

## 2/2 way Diaphragm Valve with stainless steel design, welded or clamp connection, DN4-50



Type 2103 cast On/Off can be combined with...



**Type 8691**

Control Head



**Type 8695**

Control Head



**Type 8690**

Pneumatic Control Unit



**Type 8697**

Pneumatic Control Unit

- Optimized flow and zero deadleg
- Diaphragm hermetically separates the fluids from the operating mechanism
- Easy integration of ELEMENT automation units
- Stainless steel body with clamp or weld ends
- FDA/3 A quality certifications



For process valves with centralized automation see CLASSIC Type 20xx

The externally piloted diaphragm valve consists of a pneumatically operated piston actuator, a diaphragm and a 2-way valve housing made of cast stainless steel. The high-quality actuator with a stainless steel cover is designed for usage in hygienic or aggressive environments.

The flow optimised and zero dead volume valve body makes high flow rates possible and a variety of applications to be realised.

The design enables the easy integration of automation modules whether they are electrical/optical position feedback, pneumatic control units, an integrated fieldbus interface or even an explosion proof feedback.

The fully integrated system has a compact and smooth design, integrated pneumatic lines, IP65/67/NEMA4X protection class and superior chemical resistance.

Technical data	
<b>Orifice</b>	DN4 to 50
<b>Body material</b>	Cast stainless steel 316L / 1.4435
<b>Actuator material</b> Actuator / Cover	PPS / Stainless steel 1.4561 (316Ti)
<b>Diaphragm materials</b>	EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU) and FKM (FF) on request
<b>Media</b>	Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids
<b>Viscosity</b>	up to viscous
<b>Surface finishes</b> internal mechanical polished internal electro polished (on request)	(average surface finish) Ra ≤ 0.8 µm (external cast surface) Ra ≤ 0.6 µm (external cast surface electro polished)
<b>Medium temperatures</b> EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU) FKM (FF)	- 10 to + 130 °C (steam sterilisation + 140 °C for 60 min) - 5 to + 143 °C (steam sterilisation + 150 °C for 60 min) 0 to + 130 °C (not recommended for steam)
<b>Ambient temperature</b>	+ 5 to + 60 °C
<b>Control medium</b>	Neutral gases, air
<b>Max. pilot pressure</b>	max. 10 bar, 7 bar with actuator size 130 mm

### Content



#### Valve specifications

#### Type 2103 cast On/Off

Technical data & ordering info.

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#### System spec. On/Off ELEMENT

#### Type 8801-DF

Ordering info. & technical data

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#### Request for quotation

#### Type 8801-DF










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**Ordering information for decentralized automation of On/Off ELEMENT valve system Type 8801-DF**

A decentralized, automated **On/Off ELEMENT valve system Type 8801-DF** consists of a **diaphragm valve Type 2103** and a valve actuation system control head **Type 8691/8695** or a pneumatic control unit **Type 8690/8697** (see separate datasheets).

For the configuration of further valve systems please use the "Request for quotation" on p. 14 - 16.

You order two components and receive a complete assembled and certified valve.

<u>Diaphragm valve Type 2103</u>	<u>Control Head</u>		<u>Pneumatic Control Unit / Feedback</u>	
	Type 8691	Type 8695	Type 8690	Type 8697
	 <b>More info.</b>	 <b>More info.</b>	 <b>More info.</b>	 <b>More info.</b>
<u>Valve System On/Off ELEMENT</u>				
				
	<b>Valve System Type 8801-DF-H</b> 2103 + 8691 (Actuator size Ø 70/90/130 mm)	<b>Valve System Type 8801-DF-M</b> 2103 + 8695 (Actuator size Ø 50 mm)	<b>Valve System Type 8801-DF-K</b> 2103 + 8690 (Actuator size Ø 70/90/130 mm)	<b>Valve System Type 8801-DF-U</b> 2103 + 8697 (Actuator size Ø 50 mm)

*A detailed description of the control heads and pneumatic control units is on the next page... →*

Ordering information for decentralized automation of On/Off ELEMENT valve system Type 8801-DF

Control Head



More info.



More info.

**Type 8691**

Actuator size Ø 70/90/130 mm

**Type 8695**

Actuator size Ø 50 mm

The Control Head Type 8691/ 8695 is optimised for integrated mounting on the 21XX process valve series. The registration of the valve end position is done through a contactless analog position sensor, which automatically recognises and saves the valve end position through the Teach function when starting up. The integrated pilot valve controls single or double-acting actuators. The status of the valve is shown through high power coloured LEDs.

**Features**

- High power coloured Status-LEDs
- Contactless inductive position sensor
- Pilot valve with manual override
- Teach function for automatic registration of valve positions
- Hygienic stainless steel design
- Easy to clean chemically resistant housing featuring IP65 / IP67, 4X Rating
- AS-Interface or DeviceNet Fieldbus communication

**Benefits**

- Easy and safe Start-up through Teach function
- Easy process monitoring and error detection through clearly visible high-power coloured LEDs
- High plant availability due to prolonged actuator life boosted by spring chamber ventilation
- Minimised space requirement in the plant piping for more flexibility in plant design

Pneumatic Control Unit / Feedback



More info.



More info.

**Type 8690**

Actuator size Ø 70/90/130 mm

**Type 8697**

Actuator size Ø 50 mm

The pneumatic control unit Type 8697/8690 is optimised for integrated mounting on the 21XX process valve series. Mechanical or inductive limit switches register the position of the valve. The integrated pilot valve controls single or double-acting (8690) actuators.

**Features**

- Visual position indicator
- Mechanical or inductive limit switches for end position registering
- Pilot valve with manual override
- Compact design
- Easy to clean chemically resistant housing featuring IP65 / IP67, 4X Rating
- Optional intrinsically safe version acc. to ATEX

**Benefits**

- Easy and safe Start-up through Teach function (Type 8697)
- High level of signal reliability thanks to self adjusting limit switches
- Minimised space requirement in the plant piping for more flexibility in plant design

Click on the orange box "More info"... you will come to our website for the resp. product where you can download the data sheet.

Technical data, *continued*

<b>Port connections</b>	<ul style="list-style-type: none"> <li>▪ DIN EN ISO 1127 / ISO 4200 / DIN 11866 Series B</li> <li>▪ DIN 11850 Series 2 / DIN 11866 Series A</li> <li>▪ DIN 11850 Series 0</li> <li>▪ SMS 3008 (on request)</li> <li>▪ DIN 32676 Series A (DIN Tube)</li> <li>▪ BS4825/ASME BPE</li> <li>▪ ISO 2852 / SMS 3017 (on request)</li> </ul>
Weld end	
Clamp	
<b>Pilot air ports</b>	Push-in connector for external Ø 6 mm or ¼" tube, thread G ¼ (on request)
<b>Installation</b>	as required, preferably with actuator in upright position

<sup>1)</sup> Advanced PTFE/EPDM is recommended for sterilization cycle

Technical data valves

K<sub>v</sub> value

Orifice		K <sub>v</sub> value water (m <sup>3</sup> /h)	Actuator size Ø [mm]	Permitted pilot pressure [bar]		Max. operating pressure [bar] for seal material	
[mm]	[inch]			min.	max.	EPDM, FKM [bar]	PTFE/EPDM and advanced PTFE/EPDM [bar]
4	-	0.8	50	5	10	10	10
6	-	0.8	50	5	10	10	10
8	¼"	1.0	50	5	10	10	10
10	⅜"	1.0	50	5	10	10	10
15	½"	5.5	70	5	10	10	10
20	¾"	10.0	70	5	10	10	10
25	1"	14.0	70	5	10	6.5	6
			90	5.5	10	10	8
40	1 ½"	30.0	130	5.0	7	10	10
50	2"	51.5	130	5.0	7	8	7

**Flow rate:** K<sub>v</sub> value water [m<sup>3</sup>/h]; Measured at +20 °C, 1 bar pressure at valve inlet and free outlet.

**Pressure valves [bar]:** Overpressure to the atmospheric pressure

Installation for self-draining operation

α = 15 up to 35° (Marking must face upwards, 12 o'clock position)  
plus 3° to 5° inclination to the pipe axis.  
Drain marks permanently marked on both sides of the valve body show the correct mounting position to optimise drain ability.

DTS 1000097547 EN Version: O Status: RL (released | freigegeben | validé) printed: 16.01.2018

Approvals

Suitability for foodstuffs / sterile applications



▪ The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA) and advanced PTFE (EU) diaphragms corresponds to the Code of Federal Regulations, published by the FDA (Food and Drug Administration, USA).

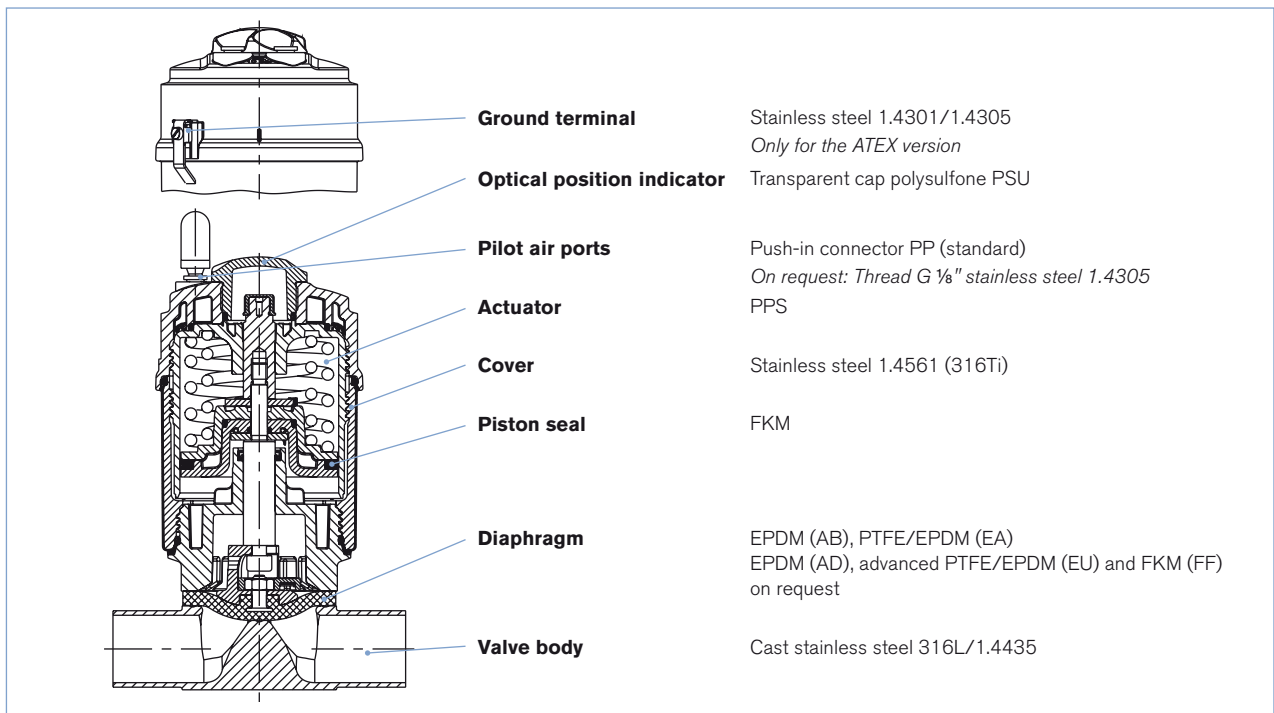


▪ The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA) and advanced PTFE (EU) diaphragms is suitable for the application with food and beverage (acc. to EC-Regulation 1935/2004/EC)

▪ The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA) und advanced PTFE (EU) diaphragms are approved acc. USP Class VI

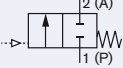
































▪ Approval according to TA-air (Port size DN4 - 50)

Materials



## Ordering chart Type 2103 cast diaphragm valve

Welded connection, surface finish mechanical polished, Ra ≤ 0.8 µm, further on request

Control function	Orifice		External-Ø [mm]	K <sub>v</sub> value water (m <sup>3</sup> /h)	Actuator size Ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	Article no. mechanical polished, Ra ≤ 0.8 µm
	[mm]	[inch]						
<b>A</b> 2/2 way valve, normally closed (NC) 	<b>Acc. to EN ISO 1127/ISO 4200/DIN 11866 Series B</b>							
	<b>Diaphragm material EPDM (AB)</b>							
	8	¼"	13.5	1.0	50	5-10	10	187239 
	15	½"	21.3	5.5	70	5-10	10	175128 
	20	¾"	26.9	10.0	70	5-10	10	175129 
	25	1"	33.7	14.0	70	5-10	6.5	175131 
					90	5.5-10	10	180345 
	40	1 ½"	48.3	30.0	130	5-7	10	188360 
	50	2"	60.3	51.5	130	5-7	8	188367 
	<b>Diaphragm material PTFE/EPDM (EA)</b>							
	8	¼"	13.5	1.0	50	5-10	10	187240 
	15	½"	21.3	5.5	70	5-10	10	175132 
	20	¾"	26.9	10.0	70	5-10	10	175133 
	25	1"	33.7	14.0	70	5-10	6	175134 
					90	5.5-10	8	180346 
	40	1 ½"	48.3	30.0	130	5-7	10	219312 
	50	2"	60.3	51.5	130	5-7	7	219313 
	<b>Acc. to DIN 11850 Series 2/ DIN 11866 Series A</b>							
	<b>Diaphragm material EPDM (AB)</b>							
	10	⅜"	13	1.0	50	5-10	10	187243 
	15	½"	19	5.5	70	5-10	10	176556 
	20	¾"	23	10.0	70	5-10	10	176557 
	25	1"	29	14.0	70	5-10	6.5	176558 
					90	5.5-10	10	180349 
	40	1 ½"	41.0	30.0	130	5-7	10	188372 
	50	2"	53.0	51.5	130	5-7	8	188373 
	<b>Diaphragm material PTFE/EPDM (EA)</b>							
	10	⅜"	13	1.0	50	5-10	10	187244 
	15	½"	19	5.5	70	5-10	10	176559 
	20	¾"	23	10.0	70	5-10	10	176560 
25	1"	29	14.0	70	5-10	6	176561 	
				90	5.5-10	8	180350 	
40	1 ½"	41.0	30.0	130	5-7	10	188374 	
50	2"	53.0	51.5	130	5-7	7	188375 	
<b>Acc. to DIN 11850 Series 0</b>								
<b>Diaphragm material EPDM (AB)</b>								
4	-	6	0.8	50	5-10	10	187255 	
6	-	8	0.8	50	5-10	10	187256 	
<b>Diaphragm material PTFE/EPDM (EA)</b>								
4	-	6	0.8	50	5-10	10	187257 	
6	-	8	0.8	50	5-10	10	187258 	

**i Further versions on request****Material**

Diaphragms for steam sterilization EPDM (AD), advanced PTFE / EPDM (EU) and FKM (FF)

**Port connection**

Welded acc. SMS 3008

**Control function**

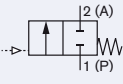


























B (normally open) and I (double-acting)

**Additional**

Surface finishes ≤ 0.6 and further

## Ordering chart Type 2103 cast diaphragm valve, continued

Clamp connection, surface finish mechanical polished, Ra ≤ 0.8 µm, further on request

Control function	Orifice		External-Ø [mm]	K <sub>v</sub> value water [m <sup>3</sup> /h]	Actuator size Ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	Article no. mechanical polished, Ra ≤ 0.6 µm
	[mm]	[inch]						
<b>A</b> 2/2 way valve, normally closed (NC) 	<b>Acc. to DIN 32676 Series A</b>							
	<b>Diaphragm material EPDM (AB)</b>							
	15	½"	34.0	5.5	70	5-10	10	188479 
	20	¾"	34.0	10.0	70	5-10	10	188480 
	25	1"	50.5	14.0	70	5-10	6.5	188481 
					90	5.5-10	10	188482 
	40	1 ½"	50.5	30.0	130	5-7	10	188483 
	50	2"	64.0	51.5	130	5-7	8	188484 
	<b>Diaphragm material PTFE/EPDM (EA)</b>							
	15	½"	34.0	5.5	70	5-10	10	188485 
	20	¾"	34.0	10.0	70	5-10	10	188486 
	25	1"	50.5	14.0	70	5-10	6	188487 
					90	5.5-10	8	188488 
	40	1 ½"	50.5	30.0	130	5-7	10	188489 
	50	2"	64.0	51.5	130	5-7	7	188490 
	<b>Acc. to ASME BPE</b>							
	<b>Diaphragm material EPDM (AB)</b>							
	8	¼"	25.0	1.0	50	5-10	10	187279 
	10	⅜"	25.0	1.0	50	5-10	10	187280 
	15	½"	25.0	5.5	70	5-10	10	188527 
	25	1"	50.5	14.0	70	5-10	6.5	188528 
					90	5.5-10	10	188529 
	40	1 ½"	50.5	30.0	130	5-7	10	188530 
	50	2"	64	51.5	130	5-7	8	188531 
	<b>Diaphragm material PTFE/EPDM (EA)</b>							
	8	¼"	25.0	1.0	50	5-10	10	187281 
	10	⅜"	25.0	1.0	50	5-10	10	187282 
	15	½"	25.0	5.5	70	5-10	10	188532 
25	1"	50.5	14.0	70	5-10	6	188533 	
				90	5.5-10	8	188534 	
40	1 ½"	50.5	30.0	130	5-7	10	188535 	
50	2"	64	51.5	130	5-7	7	188536 	

**i Further versions on request****Material**

Diaphragms for steam sterilization EPDM (AD), advanced PTFE/EPDM (EU) and FKM (FF)

**Port connection**

Clamp acc. to ISO 2852/SMS 3017

**Control function**

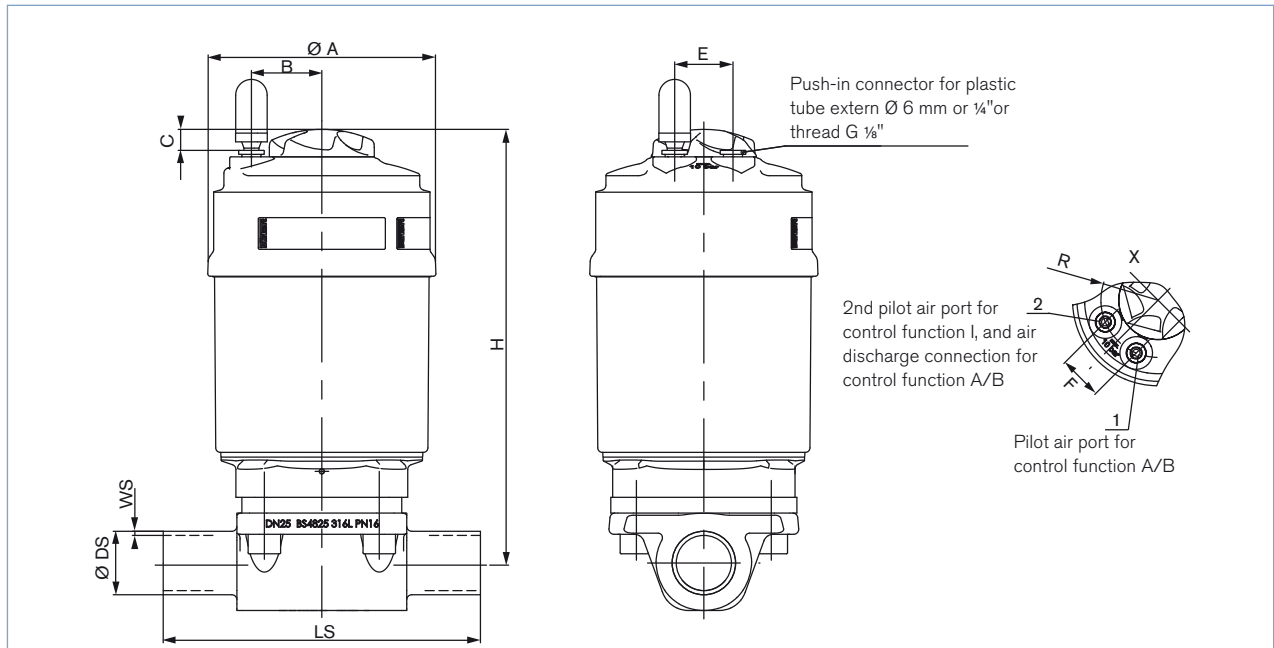
B (normally open) and I (double-acting)

**Additional**

Surface finishes ≤ 0.6 and further

Dimensions Type 2103 cast diaphragm valve [mm]

Welded connection



EN ISO 1127/ISO 4200/DIN 11866 Series B and DIN 11850 Series 2/ DIN 11866 Series A

All bodies									EN ISO 1127/ ISO 4200/ DIN 11866 S. B		DIN 11850 S. 2/ DIN 11866 S. A	
Orifice [mm]	[inch]	Actuator size Ø [mm]	Ø A	B	C	E	H	LS	Ø DS	WS	Ø DS	WS
10	⅜"	50	64.5	17.15	6.1	19.8	144	110	17.2	1.6	13.0	1.5
15	½"	70	91	30.5	8.5	23.3	161	110	21.3	1.6	19.0	1.5
20	¾"	70	91	30.5	8.5	23.3	171	119	26.9	1.6	23.0	1.5
		90	120	30.5	8.5	23.3	207	129	33.7	2.0	29.0	1.5
40	1 ½"	130	159	30.5	8.5	23.3	288	161	48.3	2.0	41.0	1.5
		50	130	159	30.5	8.5	23.3	311	192	60.3	2.0	53.0

DIN 11850 Series 0

Orifice [mm]	Actuator size Ø [mm]	Ø A	B	C	E	H	LS	Ø DS	WS
4	50	64.5	17.15	6.1	19.8	129	90	6	1.0
6	50	64.5	17.15	6.1	19.8	129	90	8	1.0

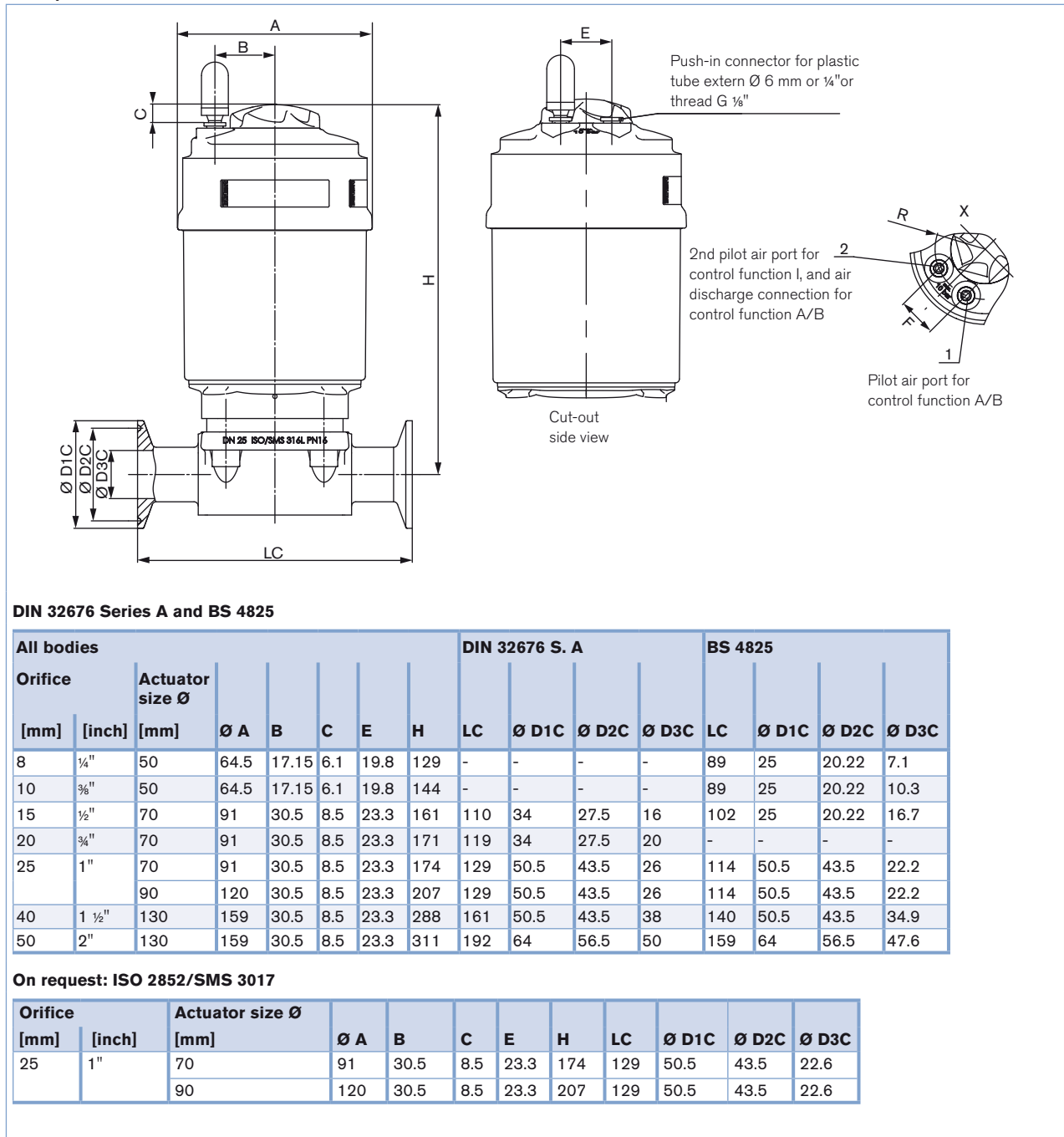
On request: SMS 3008

Orifice [mm]	[inch]	Actuator size Ø [mm]	Ø A	B	C	E	H	LS	Ø DS	WS
90	120	30.5	8.5	23.3	207	127	25	1.2		
40	1 ½"	130	159	30.5	8.5	23.3	288	161	38	1.2
50	2"	130	159	30.5	8.5	23.3	311	192	51	1.2



Dimensions Type 2103 cast diaphragm valve [mm], *continued*

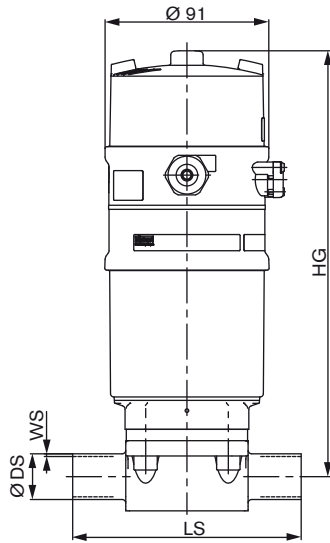
Clamp connection



Dimensions for valve system On/Off ELEMENT Type 8801-DF [mm]

Dimensions valve system On/Off ELEMENT Type 8801-DF-K (with pneumatic control unit Type 8690)

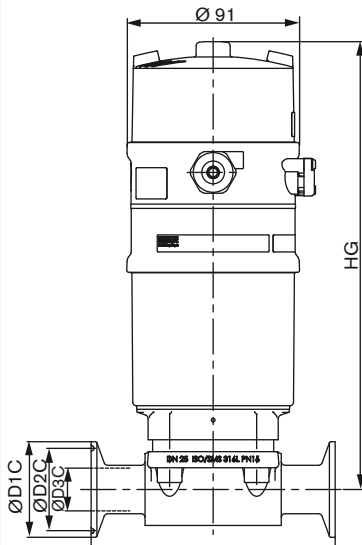
Welded connection



EN ISO 1127/ISO 4200/DIN 11866 S. B and DIN 11850 S. 2/DIN 11866 S. A (SMS 3008 on request)

Orifice		Actuator size Ø	HG	LS	EN ISO 1127/ ISO 4200/ DIN 11866 S. B		DIN 11850 S. 2/ DIN 11866 S. A		SMS 3008 (on request)	
[mm]	[inch]				Ø DS	WS	Ø DS	WS	Ø DS	WS
15	½"	70	224	110	21.3	1.6	19	1.5	-	-
20	¾"	70	234	119	26.9	1.6	23	1.5	-	-
25	1"	70	237	129	33.7	2.0	29	1.5	25	1.2
		90	270	129	33.7	2.0	29	1.5	25	1.2
40	1 ½"	130	351	161	48.3	2.0	41	1.5	38	1.2
50	2	130	374	192	60.3	2.0	53	1.5	51	1.2

Clamp connection



DIN 32676 Series A and BS 4825

Orifice		Actuator size Ø	HG	DIN 32676 S. A			BS 4825				
[mm]	[inch]			LC	Ø D1C	Ø D2C	Ø D3C	LC	Ø D1C	Ø D2C	Ø D3C
15	½"	70	224	110	34	27.5	16	102	25	20.22	16.7
20	¾"	70	234	119	34	27.5	20	-	-	-	-
25	1"	70	237	129	50.5	43.5	26	114	50.5	43.5	22.2
		90	270	129	50.5	43.5	26	114	50.5	43.5	22.2
40	1 ½"	130	351	161	50.5	43.5	38	140	50.5	43.5	34.9
50	2	130	374	192	64.0	56.5	50	159	64	56.5	47.6

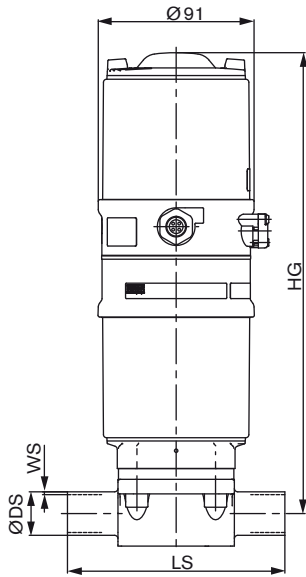
On request: ISO 2852/SMS 3017

Orifice		Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C
[mm]	[inch]						
25	1"	70	237	129	50.5	43.5	22.6
		90	270	129	50.5	43.5	22.6
40	1 ½"	130	351	161	50.5	43.5	35.6
50	2	130	374	192	50.5	56.5	48.6

Dimensions for valve system On/Off ELEMENT Type 8801-DF [mm], *continued*

Dimensions valve system On/Off ELEMENT Type 8801-DF-H (with control head Type 8691)

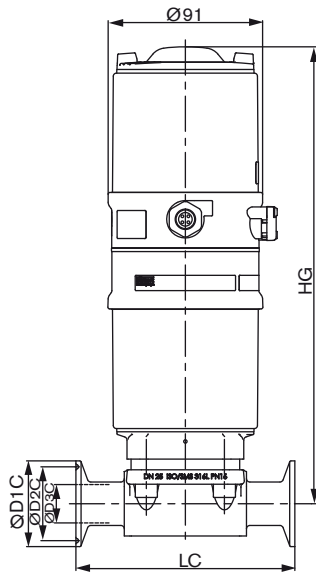
Welded connection



EN ISO 1127/ISO 4200/DIN 11866 S. B and DIN 11850 S. 2/DIN 11866 S. A (SMS 3008 on request)

Orifice		Actuator size Ø	HG	LS	EN ISO 1127/ ISO 4200/ DIN 11866 S. B		DIN 11850 S. 2/ DIN 11866 S. A		SMS 3008 (on request)	
[mm]	[inch]				Ø DS	WS	Ø DS	WS	Ø DS	WS
15	½"	70	257	110	21.3	1.6	19	1.5	-	-
20	¾"	70	267	119	26.9	1.6	23	1.5	-	-
25	1"	70	1270	129	33.7	2.0	29	1.5	25	1.2
		90	303	129	33.7	2.0	29	1.5	25	1.2
40	1 ½"	130	384	161	48.3	2.0	41	1.5	38	1.2
50	2	130	407	192	60.3	2.0	53	1.5	51	1.2

Clamp connection



DIN 32676 Series A and BS 4825/ASME BPE

Orifice		Actuator size Ø	HG	DIN 32676 S. A			BS 4825/ASME BPE				
[mm]	[inch]			LC	Ø D1C	Ø D2C	Ø D3C	LC	Ø D1C	Ø D2C	Ø D3C
15	½"	70	257	110	34	27.5	16	102	25	20.22	16.7
20	¾"	70	267	119	34	27.5	20	-	-	-	-
25	1"	70	1270	129	50.5	43.5	26	114	50.5	43.5	22.2
		90	303	129	50.5	43.5	26	114	50.5	43.5	22.2
40	1 ½"	130	384	161	50.5	43.5	38	140	50.5	43.5	34.9
50	2	130	407	192	64.0	56.5	50	159	64	56.5	47.6

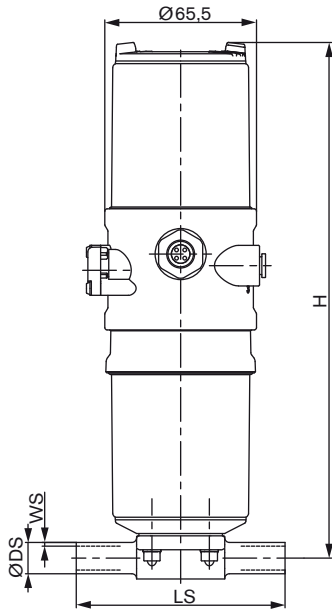
On request: ISO 2852/SMS 3017

Orifice		Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C
[mm]	[inch]						
25	1"	70	270	129	50.5	43.5	22.6
		90	303	129	50.5	43.5	22.6
40	1 ½"	130	384	161	50.5	43.5	35.6
50	2	130	407	192	64.0	56.5	48.6

Dimensions for valve system On/Off ELEMENT Type 8801-DF [mm], *continued*

Dimensions valve system On/Off ELEMENT Type 8801-DF-M (with control head Type 8695)

Welded connection



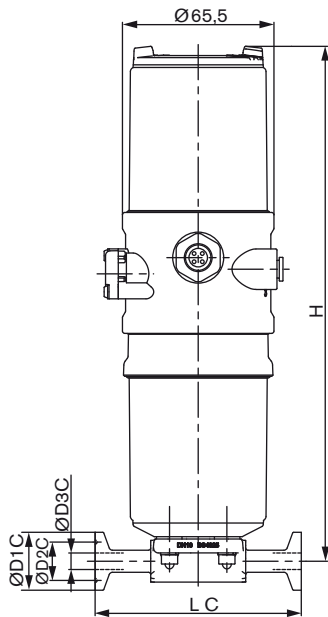
EN ISO 1127/ISO 4200/DIN 11866 Series B and DIN 11850 Series 2/DIN 11866 Series A

Orifice		Actuator size Ø [mm]	H	LS	EN ISO 1127/ ISO 4200/ DIN 11866 S. B		DIN 11850 S. 2/ DIN 11866 S. A	
[mm]	[inch]				Ø DS	WS	Ø DS	WS
08	¼"	50	223	90	13.5	1.6	-	-
10	⅜"	50	223	90	17.2	1.6	13.0	1.5

DIN 11850 Series 0

Orifice		Actuator size Ø [mm]	H	LS	Ø DS	WS
[mm]	[inch]					
04	-	50	223	90	6	1.0
06	-	50	223	90	8	1.0

Clamp connection

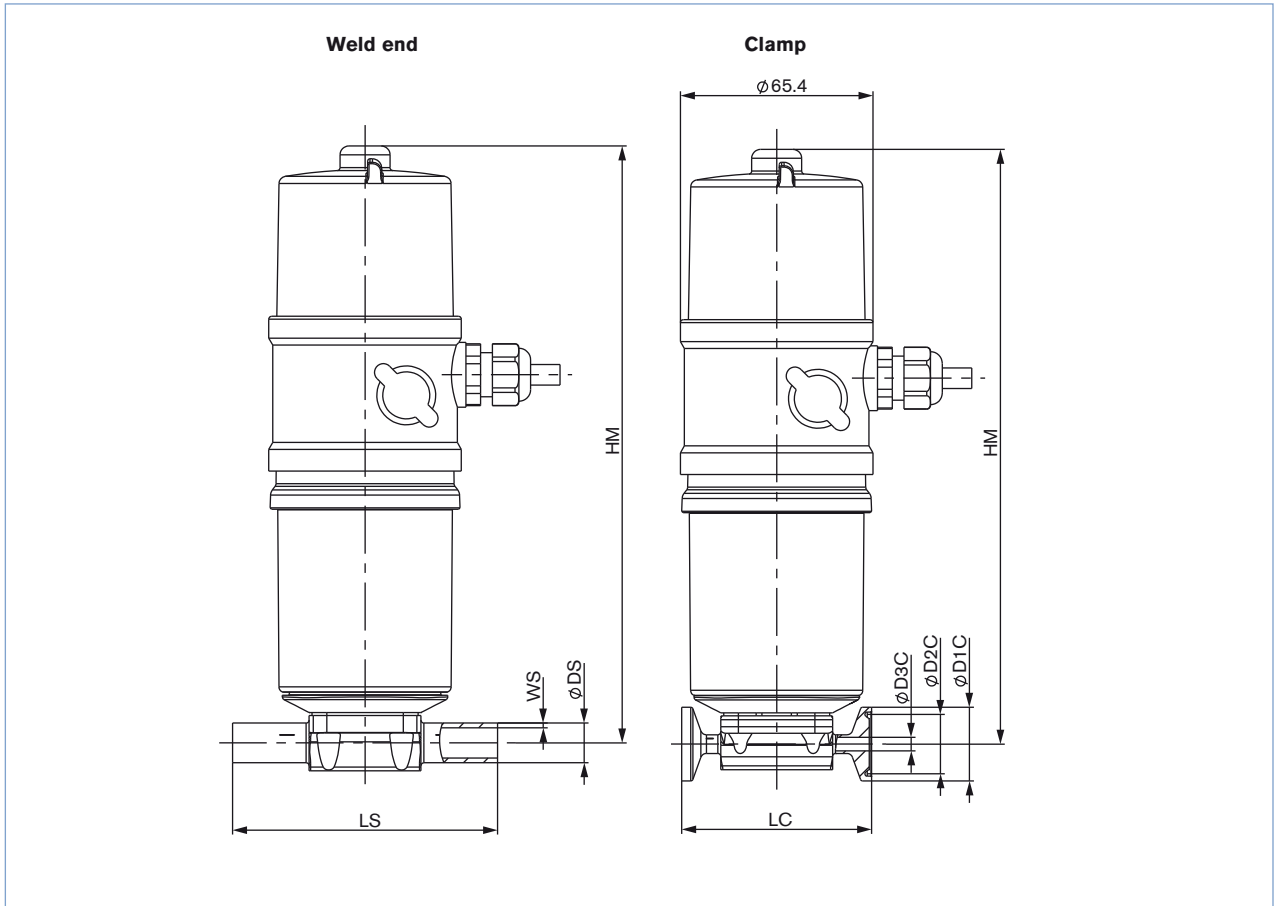


BS 4825

Orifice		Actuator size Ø [mm]	HG	LC	BS 4825		
[mm]	[inch]				Ø D1C	Ø D2C	Ø D3C
8	¼"	50	223	89	25	20.22	7.1
10	⅜"	50	223	89	25	20.22	10.3

Dimensions for valve system On/Off ELEMENT Type 8801 [mm]

Dimensions valve system On/Off ELEMENT Type 8801 with electrical position indicator Type 8697



Port connection [mm]	Actuator size [mm]	Connection [mm]												
		Weld end EN ISO 1127 / ISO 4200 / DIN 11866 / Series B				DIN 11850 Series 2 / DIN 1186 Series A				Clamp		D1C	D2C	D3C
		HM	LS	ØDS	WS	HM	LS	ØDS	WS	HM	LC			
8	50	190.9	90	13.5	1.6	-	-	-	-	190.9	89	25	20.22	7.1
10	50	-	-	-	-	190.9	90	17.2	1.6	190.9	89	25	20.22	10.3

Valve features, specification key - Request for quotation

Example

2103 A 15 AB VG SA42 NO06

Specification key

(Please make a choice)

CONTROL FUNCTION

A	normally closed by spring action
B	normally open by spring action
I	double acting

ORIFICE [mm] (diaphragm)

04
06
08
10
15
20
25
32
40
50

SEAL MATERIAL

AB	EPDM in food quality
AD	EPDM
EA	PTFE/EPDM
FF	FKM
EU	advanced PTFE/EPDM in two pieces

BODY MATERIAL

VG	Cast stainless steel 316L/1.4435
----	----------------------------------

VARIABLE CODES

NO06	Int. Mechanical polished Ra=0.8µm
NO18	Int. Mechanical polished Ra=1.6µm
NO16	Int. Electro polished Ra=0.6µm

Standard



DN [mm]	Port connection weld end							
	EN ISO 1127/ ISO 4200 DIN 11866 S. B	SMS 3008	DIN 11850 S. 0	DIN 11850 S. 1	DIN 11850 S. 2 DIN 11866 S. A	DIN 11850 S. 3	BS4825	ASME BPE DIN 11866 S. C
4			SC40-6.0 × 1.0					
6	SA78-10.2 × 1.6		SC41-8.0 × 1.0					SA89-3.17 × 0.56
8	SA40-13.5 × 1.6		SC42-10.0 × 1.0				SODB-6.35 × 1.2	SA90-6.35 × 0.89
10	SA41-17.2 × 1.6			SF40-12.0 × 1.0	SD40-13.0 × 1.5	SE40-14.0 × 2.0	SODC-9.53 × 1.2	SA91-9.53 × 0.89
15	SA42-21.3 × 1.6	SA58-12.0 × 1.0	SC43-18.0 × 1.5	SF41-18.0 × 1.0	SD42-19.0 × 1.5	SE42-20.0 × 2.0	SODD-12.7 × 1.2	SA92-12.7 × 1.65
20	SA43-26.9 × 1.6	SA59-18.0 × 1.0	SC44-22.0 × 1.5	SF42-22.0 × 1.0	SD43-23.0 × 1.5	SE43-24.0 × 2.0	SODE-19.05 × 1.2	SA93-19.05 × 1.65
25	SA44-33.7 × 2.0	SA60-25.0 × 1.2	SC45-28.0 × 1.5	SF43-28.0 × 1.0	SD44-29.0 × 1.5	SE44-30.0 × 2.0		SODF-25.4 × 1.65
32	SA45-42.4 × 2.0	SA61-33.7 × 1.2	SC46-34.0 × 1.5	SF44-34.0 × 1.0	SD45-35.0 × 1.5	SE45-36.0 × 2.0		
40	SA46-48.3 × 2.0	SA62-38.0 × 1.2	SC47-40.0 × 1.5	SF45-40.0 × 1.0	SD46-41.0 × 1.5	SE46-42.0 × 2.0		SODH-38.1 × 1.65
50	SA47-60.3 × 2.0	SA63-51.0 × 1.2	SC48-52.0 × 1.5	SF46-52.0 × 1.0	SD47-53.0 × 1.5	SE47-54.0 × 2.0		SODI-50.8 × 1.65

DN [mm]	Port connection Clamp				
	Clamp 34.0 like DIN 32676 S. B (ISO-tube (ISO4200))	DIN 32676 S. A (DIN-tube (DIN11850))	DIN 32676 S. B (ISO-tube (ISO4200))	ASME BPE	BS 4825 (Clamp BS 4825-3, tube BS 4825-1)
8	TC51-13.5 × 1.6 Ci: 34.0	TD40-10.0 × 1.0 Ci: 25.0	TC40-13.5 × 1.6 Ci: 25.0	TG 50-6.35 × 0.89 Ci: 25.0	
10	TC41-17.2 × 1.6 Ci: 34.0	TD41-13.0 × 1.5 Ci: 34.0	TC53-17.2 × 1.6 Ci: 25.0	TG 01-9.53 × 0.89 Ci: 25.0	
15	TC42-21.3 × 1.6 Ci: 34.0	TD42-19.0 × 1.5 Ci: 34.0	TC52-21.3 × 1.6 Ci: 50.5	TG 02-12.7 × 1.65 Ci: 25.0	TH42-12.7 × 1.2 Ci: 25.0
20		TD43-23.0 × 1.5 Ci: 34.0	TC43-26.9 × 1.6 Ci: 50.5	TG 03-19.05 × 1.65 Ci: 25.0	TH43-19.05 × 1.2 Ci: 25.0
25		TD44-29.0 × 1.5 Ci: 50.5	TC44-33.7 × 2.0 Ci: 50.5	TG 04-25.4 × 1.65 Ci: 50.5	
40		TD46-41.0 × 1.5 Ci: 50.5	TC46-48.3 × 2.0 Ci: 64.0	TG 05-38.1 × 1.65 Ci: 50.5	
50		TD47-53.0 × 1.5 Ci: 64.0	TC47-60.3 × 2.0 Ci: 77.5	TG 06-50.8 × 1.65 Ci: 64.0	

**Note**  
You can fill out the fields directly in the PDF file before printing out the form.

**Valve system On/Off ELEMENT Type 8801-DF – request for quotation**

▶ Please fill out and send to your nearest Bürkert facility with your inquiry or order\*

Company	Contact person
Customer no.	Department
Address	Tel./Fax
Postcode/town	E-Mail

= mandatory fields to fill out       Quantity       Required delivery date

**Operating data**

Pipe line DN  PN

Pipe material

Process medium

Type of media       Liquid       Steam       Gas

**Valve features**

**Specification key**

**2103**

(automatically transferred from p. 13)





Surface finish (if not standard)      internal  µm      external  µm

Pilot pressure       min.       max.

Atex II 2GD Mechanical     

**Automation unit features**

Click on the orange box "More info"... you will come to our website for the resp. product where you can download the data sheet.

Control Head		Pneumatic Control Unit / Feedback	
<input type="checkbox"/> <b>Type 8691</b> <b>More info.</b> For actuator size Ø 70/90/130 mm  <ul style="list-style-type: none"> <li>Inductive position sensor with automatic Teach function</li> <li>Coloured high power LEDs</li> <li>With/without pilot valve for single or double-acting actuators</li> <li>Fieldbus communication</li> <li>Hygienic stainless steel design</li> </ul> <p><b>Pneumatic function</b></p> <input type="checkbox"/> Single-acting <input type="checkbox"/> Double-acting <input type="checkbox"/> Without pilot valve	<input type="checkbox"/> <b>Type 8695</b> <b>More info.</b> For actuator size Ø 50 mm  <ul style="list-style-type: none"> <li>Inductive position sensor with automatic Teach function</li> <li>Coloured high power LEDs</li> <li>With/without pilot valve for single or double-acting actuators</li> <li>Fieldbus communication</li> <li>Hygienic stainless steel design</li> </ul> <p><b>Electrical connection</b></p> <input type="checkbox"/> Cable gland <input type="checkbox"/> M12 connector	<input type="checkbox"/> <b>Type 8690</b> <b>More info.</b> For actuator size Ø 70/90/130 mm  <ul style="list-style-type: none"> <li>visual status indicator</li> <li>Micro- or proximity switches for end position feedback</li> <li>With/ without pilot valve for single or double-acting actuators</li> <li>Optional intrinsically safe version acc. to ATEX / IECEx</li> </ul> <p><b>Pneumatic function</b></p> <input type="checkbox"/> Single-acting <input type="checkbox"/> Double-acting (only with 8690) <input type="checkbox"/> Without pilot valve	<input type="checkbox"/> <b>Type 8697</b> <b>More info.</b> For actuator size Ø 50 mm  <ul style="list-style-type: none"> <li>visual status indicator</li> <li>Micro- or proximity switches for end position feedback</li> <li>With/ without pilot valve for single or double-acting actuators</li> <li>Optional intrinsically safe version acc. to ATEX / IECEx</li> </ul> <p><b>Number of Position feedback switches</b></p> <input type="checkbox"/> 1x <input type="checkbox"/> 2x
<p><b>Communication</b></p> <input type="checkbox"/> AS-Interface <input type="checkbox"/> DeviceNet <input type="checkbox"/> without	<p><b>Approvals</b></p> <input type="checkbox"/> ATEX cat. 3GD, IECEx <input type="checkbox"/> without	<p><b>Position feedback switches</b></p> <input type="checkbox"/> Micro switch 24 V DC <input type="checkbox"/> Micro switch 50 – 225 V DC/AC (only 8697) <input type="checkbox"/> Inductive switch 3-wire PNP <input type="checkbox"/> Inductive switch 2-wire NAMUR <input type="checkbox"/> Inductive switch 2-wire 24 V DC <input type="checkbox"/> without	<p><b>Electrical connection</b></p> <input type="checkbox"/> Cable gland <input type="checkbox"/> M12 connector
			<p><b>Approvals</b></p> <input type="checkbox"/> ATEX cat. 3GD, IECEx <input type="checkbox"/> ATEX cat. 2DG, IECEx <input type="checkbox"/> without

Continued on next page →

Valve system On/Off Classic Type 8801-DF – request for quotation, *continued*

Certifications
<input type="checkbox"/> Attestation of compliance with the order EN-ISO 10204 2.1 (Article no. 440788)
<input type="checkbox"/> Test report EN-ISO 10204 2.2 (Article no. 803722)
<input type="checkbox"/> Certification of Conformity for Raw Material EN-ISO 10204 3.1 (Included in delivery)
<input type="checkbox"/> FDA and USP compliance

Comment /sketch
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

DTS 1000097547 EN Version: O Status: RL (released | freigegeben | validé) printed: 16.01.2018

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