

## 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.











- Valve cluster ready for installation
- Compact design without any potential leakage
- No assembly effort
- No piping between the valves needed
- Trusted actuators for simple automation

| Technical data             |  |
|----------------------------|--|
| <b>Orifice</b>             | DN10 - threaded<br>DN20, DN25 - welded   |
| <b>Line connections</b>    | Thread<br>Weld ends<br>Clamp   |
| <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  |
| <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 mm <sup>2</sup> /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  |
| <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  |
| <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 [m <sup>3</sup> /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        |

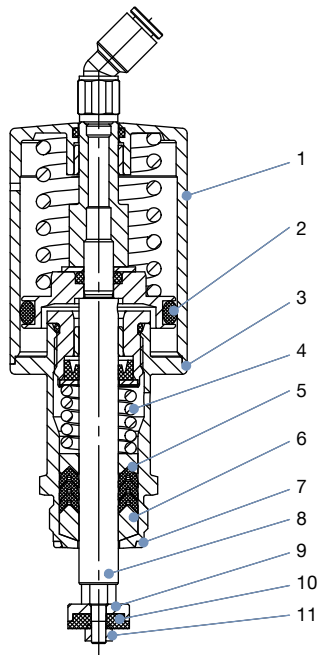
<sup>1)</sup> Max. K<sub>v</sub> value of a valve slot. The value may drop when several valve slots are actuated simultaneously.

**Flow:** K<sub>v</sub> value water (m<sup>3</sup>/h): Measurement at +20 °C, 1 bar at the valve inlet and free outlet

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

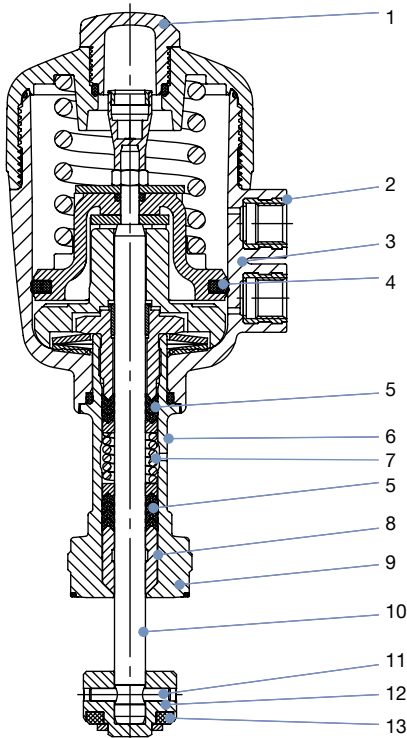
## Material data

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



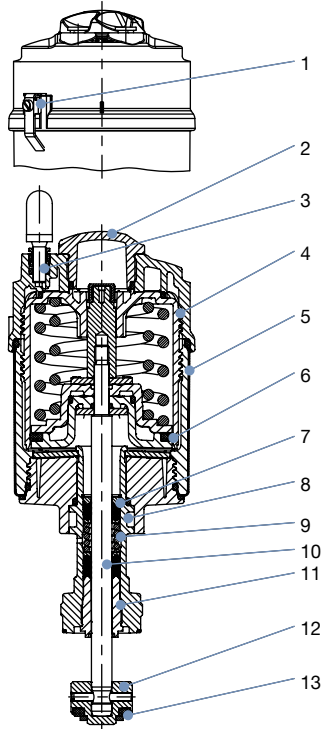
|    |                      |   |
|----|----------------------|---|
| 1  | Transparent cap      | PC (PSU for PPS actuator)                                   |
| 2  | Pilot air ports      | Stainless steel 1.4305                                      |
| 3  | Actuator             | PA (PPS on request)   |
| 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


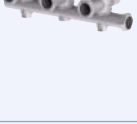

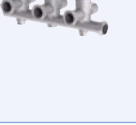
ELEMENT actuator DN20, DN25






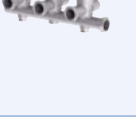
|    |                            |   |
|----|----------------------------|---|
| 1  | Ground terminal            | Stainless steel 1.4301/1.4305 only for ATEX version                                     |
| 2  | Optical position indicator | Transparent cap polysulphone PSU  |
| 3  | Pilot air ports            | 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 | Item no. |
|---|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|----------|
|  | 20           | 50                 | G 3/4               | 3.9                          | 11                                    | 2                | 283 906  |
|   |              |                    |                     |                              |                                       | 3                | 283 908  |
|   |              |                    |                     |                              |                                       | 4                | 283 909  |
|   |              |                    |                     |                              |                                       | 5                | 283 910  |
|   |              |                    |                     |                              |                                       | 5                | 283 910  |
|  | 25           | 63                 | G 1                 | 4.2                          | 11                                    | 2                | 283 941  |
|   |              |                    |                     |                              |                                       | 3                | 283 942  |
|   |              |                    |                     |                              |                                       | 4                | 283 943  |
|   |              |                    |                     |                              |                                       | 5                | 283 944  |
|   |              |                    |                     |                              |                                       | 5                | 283 944  |
|  | 20           | 50                 | G 3/4               | 5.2                          | 16                                    | 2                | 283 911  |
|   |              |                    |                     |                              |                                       | 3                | 283 912  |
|   |              |                    |                     |                              |                                       | 4                | 283 913  |
|   |              |                    |                     |                              |                                       | 5                | 283 914  |
|   |              |                    |                     |                              |                                       | 5                | 283 914  |
|  | 25           | 70                 | G 1                 | 5.0                          | 16                                    | 2                | 283 945  |
|   |              |                    |                     |                              |                                       | 3                | 283 946  |
|   |              |                    |                     |                              |                                       | 4                | 283 947  |
|   |              |                    |                     |                              |                                       | 5                | 283 948  |
|   |              |                    |                     |                              |                                       | 5                | 283 948  |

## 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 | Item no. |
|---|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|----------|
|   | 20           | 50                 | NPT 3/4             | 3.9                          | 11                                    | 2                | 283 915  |
|   |              |                    |                     |                              |                                       | 3                | 283 916  |
|   |              |                    |                     |                              |                                       | 4                | 283 917  |
|   |              |                    |                     |                              |                                       | 5                | 283 918  |
|   |              |                    |                     |                              |                                       | 5                | 283 918  |
|  | 25           | 63                 | NPT 1               | 4.2                          | 11                                    | 2                | 283 949  |
|   |              |                    |                     |                              |                                       | 3                | 283 950  |
|   |              |                    |                     |                              |                                       | 4                | 283 951  |
|   |              |                    |                     |                              |                                       | 5                | 283 952  |
|   |              |                    |                     |                              |                                       | 5                | 283 952  |
|  | 20           | 50                 | NPT 3/4             | 5.2                          | 16                                    | 2                | 283 919  |
|   |              |                    |                     |                              |                                       | 3                | 283 920  |
|   |              |                    |                     |                              |                                       | 4                | 283 922  |
|   |              |                    |                     |                              |                                       | 5                | 283 923  |
|   |              |                    |                     |                              |                                       | 5                | 283 923  |
|  | 25           | 70                 | NPT 1               | 5.0                          | 16                                    | 2                | 283 953  |
|   |              |                    |                     |                              |                                       | 3                | 283 954  |
|   |              |                    |                     |                              |                                       | 4                | 283 955  |
|   |              |                    |                     |                              |                                       | 5                | 283 956  |
|   |              |                    |                     |                              |                                       | 5                | 283 956  |

**i** 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 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 | Item no. |
|---|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|----------|
|  | 20           | 50                 | G ¾                 | 3.9                          | 11                                    | 2                | 283 924  |
|   |              |                    |                     |                              |                                       | 3                | 283 925  |
|   |              |                    |                     |                              |                                       | 4                | 283 926  |
|   |              |                    |                     |                              |                                       | 5                | 283 927  |
|   |              |                    |                     |                              |                                       | 5                | 283 927  |
|  | 25           | 63                 | G 1                 | 4.2                          | 11                                    | 2                | 283 958  |
|   |              |                    |                     |                              |                                       | 3                | 283 960  |
|   |              |                    |                     |                              |                                       | 4                | 283 961  |
|   |              |                    |                     |                              |                                       | 5                | 283 962  |
|   |              |                    |                     |                              |                                       | 5                | 283 962  |
|  | 20           | 50                 | G ¾                 | 5.2                          | 16                                    | 2                | 283 928  |
|   |              |                    |                     |                              |                                       | 3                | 283 929  |
|   |              |                    |                     |                              |                                       | 4                | 283 930  |
|   |              |                    |                     |                              |                                       | 5                | 283 931  |
|   |              |                    |                     |                              |                                       | 5                | 283 931  |
|  | 25           | 70                 | G 1                 | 5.0                          | 16                                    | 2                | 283 963  |
|   |              |                    |                     |                              |                                       | 3                | 283 964  |
|   |              |                    |                     |                              |                                       | 4                | 283 965  |
|   |              |                    |                     |                              |                                       | 5                | 283 966  |
|   |              |                    |                     |                              |                                       | 5                | 283 966  |

## 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 | Item no. |
|---|--------------|--------------------|---------------------|------------------------------|---------------------------------------|------------------|----------|
|   | 20           | 50                 | NPT ¾               | 3.9                          | 11                                    | 2                | 283 932  |
|   |              |                    |                     |                              |                                       | 3                | 283 933  |
|   |              |                    |                     |                              |                                       | 4                | 283 934  |
|   |              |                    |                     |                              |                                       | 5                | 283 935  |
|   |              |                    |                     |                              |                                       | 5                | 283 935  |
|  | 25           | 63                 | NPT 1               | 4.2                          | 11                                    | 2                | 283 968  |
|   |              |                    |                     |                              |                                       | 3                | 283 969  |
|   |              |                    |                     |                              |                                       | 4                | 283 971  |
|   |              |                    |                     |                              |                                       | 5                | 283 972  |
|   |              |                    |                     |                              |                                       | 5                | 283 972  |
|  | 20           | 50                 | NPT ¾               | 5.2                          | 16                                    | 2                | 283 936  |
|   |              |                    |                     |                              |                                       | 3                | 283 937  |
|   |              |                    |                     |                              |                                       | 4                | 283 938  |
|   |              |                    |                     |                              |                                       | 5                | 283 939  |
|   |              |                    |                     |                              |                                       | 5                | 283 939  |
|  | 25           | 70                 | NPT 1               | 5.0                          | 16                                    | 2                | 283 973  |
|   |              |                    |                     |                              |                                       | 3                | 283 974  |
|   |              |                    |                     |                              |                                       | 4                | 283 975  |
|   |              |                    |                     |                              |                                       | 5                | 283 976  |
|   |              |                    |                     |                              |                                       | 5                | 283 976  |

**i** Further versions on request**Orifice**

DN10 threaded, DN15 welded

**Material**

Seal between body and actuator PTFE (FDA compliant version)

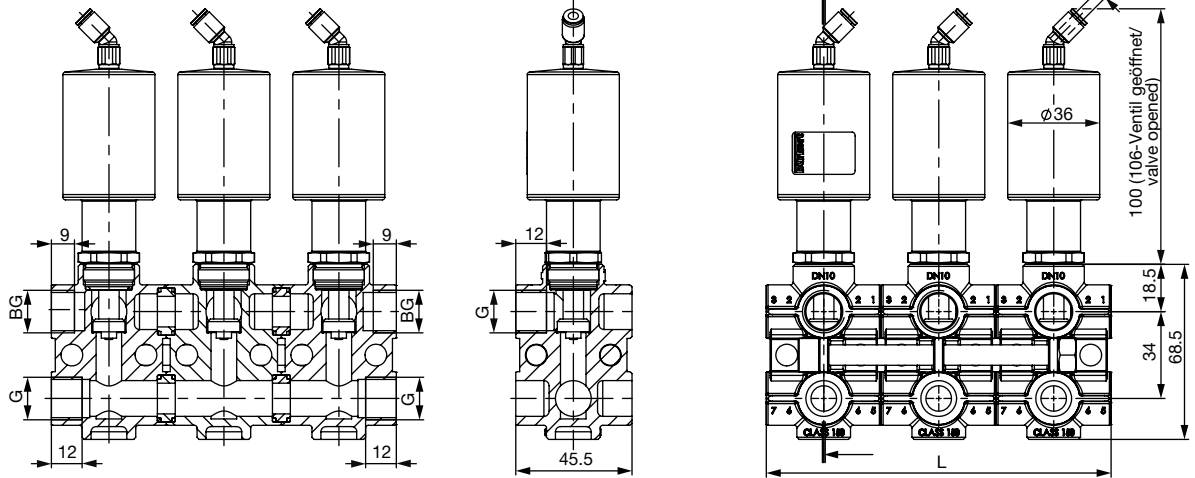
**Line connection**

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

Dimensions [mm]

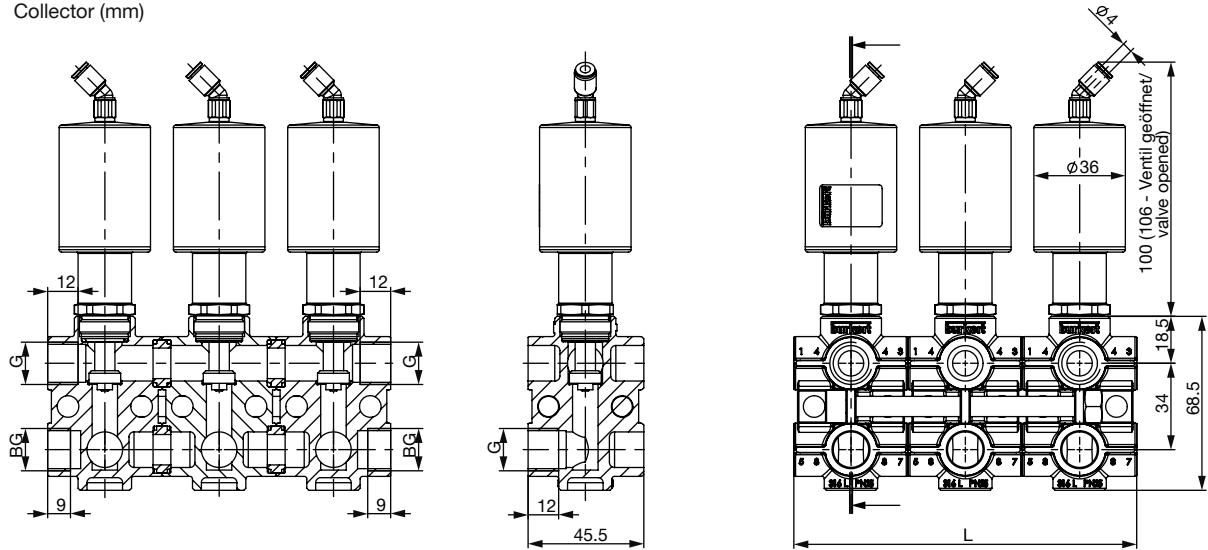
**Type 8840 INOX DN10**

Distributor (mm)



**Type 8840 INOX DN10**

Collector (mm)



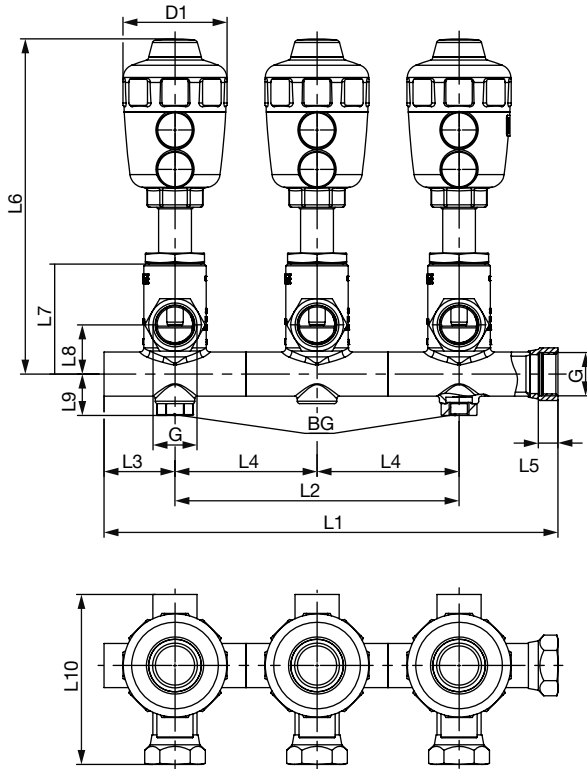
| DN [mm] | Actuator size [mm] | Thread G             | Thread BG <sup>1)</sup> | Number of valves | L [mm] |
|---------|--------------------|----------------------|-------------------------|------------------|--------|
| 10      | 32                 | G 3/8 or NPT 3/8     | G 3/8 or NPT 3/8        | 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   |      |      |    |     |    |    |    |     |    |

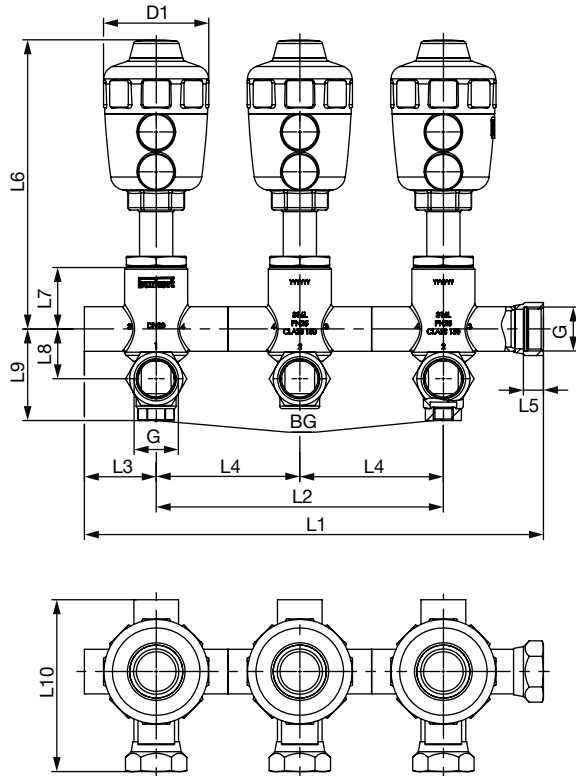
<sup>1)</sup>Threads can only be used to attach the valve block, e.g. to a mounting plate or a frame.



Dimensions [mm] continued

Type 8840 CLASSIC DN20, DN25

Collector (mm)



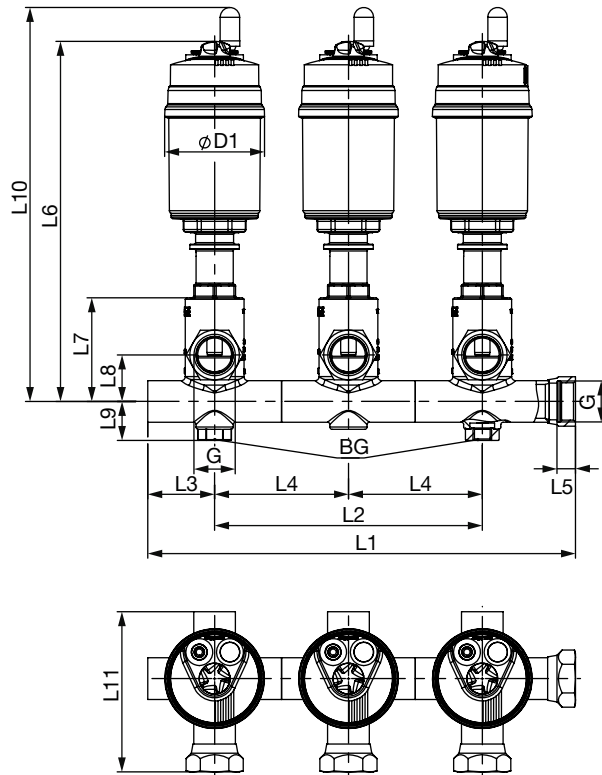
| DN [mm] | Actuator size [mm] | Thread G     | Thread BG <sup>1)</sup> | Number of valves | L1  | L2    | L3   | L4   | L5 | L6  | L7 | L8 | L9 | L10 | D1 |
|---------|--------------------|--------------|-------------------------|------------------|-----|-------|------|------|----|-----|----|----|----|-----|----|
| 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)



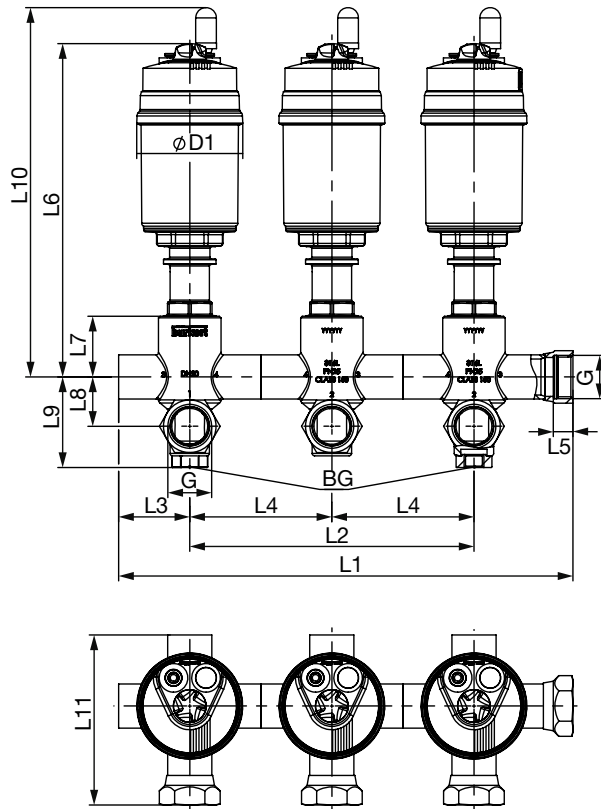
| DN [mm] | Actuator size [mm] | Thread G     | Thread BG <sup>1)</sup> | Number of valves | L1  | L2    | L3   | L4   | L5 | L6  | L7 | L8 | L9 | L10 | L11 | D1 |
|---------|--------------------|--------------|-------------------------|------------------|-----|-------|------|------|----|-----|----|----|----|-----|-----|----|
| 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 [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 | 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 ½ 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                |  |

**More info.**  
For more technical information about this product, click on this box... you will come to our website for this product where you can download the datasheet.

**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  PN   
 Pipe material

Process medium

State of medium  Liquid  Vapour  Gas

**Valve data**

Nominal pressure PN   
 Orifice DN   
 Connection  Thread  Weld ends  Clamp  
 Actuator version  INOX  CLASSIC  ELEMENT  
 Pilot pressure  min.  max.  
 ATEX II 2GD mechanical   
 FDA   
 EC Regulation 1935/2004   
 Item number (if known):

**Specification key**

(automatically transferred from page 12)

**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

Item number (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

Item number (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

Item number (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

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

### Commercial data

Project name

Quantity

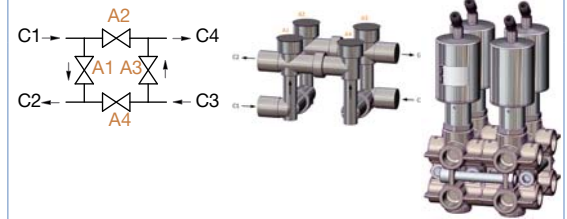
One-off request

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

To find your nearest Bürkert facility, click on the orange box →

[www.burkert.com](http://www.burkert.com)

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

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