



## Modular process valve cluster - distribution and collecting

- 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

Product variants described in the data sheet may differ from the product presentation and description.

### Can be combined with

	<b>Type 6012</b> Plunger valve 3/2 way direct-acting	▶
	<b>Type 8647</b> AirLINE SP – electro-pneumatic automation system	▶
	<b>Type 8697</b> Pneumatic control for decentralised automation of ELEMENT process valves	▶
	<b>Type 8691</b> Control head for decentralised automation of ELEMENT process valves	▶
	<b>Type 8695</b> Control head for decentralised automation of ELEMENT process valves	▶
	<b>Type 2000</b> Pneumatically operated 2/2 way angle seat valve CLASSIC	▶

### Type description

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.

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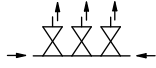

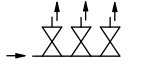


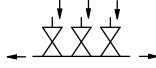

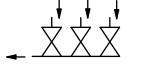

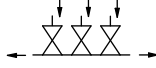

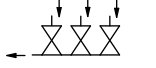

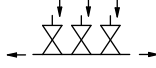

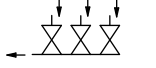
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## 1. General technical data




### 1.1. Modular process valve cluster Type 8840

Product properties	
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 7.
Material	
Body	Cast stainless steel 316L (CF3M)
Seal	PTFE
Spindle packing	PTFE seal with spring compensation
Actuator	
INOX DN10	Stainless steel (on request)
CLASSIC DN20, DN25	PA (PPS on request)
ELEMENT DN20, DN25	Actuator PPS, stainless steel cover 1.4561 (316Ti)
Nominal diameter	DN10 - threaded DN20, DN25 - welded
Control function	CFA (closed by spring force) CFB (opened by spring force) on request
Number of valve positions	
DN10 (threaded)	2...9 (clusters with larger number of valves on request )
DN20, DN25 (welded)	2...5 (clusters with larger number of valves on request )
Performance data	
Nominal pressure	PN25 (housing)
Pilot pressure	Max. 10 bar
Medium data	
Medium	Water, alcohols, oils, fuels, hydraulic fluid, saline solutions, alkalis, organic solvents, vapour
Medium temperature	- 10...+ 180 °C
Viscosity	Max. 600 mm <sup>2</sup> /s
Control medium	Neutral gases, air
Process/Port connection & communication	
Port connection	
Threaded connection	G %...G 1, NPT %...NPT 1
Welded connection	ISO 4200 (on request)
Clamp connection	DIN 32676/series B (on request)
Pilot air ports	
INOX DN10	Female elbow fitting (hose Ø4)
CLASSIC DN20, DN25	G ¼
ELEMENT DN20, DN25	Push-In 6/4
Approvals and certificates	
Conformity	FDA EC Regulation 1935/2004 SIL
Approvals (on request)	Explosion proof ATEX
Environment and installation	
Ambient temperature	
INOX DN10	0...+60 °C
CLASSIC DN20, DN25	- 10...+60 °C (PA actuator) + 5...+ 140 °C (PPS actuator)
ELEMENT DN20, DN25	0...+60 °C

### 1.2. Description of application

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

### 1.3. Actuator version

Actuator version	Nominal diameter	Actuator size	K <sub>v</sub> -value water	Minimum pilot pressure	Max. operating pressure up to 180 °C	
	[mm]				[mm]	[m <sup>3</sup> /h] <sup>1.)</sup>
	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

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

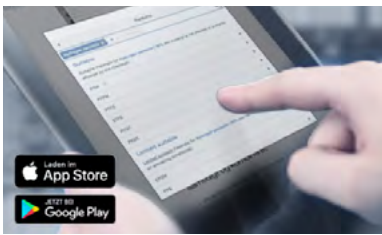
**Flow:** K<sub>v</sub> value water (m<sup>3</sup>/h): Measurement at +20 °C, 1 bar at the valve inlet and free outlet

**Pressure data [bar]:** Overpressure with respect to atmospheric pressure

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## 2. Materials

### 2.1. Chemical Resistance Chart – Bürkert resistApp



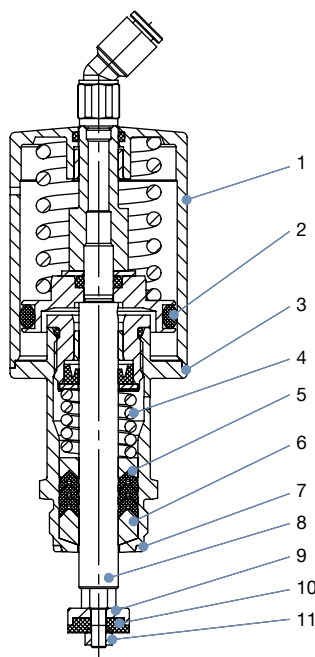
**Bürkert resistApp – Chemical Resistance Chart**

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start Chemical Resistance Check](#)

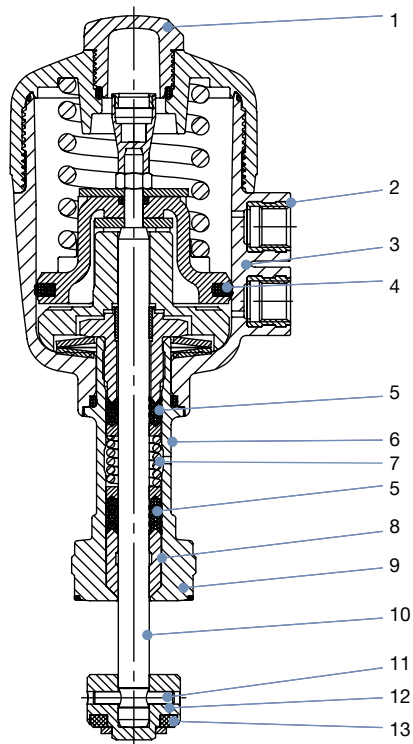
### 2.2. Material specifications

#### INOX actuator DN10



No.	Element	Material
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**

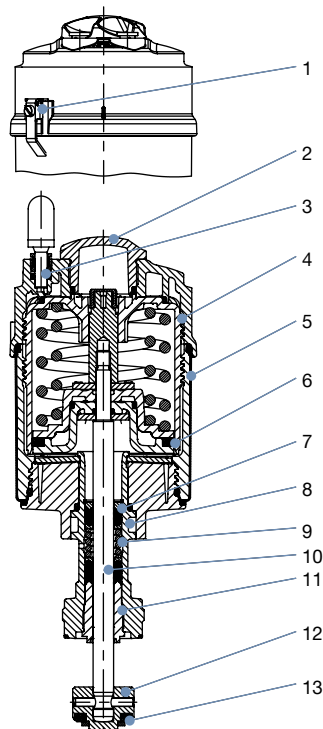


No.	Element	Material
1	Optical position indicator	PC (PSU for PPS actuator)
2	Pilot air ports	Stainless steel 1.4305
3	Actuator	PA (PPS on request)
4	Piston seal	NBR (FKM for PPS actuator)
5	Spindle seal	PTFE (FKM on request)
6	Pipe <sup>1.)</sup>	Stainless steel 1.4401 / Stainless steel 316L <sup>2.)</sup>
7	Spring	Stainless steel 1.4310
8	Wiper	PTFE
9	Nippel <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)

1.) One-piece for actuator size 63 mm to 125 mm

2.) For actuator size 63 mm

**ELEMENT actuator DN20, DN25**



No.	Element	Material
1	Ground terminal	Stainless steel 1.4301/1.4305 only for ATEX version
2	Optical position indicator	Optical position indicator polysulfone PSU
3	Pilot air ports	Push-in connector PP (standard) 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

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### 3. Dimensions

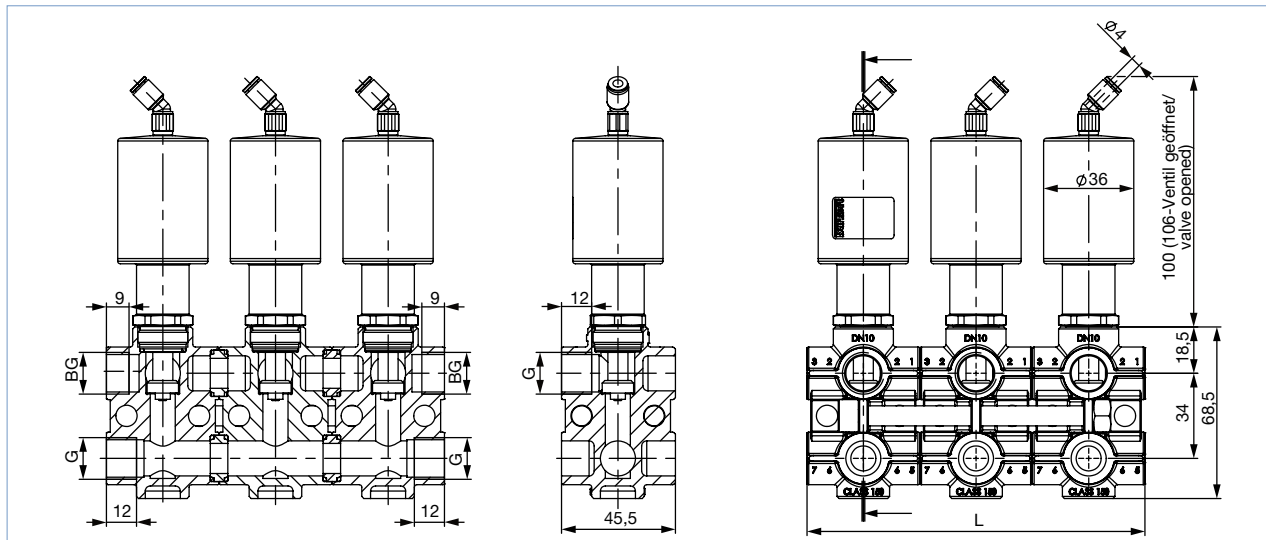
#### 3.1. Dimensions

##### INOX actuator DN10

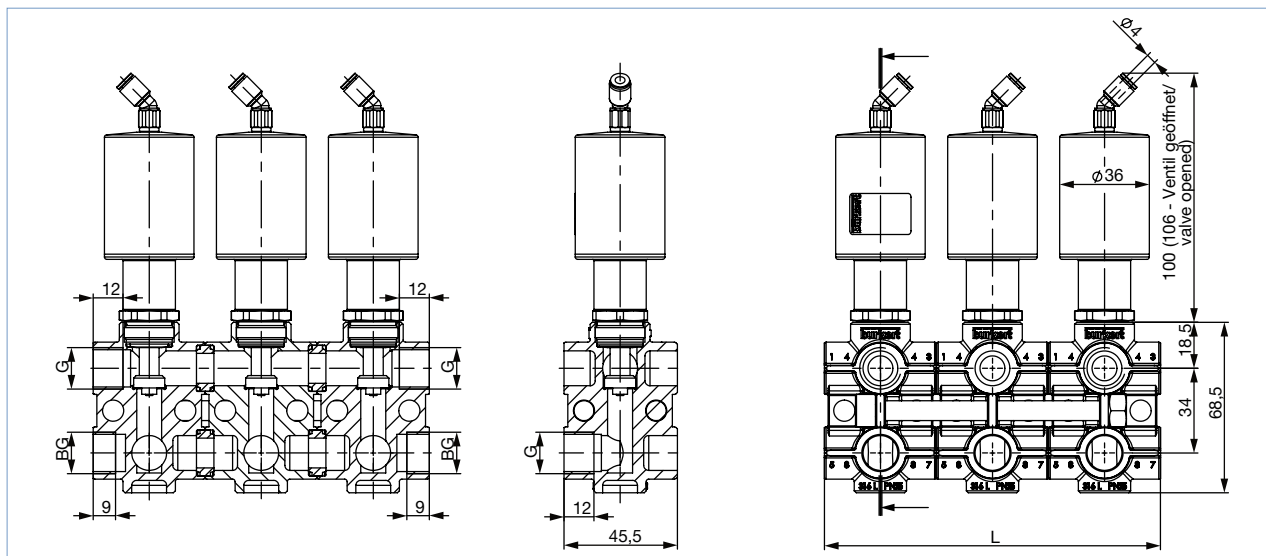
**Note:**

Dimensions in mm

**Distributor**



**Collector**



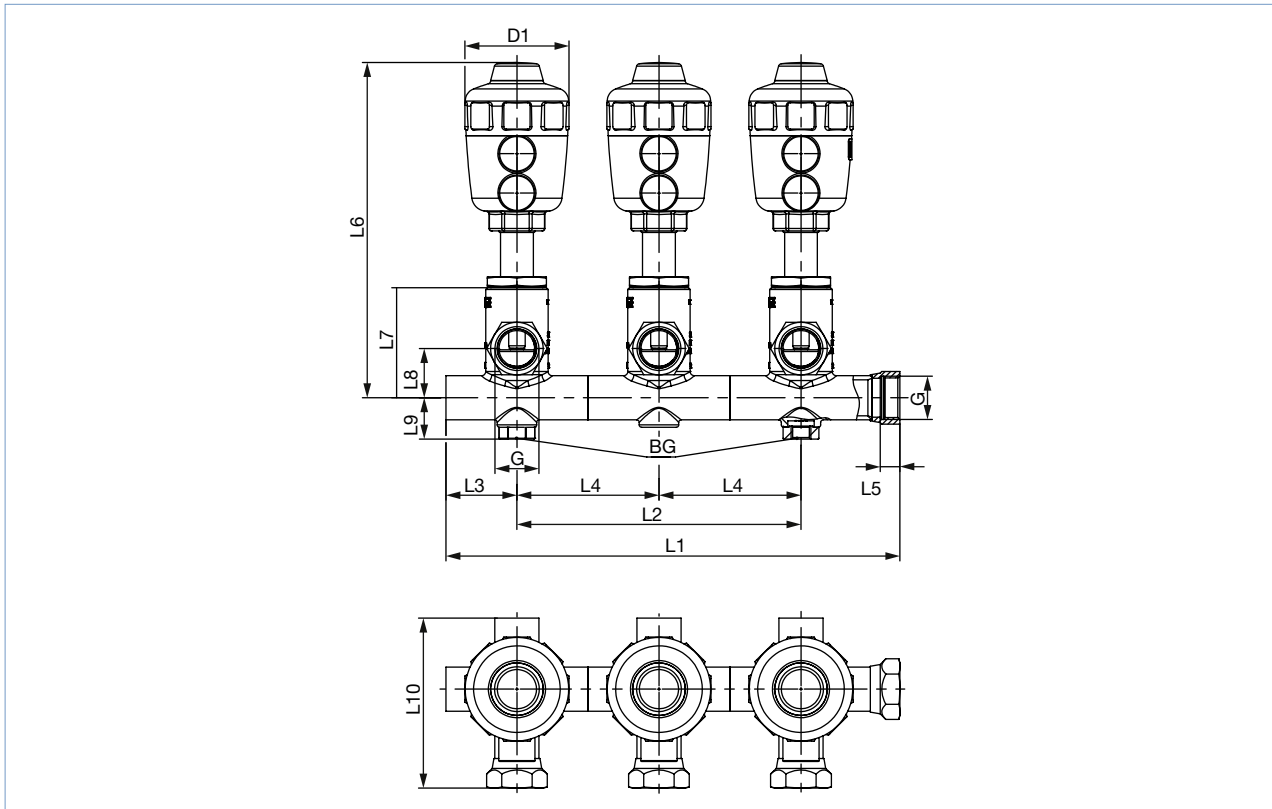
DN [mm]	Actuator size [mm]	Thread G	Thread BG <sup>1.)</sup>	Number of valves	L [mm]
10	32	G 3/8 or NPT 3/8	G 3/8 or NPT 3/8	2	90
10	32	G 3/8 or NPT 3/8	G 3/8 or NPT 3/8	3	135
10	32	G 3/8 or NPT 3/8	G 3/8 or NPT 3/8	4	180
10	32	G 3/8 or NPT 3/8	G 3/8 or NPT 3/8	5	225
10	32	G 3/8 or NPT 3/8	G 3/8 or NPT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

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

### 3.2. CLASSIC actuator DN20, DN25

**Note:**  
Dimensions in mm

**Distributor**

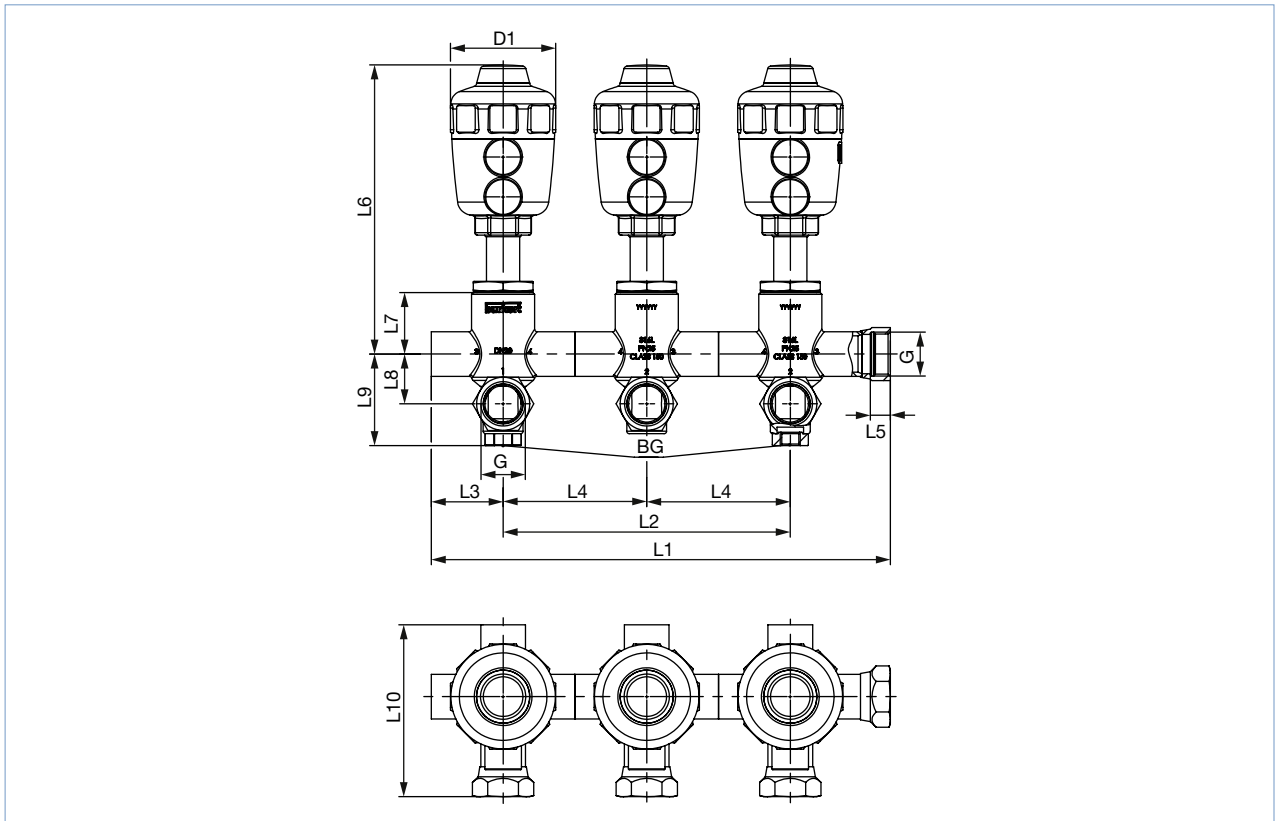


DN [mm]	Actuator size [mm]	Thread G	Thread BG <sup>1.)</sup>	Number of valves	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	D1
20	50	G ¾ or NPT ¾	M12/8 deep	2	190	86.5	43.3	86.5	12	205	67	30	25	104	63
				3	277	173									
				4	363	259.5									
				5	450	346									
25	63	G 1 or NPT 1	M16/13 deep	2	228	104	52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

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



Collector



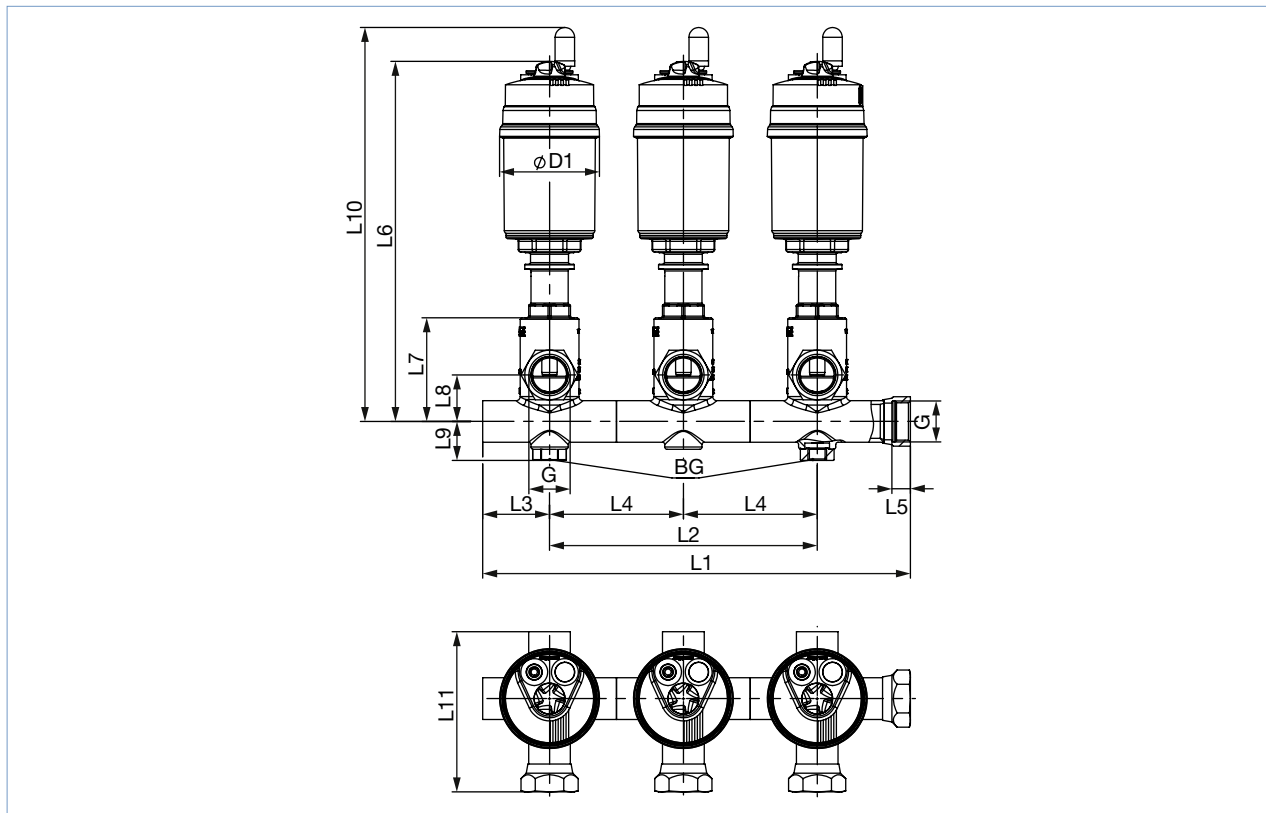
DN [mm]	Actuator size [mm]	Thread G	Thread BG <sup>1.)</sup>	Number of valves	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	D1
20	50	G ¾ or NPT ¾	M12/8 deep	2	190	86.5	43.3	86.5	12	175	37	30	55	104	63
				3	277	173									
				4	363	259.5									
				5	450	346									
25	63	G 1 or NPT 1	M16/13 deep	2	228	104	52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

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

### 3.3. ELEMENT actuator DN20, DN25

**Note:**  
Dimensions in mm

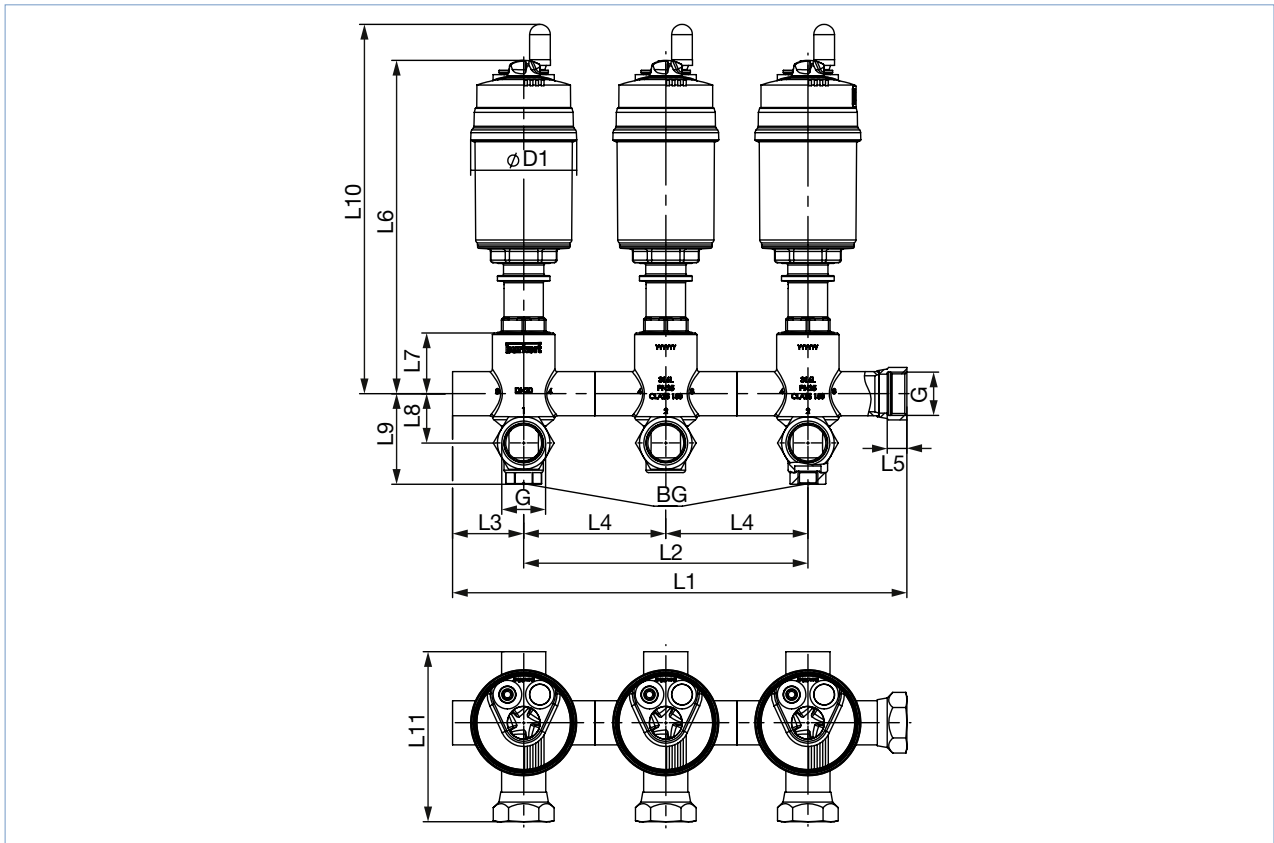
**Distributor**



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 3/4 or NPT 3/4	M12/8 deep	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 deep	2	228	104	52	104	14	261	83	41	32	281	124	91
				3	332	208										
				4	436	312										
				5	540	416										

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

Collector






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 deep	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 deep	2	228	104	52	104	14	220	42	41	73	240	124	91
				3	332	208										
				4	436	312										
				5	540	416										

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

## 4. Product design and assembly

### 4.1. Application examples

Valve system	Description of application
	<p>Distributing gas in the pharmaceutical and food industry 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>Cleaning processes in the pharmaceutical and food industry 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>Controlling the temperature of industrial processes 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>

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## 5. Product accessories

Control head	
<b>Type 8691 ▶</b> Actuator size Ø 70/90/130 mm	<b>Description</b>  The control heads, Type 8691 and 8695, are optimized for integrated mounting on process valves of the 21XX series. The valve position is detected without contact via an analogue sensor element, which automatically detects and stores the valve end positions during commissioning using the Teach-In function. The integrated pilot valve controls single or double-acting actuators. The switching status of the valve is indicated by coloured high-performance LEDs.
	<b>Features</b> <ul style="list-style-type: none"> <li>• Status indication via coloured high-power LEDs</li> <li>• Non-wearing inductive position sensor</li> </ul>
<b>Type 8695 ▶</b> Actuator size Ø 50 mm	<ul style="list-style-type: none"> <li>• Pilot valve with manual override</li> <li>• Teach-In function for automatic recognition of the valve end positions</li> <li>• Hygienic stainless steel design</li> <li>• Easy to clean chemical resistant housing according to IP65/67, 4X rating</li> <li>• AS-Interface, IO-Link, Bürkert system bus (büS)</li> </ul>
	<b>Customer benefits</b> <ul style="list-style-type: none"> <li>• Simple and safe commissioning by means of Teach-In function</li> <li>• Easy process monitoring and fault detection through visible coloured high-power LEDs</li> <li>• High degree of system availability due to increased actuator service life by means of spring chamber ventilation</li> <li>• Minimal space requirement in the plant piping for more flexibility in plant design</li> </ul>
Pneumatic Control unit/Position feedback	
<b>Type 8690 ▶</b> Actuator size Ø 70/90/130 mm	<b>Description</b>  The pneumatic control units, Type 8690 and 8697, are optimized for integrated mounting on process valves of the 21XX series. Mechanical or inductive limit switches detect the valve position. The integrated pilot valve controls single or double-acting (Type 8690) actuators.
	<b>Features</b> <ul style="list-style-type: none"> <li>• Optical position indicator</li> </ul>
<b>Type 8697 ▶</b> Actuator size Ø 50 mm	<ul style="list-style-type: none"> <li>• Mechanical or inductive proximity switches for end position detection</li> <li>• Pilot valve with manual override</li> <li>• Compact design</li> <li>• Easy to clean, chemical resistant housing according to IP65/67, 4X rating</li> <li>• Optional intrinsically safe design according to ATEX/IECEX</li> </ul>
	<b>Customer benefits</b> <ul style="list-style-type: none"> <li>• Simple and safe commissioning using the Teach-In function (Type 8697)</li> <li>• Signal reliability due to the automatic adjustment of the limit position switches</li> <li>• Minimal space requirement in the plant piping for more flexibility in plant design</li> </ul>

## 6. Networking and combination with other Bürkert products

### 6.1. 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 “3. Dimensions” on page 7).

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

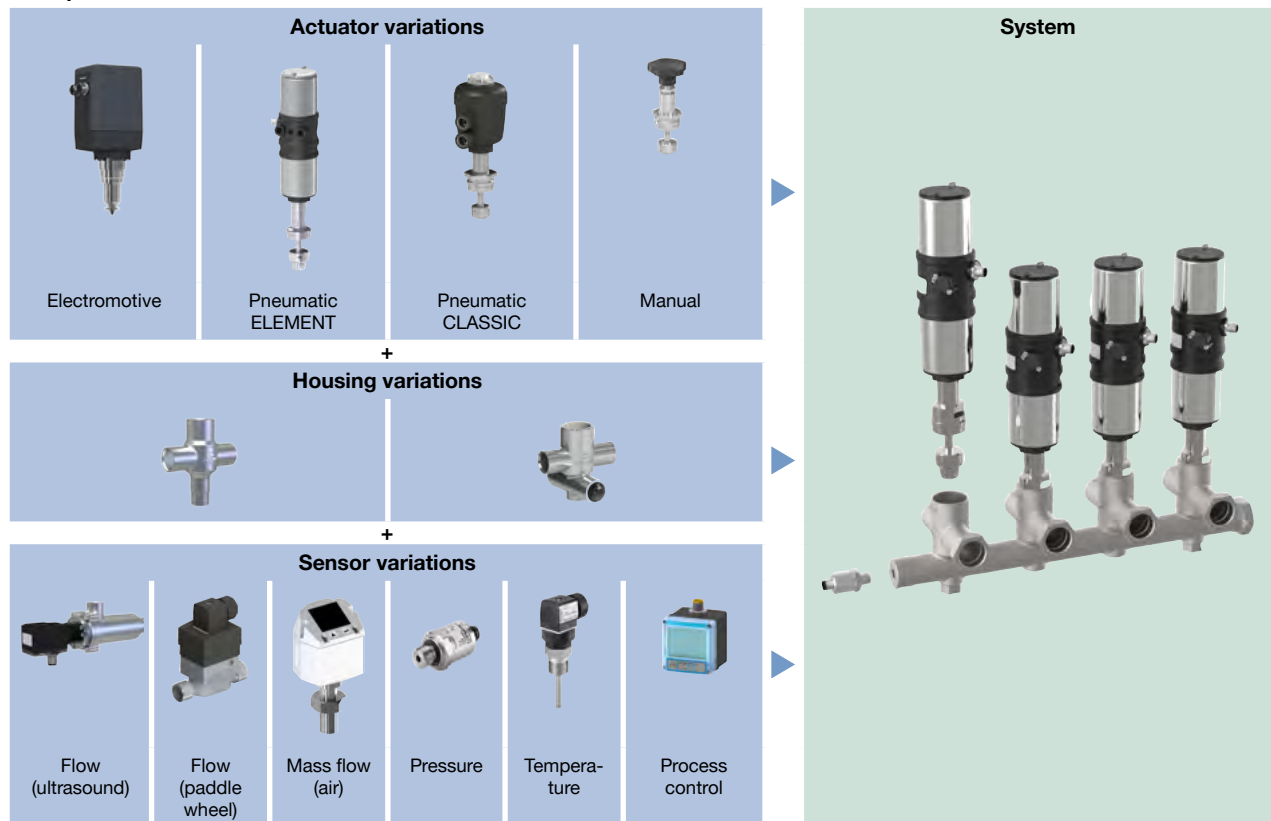
**Control, regulation principle:** On/Off, continuous

**Sensor variations:** Temperature, pressure, flow

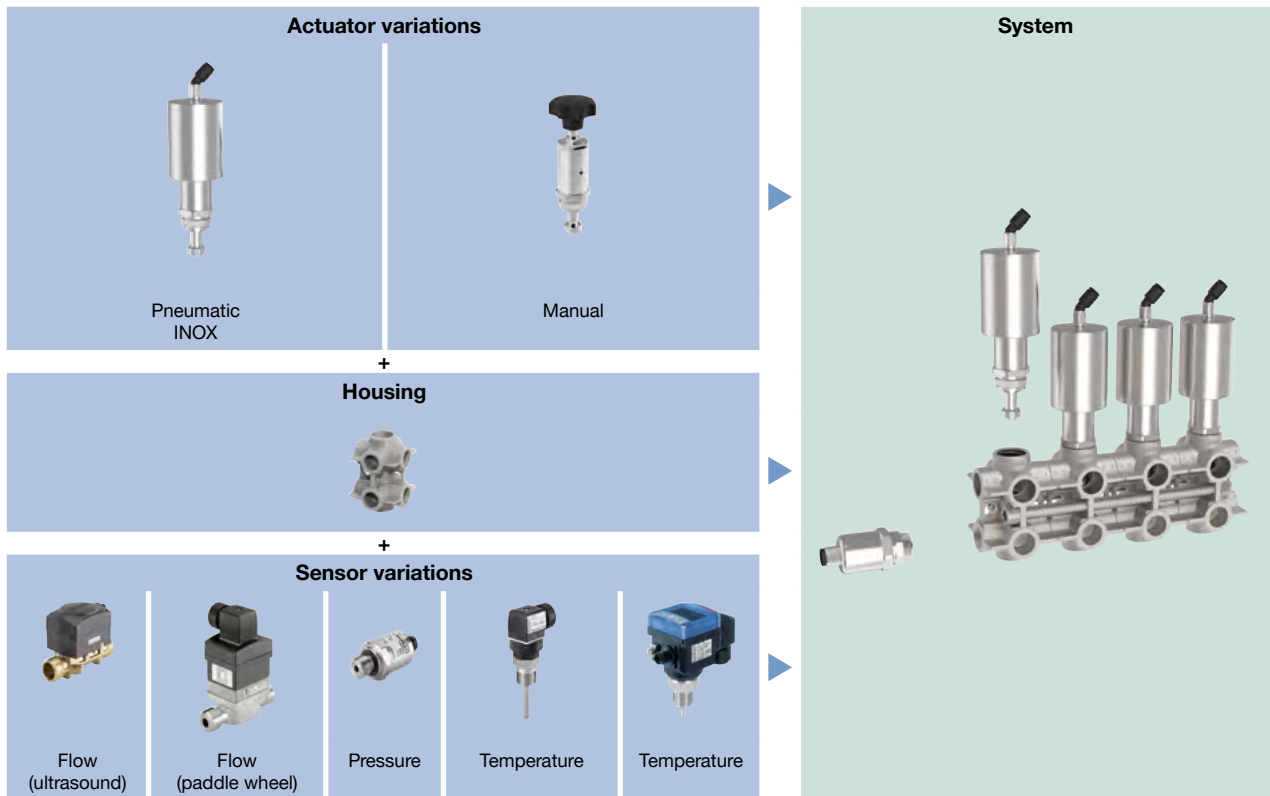
Irrespective of whether the system is to be actuated by an electric motor, pneumatically or manually, Bürkert offers the ideal actuator and control/regulation principle for every requirement. Moreover, the ideal measuring principle can be selected from the extensive sensor range for measuring temperature, 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.

#### Example 1



**Example 2**



## 7. Ordering information

### 7.1. Bürkert eShop – Easy ordering and quick delivery



**Bürkert eShop – Easy ordering and fast delivery**

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

### 7.2. Bürkert product filter



**Bürkert product filter – Get quickly to the right product**

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

















































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### 7.3. Ordering chart

**Note:**

Further versions on request

Actuator version	Nominal diameter [mm]	Actuator size [mm]	Threaded connection	Minimum pilot pressure [bar]	Operating pressure up to 180 °C [bar]	Number of valves	Article no.
<b>Modular process valve cluster distributor – G threaded connection</b>							
	20	50	G ¾	3.9	11	2	283906 
						3	283908 
						4	283909 
						5	283910 
						25	63
						3	283942 
						4	283943 
						5	283944 
	20	50	G ¾	5.2	16	2	283911 
						3	283912 
						4	283913 
						5	283914 
						25	70
						3	283946 
						4	283947 
						5	283948 
<b>Modular process valve cluster distributor – NPT threaded connection</b>							
	20	50	NPT ¾	3.9	11	2	283915 
						3	283916 
						4	283917 
						5	283918 
						25	63
						3	283950 
						4	283951 
						5	283952 
	20	50	NPT ¾	5.2	16	2	283919 
						3	283920 
						4	283922 
						5	283923 
						25	70
						3	283954 
						4	283955 
						5	283956 
<b>Modular process valve cluster collector – G threaded connection</b>							
	20	50	G ¾	3.9	11	2	283924 
						3	283925 
						4	283926 
						5	283927 
						25	63
						3	283960 
						4	283961 
						5	283962 
	20	50	G ¾	5.2	16	2	283928 
						3	283929 
						4	283930 
						5	283931 
						25	70
						3	283964 
						4	283965 
						5	283966 



Modular process valve cluster collector – NPT threaded connection							
	20	50	NPT 3/4	3.9	11	2	283932
						3	283933
						4	283934
						5	283935
						25	63
3	283969						
4	283971						
5	283972						
	20	50	NPT 3/4	5.2	16	2	283936
						3	283937
						4	283938
						5	283939
						25	70
3	283974						
4	283975						
5	283976						

Further versions on request	
<p><b>Material</b> Seal between body and actuator PTFE (FDA compliant version)</p>	<p><b>Nominal diameter</b> DN10 threaded, DN15 welded</p>
<p><b>Process connection</b> Weld end acc. to ISO 4200, clamp acc. to DIN 32676/ Series B</p>	

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## Product Enquiry Form - Modular process valve cluster Type 8840

Thank you for your interest in our products! In order to provide you with optimum advice, please fill out the following form and send it to your **Bürkert representative** or e-mail address: [info@burkert.com](mailto:info@burkert.com). All information submitted will of course be kept strictly confidential.

Please fill in the required fields!  \*

\*Note: The interactive functions of this PDF may be restricted depending on the PDF reader used.

Personal Information			
Company		Contact person	
Customer no.		Department	
Street		Postcode / Town	
Telephone no.		Email	

### Standard configuration

Delivery	
Quantity	Required delivery date

Operating data			
Pipeline	DN	PN	
Operating medium			
Type of medium	Fluid	Steam	Gas

Valve data			
Article no. (if known)			
Pipe material			
Orifice / Nominal pressure	DN	PN	
Connection	Thread	Weld	Clamp
Actuator version	INOX	CLASSIC	ELEMENT
Pilot pressure	min.	max.	

Approvals / Conformity	
Explosion protection acc. to ATEX II 2GD mech. / IECex	For use with food (FDA compliant)
For use with foodstuffs (compliant with EC Regulation 1935/2004)	

### Customised configuration

Commercial data		
	Project name	Quantity
One-off request	Multiple request	

Flow diagram	Legend (example sketch)
<p>Please provide a schematic sketch</p>	<p>Seat valve</p> <p>Medium flow direction</p> <p>C1, C2, ... Connections - system/block</p> <p>A1, A2, ... Actuators (valves on block)</p> <p>C1 ... Cn</p> <p>A1 ... An</p>

## Specification key

**Note:**

Please fill out this product enquiry form as completely as possible!

		Quantity	Type	Orifice	Port connection	Actuator version	Quantity of valve places	Function
Key no. →		1	2	3	4	5	6	
1	Choice →	8840						
	Remarks							

## Key legend

Key no. 1: Orifice DN (mm)		Key no. 3: Actuator version	
10		H	INOX (for orifice DN10, DN15)
15		C	CLASSIC PA (for orifice DN15, DN20, DN25)
20		D	CLASSIC PPS (for orifice DN15, DN20, DN25)
25		G	ELEMENT (for orifice DN15, DN20, DN25)
Key no. 2: Port connection		Key no. 4: Quantity of valve places	
GM83	G 3/8 Threaded connection (for orifice DN10)	2	
NM83	NPT 3/8 Threaded connection (for orifice DN10)	3	
GM84	G 1/2 Threaded connection (for orifice DN15)	4	
NM84	NPT 1/2 Threaded connection (for orifice DN15)	5	
SA42	Welded connection Ø 21,3 × 1,6 (for orifice DN15)	6	
TC42	Clamp connection Ø 21,3 × 1,6 Cl:34 (for orifice DN15)	7	
GM85	G 3/4 Threaded connection (for orifice DN20)	8	
NM85	NPT 3/4 Threaded connection (for orifice DN20)	9	
SA43	Welded connection Ø 26,9 × 1,6 (for orifice DN20)	<b>Key no. 5: Function</b>	
TC43	Clamp connection Ø 26,9 × 1,6 Cl:50,5 (for orifice DN20)	S	Collector
GM86	G 1 Threaded connection (for orifice DN25)	V	Distributor
NM86	NPT 1 Threaded connection (for orifice DN25)		
SA44	Welded connection Ø 33,7 × 2 (for orifice DN25)		
TC44	Clamp connection Ø 33,7 × 2 Cl:50,5 (for orifice DN25)		

## Specification key example

		Quantity	Type	Orifice	Port connection	Actuator version	Quantity of valve places	Function
Key no. →		1	2	3	4	5	6	
1	Choice →	1	8840	20	SA43	G	3	S
	Remarks							