ul> |

## Customised configuration - request for quotation

▶ Please complete and return with your request or order to your nearest Bürkert facility

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|---------------------|------------|
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| Customer no.        | Department |
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| Postcode, town/city | Email      |

## Commercial data

Project name

Quantity

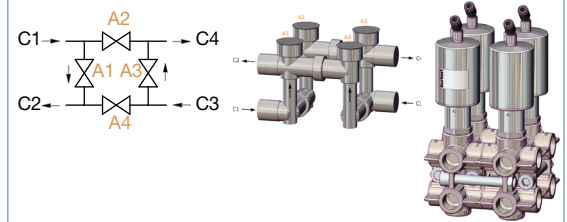

☐ One-off request

☐ Multiple request

## Flow diagram

Please provide a schematic sketch

## Legend (example sketch)



Seat valve

Medium flow direction

C1, C2, ... Connections - system/block

A1, A2, ... Actuators (valves on block)



C1 ... Cn

A1 ... An

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In case of special application conditions,  
please consult for advice.

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