

Type 2103 can be combined with...



Type 8690 Pneum. control unit with feedback

Type 8691 Control head

The externally piloted diaphragm valve Type 2103 consists of a pneumatically operated piston actuator, a diaphragm and a 2-way valve housing made of cast stainless steel. The highquality 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.

2/2-way Diaphragm Valve with stainless steel design, weld end or clamp connection, DN 4-25

- Hermetical separation of fluids from the operating mechanism by diaphragm
- Zero dead volume
- Various surface finishes
- Certified according to DA
- Clean design for optimal use in hygienic environment









FLUID CONTROL SYSTEMS



Type 8692/8693 Positioner / Process Controller TopControl

Installation

Type 8694 Positioner TopControl Basic

Type 8645 Automation system FreeLINE

Type 8110 Level sensor

Technical data	
Orifice	DN 4 to 25
Body material	Cast stainless steel 316L/1.4435
Actuator material	
Actuator	PPS
Cover	Stainless steel 1.4561 (316Ti)
Diaphragm materials	EPDM, PTFE/EPDM (FKM on request)
Media	Neutral gases and liquids, high purity, sterile, aggressive
	or abrasive fluids
Viscosity	up to viscous
Surface finishes	(average surface finish)
internal mechanical polished	Ra ≤ 0.8 μm
internal electro polished	Ra ≤ 0.6 µm (on request)
internal mechanical polished	Ra ≤ 1.6 µm (on request)
Media temperatures	
EPDM	-10 to +130 °C (briefly up to +150°C for steam sterilisation)
PTFE/EPDM	-10 to +130°C
Ambient temperature	+5 to +60 °C
Control medium	Neutral gases, air
Max. pilot pressure	max. 10 bar
Port connections	
Welded acc.	EN ISO 1127/ISO 4200, DIN 11850 Serie 0 and 2,
	DIN 11850 Serie 3 and SMS 3008 (on request)
Clamp acc.	DIN 32676, BS 4825, ISO 2852/SMS 3017 (on request)
Sterile threaded ports	on request
Pilot air ports	Push-in connector for external ø 6 mm or 1/4" tube,

thread G1/8 (on request)

Content

Valve specifica	itions	System spec. On/Off	ELEMENT	System spec. Continuous	ELEMENT
孎 Туре 2103		 Type 8801-DF		Type 8802-DF	
Technical data & ordering info.	•	Ordering info. & technical data Request for quotation	p. 8-12 p. 13	Ordering info. & technical data Request for quotation	р. 14-18 р. 19

p. 1/19 www.burkert.com

as required, preferably with actuator in upright position



Technical data, continued

Kv-value

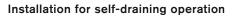
Orifice		Kv value water	Actuator size Ø	Permitted pi [bar]	lot pressure	Max. operating pr for seal material	essure [bar]
[mm]	[inch]	(m³/h)	[mm]	min.	max.	EPDM [bar]	PTFE/EPDM [bar]
4	-	0.8	50	5	10	10	10
6	-	0.8	50	5	10	10	10
8	1/4″	1.0	50	5	10	10	10
10	3/8″	1.0	50	5	10	10	10
15	1/2″	5.5	70	5	10	10	10
20	3/4″	10.0	70	5	10	10	10
25	1″	14.0	70	5	10	6.5	6
			90	5.5	10	10	8

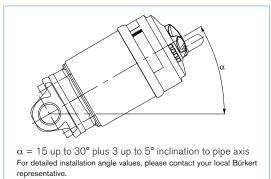
Flow rate: Kv value water (m³/h)

Measured at +20 °C, 1 bar pressure at valve inlet and free outlet.

Pressure values (bar)

Measured as overpressure to the atmospheric pressure.







Ordering chart Type 2103 cast diaphragm valve

Body with weld end, surface finish mechanical polished Ra \leq 0.8/6.3 µm, further versions on request

Control function	Orifice	[inch]	External-Ø [mm]	Kv value water (m³/h)	Actuator size ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	Item no.
	Acc. to E	N ISO 1127	/ISO 4200					
A 2/2-way valve,	Diaphragm	n material EF	MDY					
normally closed (NC)	8	1/4″	13.5	1.0	50	5-10	10	187 239
	15	1/2″	21.3	5.5	70	5-10	10	175 128
	20	3/4″	26.9	10.0	70	5-10	10	175 129
P	25	1″	33.7	14.0	70	5-10	6.5	175 131
					90	5.5-10	10	180 345
	Diaphragm	n material PT	FE/EPDM					
	8	1/4″	13.5	1.0	50	5-10	10	187 240
	15	1/2″	21.3	5.5	70	5-10	10	175 132
	20	3/4″	26.9	10.0	70	5-10	10	175 133
	25	1″	33.7	14.0	70	5-10	6	175 134
					90	5.5-10	8	180 346
	Acc. to D	IN 11850 S	erie 2					
	Diaphragm	n material EF	MD					
	10	3/8″	13	1.0	50	5-10	10	187 243
	15	1/2″	19	5.5	70	5-10	10	176 556
	20	3/4″	23	10.0	70	5-10	10	176 557
	25	1″	29	14.0	70	5-10	6.5	176 558
					90	5.5-10	10	180 349
	Diaphragm	n material PT	FE/EPDM					
	10	3/8″	13	1.0	50	5-10	10	187 244
	15	1/2″	19	5.5	70	5-10	10	176 559
	20	3/4″	23	10.0	70	5-10	10	176 560
	25	1″	29	14.0	70	5-10	6	176 561
					90	5.5-10	8	180 350
	Acc. to D	IN 11850 S	erie 0					
	Diaphragm	n material EF	РМ					
	4	-	6	0.8	50	5-10	10	187 255
	6	-	8	0.8	50	5-10	10	187 256
	Diaphragm	n material PT	FE/EPDM					
	4	-	6	0.8	50	5-10	10	187 257
	6	_	8	0.8	50	5-10	10	187 258

Further versions on request

Material Diaphragm: FKM

Port connection Welded acc. to SMS 3008 ٦.

Additional Surface finish Ra \leq 0.6 µm and further

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



Ordering chart Type 2103 cast diaphragm valve, continued

Body with clamp connection, surface finish mechanical polished Ra \leq 0.8/6.3 µm, further versions on request

	Orifice		ø	: water	r size	[bar]	erating [bar]	
Control function	[m m]	[inch]	External-Ø [mm]	Kv value water (m³/h)	Actuator size ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	ltem no.
	Acc. to D	DIN 32676						
A 2/2-way valve,	Diaphragr	n material EF	PDM					
normally closed (NC) A	15	1/2"	34.0	5.5	70	5-10	10	188 479
	20	3/4"	34.0	10.0	70	5-10	10	188 480
	25	1"	50.5	14.0	70	5-10	6.5	188 481
					90	5.5-10	10	188 482
	Diaphragm	n material PT	FE/EPDM					
	15	1/2"	34.0	5.5	70	5-10	10	188 485
	20	3/4"	34.0	10.0	70	5-10	10	188 486
	25	1"	50.5	14.0	70	5-10	6	188 487
					90	5.5-10	8	188 488
	Acc. to B	S 4825						
	Diaphragm	n material EF	MD					
	8	1/4"	25.0	1.0	50	5-10	10	187 279
	10	3/8"	25.0	1.0	50	5-10	10	187 280
	15	1/2"	25.0	5.5	70	5-10	10	188 527
	25	1"	50.5	14.0	70	5-10	6.5	188 528
					90	5.5-10	10	188 529
	Diaphragm	n material PT	FE/EPDM					
	8	1/4"	25.0	1.0	50	5-10	10	187 281
	10	3/8"	25.0	1.0	50	5-10	10	187 282
	15	1/2"	25.0	5.5	70	5-10	10	188 532
	25	1"	50.5	14.0	70	5-10	6	188 533
					90	5.5-10	8	188 534

Further versions on request

Material Diaphragm: FKM

Port connection

Clamp acc. ISO 2852-SMS 3017

Additional

Surface finish Ra \leq 0.6 μ m and further

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



Approvals

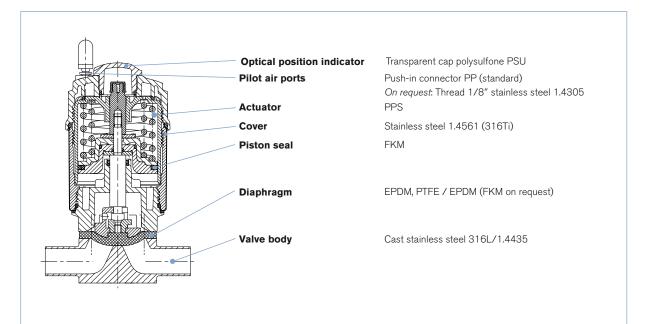
Suitability for foodstuffs / sterile applications



• The composition of the EPDM and PTFE/EPDM diaphragms corresponds to the Code of Federal Regulations, published by the FDA (Food and Drug Administration, USA).

• The EPDM diaphragms correspond to the KTW Recommendation (Plastics in the Drinking Water Sector). A Manufacturer's Declaration will be supplied on request.

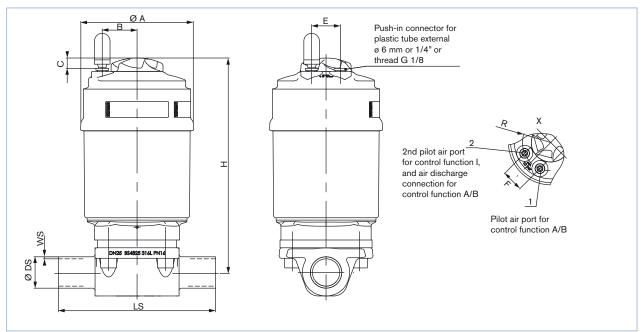
Materials Type 2103 cast diaphragm valve





Dimensions Type 2103 cast diaphragm valve [mm]

Welded body



EN ISO 1127/ISO 4200, DIN 11850 S2

Orifice [mm]	Actuator size Ø [mm]	ØA	в	F	с	R	Е	н	LS	EN ISO 112 Ø DS	7/ ISO 4200 WS	DIN 1185 Ø DS	0 Serie 2 WS
8	50	64.5	17.15	19.8	6.1	17.15	19.8	129	90	13.5	1.6	-	-
10	50	64.5	17.15	19.8	6.1	17.15	19.8	129	90	17.2	1.6	13	1.5
15	70	91	30.5	23.3	8.5	30.5	23.3	161	110	21.3	1.6	19	1.5
20	70	91	30.5	23.3	8.5	30.5	23.3	171	119	26.9	1.6	23	1.5
25	70	91	30.5	23.3	8.5	30.5	23.3	174	129	33.7	2.0	29	1.5
	90	120	30.5	23.3	8.5	30.5	23.3	207	129	33.7	2.0	29	1.5

DIN 11850 S0

Orifice [mm]	Actuator size Ø [mm]	ØA	в	F	с	R	E	н	LS	Ø DS	ws
4	50	64.5	17.15	19.8	6.1	17.15	19.8	129	90	6	1.0
6	50	64.5	17.15	19.8	6.1	17.15	19.8	129	90	8	1.0

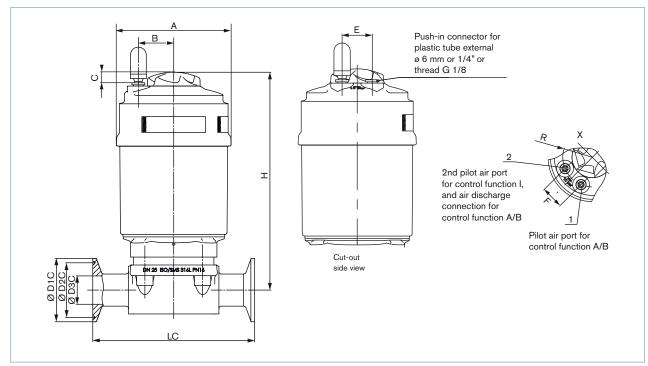
On request: SMS 3008

Orifice												
[mm]	[inch]	[mm]	ØA	В	F	С	R	Е	н	LS	Ø DS	ws
25	1″	70	91	30.5	23.3	8.5	30.5	23.3	174	127	25	1.2
		90	120	30.5	23.3	8.5	30.5	23.3	207	127	25	1.2



Dimensions Type 2103 cast diaphragm valve [mm], continued

Clamp body



DIN 32676 and BS 4825

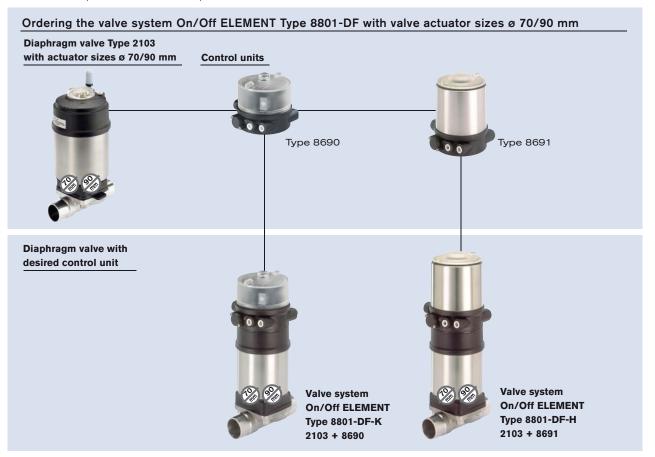
All boo	lies									DIN 3	2676			BS 4825			
Orifice		Actuator size Ø															
[mm]	[inch]	[mm]	ØA	В	F	С	R	Е	н	LC	ØD1C	ØD2C	ØD3C	LC	ØD1C	ØD2C	ØD3C
8	1/4″	50	64.5	17.15	19.8	6.1	17.15	19.8	129	-	-	-	-	89	25	20.22	7.1
10	3/8″	50	64.5	17.15	19.8	6.1	17.15	19.8	144	-	-	-	-	89	25	20.22	10.3
15	1/2″	70	91	30.5	23.3	8.5	30.5	23.3	161	110	34	27.5	16	102	25	20.22	16.7
20	3/4″	70	91	30.5	23.3	8.5	30.5	23.3	171	119	34	27.5	20	-	-	-	-
25	1″	70	91	30.5	23.3	8.5	30.5	23.3	174	129	50.5	43.5	26	114	50.5	43.5	22.2
		90	120	30.5	23.3	8.5	30.5	23.3	207	129	50.5	43.5	26	114	50.5	43.5	22.2

Orifice	•	Actuator size Ø											
[mm]	[inch]	[mm]	ØA	В	F	С	R	E	н	LC	Ø D1C	Ø D2C	Ø D3C
25	1″	70	91	30.5	23.3	8.5	30.5	23.3	174	129	50.5	43.5	22.6
		90	120	30.5	23.3	8.5	30.5	23.3	207	129	50.5	43.5	22.6



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

A valve system On/Off ELEMENT Type 8801-DF consists of a diaphragm valve Type 2103 and a pneumatic control unit Type 8690 or control head Type 8691 (for valve actuator size ø 50 mm) (see separate datasheets). For the configuration of further valve systems please use the "Request for quotation" on p. 13 (go to page) You order two components and receive a complete assembled and certified valve.



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



- Integrated pilot valve with manual actuation
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaptations allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used
- Compact, hygienic design of the valve system with integrated controller meets the demands of plant washdown environments through the selection of materials, external seals and integrated control air supply to the actuator.
- Automatic setting of the control head at the push of a button
- Even under dirty or dark environments, a clearly visible status display due to powerful LEDs
- Monitoring and diagnosis: Process valve systems with field bus interface used in modern plant processes
- Integrated pilot valve with manual actuation
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaptations allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used



Ordering information for valve system On/Off ELEMENT Type 8801-DF, continued

A valve system On/Off ELEMENT Type 8801-DF consists of a diaphragm valve Type 2103 and a pneumatic control unit Type 8690 or control head Type 8691 (for valve actuator size ø 50 mm) or control head Type 8695 (for valve actuator size ø 50 mm) (see separate datasheets). For the configuration of further valve systems please use the "Request for quotation" on p. 13 go to page You order two components and receive a complete assembled and certified valve.



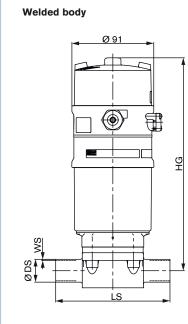
Click on the orange box "More info." below... you will come to our website for the resp. product where you can download the datasheet.





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 [mm]



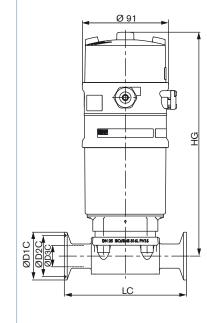
EN ISO 1127/ISO 4200, DIN 11850 S2

Orifice [mm]	Actuator size Ø [mm]	HG	LS	EN ISO 112 Ø DS	27/ ISO 4200 WS	DIN 1185 Ø DS	0 Serie 2 WS
15	70	224	110	21.3	1.6	19	1.5
20	70	234	119	26.9	1.6	23	1.5
25	70	237	129	33.7	2.0	29	1.5
	90	270	129	33.7	2.0	29	1.5

On request: SMS 3008

Orifice		Actuator	HG	LS	Ø DS	WS
[mm]	[inch]	size Ø				
25	1″	70	237	127	25	1.2
		90	270	127	25	1.2

Clamp body



DIN 32676, BS 4825 All bodies **DIN 32676** BS 4825 Orifice Actuator HG LC ØD1C ØD2C ØD3C LC ØD1C ØD2C ØD3C size Ø [mm] [inch] [mm] 224 34 27.5 25 20.22 16.7 15 1/2'70 110 16 102 20 3/4″ 70 234 119 34 27.5 20 25 22.2 1″ 70 237 129 50.5 43.5 26 114 50.5 43.5 90 270 129 50.5 43.5 26 114 50.5 43.5 22.2

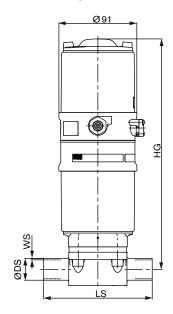
Orifice	•	Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C
[mm]	[inch]	[mm]					
25	1″	70	237	129	50.5	43.5	22.6
		90	270	129	50.5	43.5	22.6



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 [mm]

Welded body



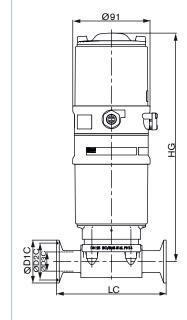
EN ISO 1127/ISO 4200, DIN 11850 S2

EN ISO 11277	ISO 4200, DI	N 11850	52				
Orifice mm]	Actuator size Ø [mm]	HG	LS	EN ISO 112 Ø DS	27/ ISO 4200 WS	DIN 1185 Ø DS	0 Serie 2 WS
15	70	257	110	21.3	1.6	19	1.5
20	70	267	119	26.9	1.6	23	1.5
25	70	270	129	33.7	2.0	29	1.5
	90	303	129	33.7	2.0	29	1.5

On request: SMS 3008

Orifice		Actuator size Ø	HG	LS	Ø DS	WS
[mm]	[inch]	[mm]				
25	1″	70	270	127	25	1.2
		90	303	127	25	1.2

Clamp body



DIN 32676, BS 4825

All boo	lies			DIN 3	2676			BS 4825				
Orifice		Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C	LC	Ø D1C	Ø D2C	Ø D3C	
[mm]	[inch]	[mm]										
15	1/2″	70	257	110	34	27.5	16	102	25	20.22	16.7	
20	3/4″	70	267	119	34	27.5	20	-	-	-	-	
25	1″	70	270	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	

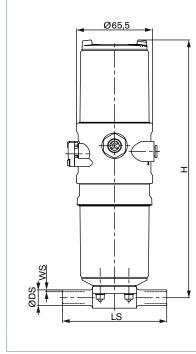
Orifice		Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C
[mm]	[inch]	[mm]					
25	1″	70	270	129	50.5	43.5	22.6
		90	303	129	50.5	43.5	22.6



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 [mm]





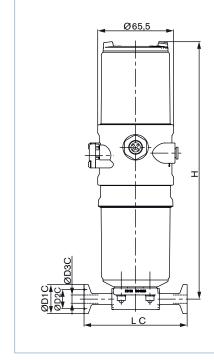
EN ISO 1127/ISO 4200, DIN 11850 S2

Orifice	Actuator size Ø			EN ISO ISO 420		DIN 118 Serie 2	
[mm]	[mm]	н	LS	Ø DS	WS	Ø DS	WS
8	50	223	90	13.5	1.6	-	-
10	50	223	90	17.2	1.6	13	1.5

DIN 11850 S0

Orifice [mm]	Actuator size Ø [mm]	н	LS	ØDS	ws
4	50	223	90	6	1.0
6	50	223	90	8	1.0

Clamp body



BS 4825

Orifice		Actuator					
[mm]	[inch]	size Ø	н	LC	Ø D1 C	Ø D2 C	Ø D3 C
8	1/4″	50	223	89	25	20.22	7.1
10	3/8″	50	223	89	25	20.22	10.3

burkert

Please fill out and send to your nearest Burkert facility" with your inquiry or order		ype 8801-DF -	Request for q	uotation	You car
Control y Outsomer pound Outsomer p	ease fill out and send to your neares	t Bürkert facility*	with your inquir	y or order	the field in the F
Custome ro. defense in the second of the sec	Company		Contact person		before out the
Postcode/town E-mail	Customer no.		Department		Out the
	Address		Tel./Fax		
Operating data Pipe line DN PN Pipe material	Postcode/town		E-mail		
Pipe line DN PN Pipe material	= mandatory fields to fill out	Quantit	у	Required delive	ery date
Pipe material	Operating data				
Process medium	Dipe line D	Ν	PN		
Type of media Liquid Steam Gas Valve features Surface finish internal external Seal material PTFE EPDM FKM Nominal pressure PN	Pipe material				
Valve features Surface finish Seal material PTFE PTFE Common line Drifice DN Type of connection Standard connection Standard connection Standard connection Drifice DN DN C ¹⁰ Other Control function Pilot pressure Pilot pressure Ontrol unit features VW VW Preumatic function Preumatic function Single-acting Double-acting Pilot air ports Preumatic function Single-acting Double-acting Position feedback I x inductive 2x inductive I x inductive (VAMURP) 2x wrechanical Sup Y outage Sup Y outage Quitipol M12 Flat cable clip, 1 m cable DeviceNet	Process medium				
Surface finish internal external Seal material □PTFE EPDM FKM Nominal pressure PN □ Orifice DN □ Type of connection □Threaded Welded Clamp Standard connection □SO DIN other Control function □NC '? NO '? double-acting Pilot pressure min. max. Please specify item no. if known: ''NC: normally closed by spring action; NO: normally open by spring action max. Please specify item no. if known: ''NC: normally closed by spring action; NO: normally open by spring action max. Please specify item no. if known: ''NC: normally closed by spring action; NO: normally open by spring action max. Please specify item no. if known: ''NC: normally closed by spring action; NO: normally open by spring action max. Please specify item no. if known: ''NC: normally closed by spring action; NO: normally open by spring action max. Please specify item no. if known: ''NC: normally closed by spring action; NO: normally closed by spring a	ype of media	Liquid	S	team Gas	
Surface finish internal external Seal material PTFE EPDM FKM Nominal pressure PN					
Seal material PTFE EPDM FKM Nominal pressure PN					
Nominal pressure PN Orifice DN Type of connection I'Nc moreaded Standard connection I'SO Control function NC " Pilot pressure min. "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action "NC: normally closed by spring action; NO: normally open by spring action; "NC: normality closed by spring action; NO: normally open by spring action; "Statistic function Militipol function Presentic function Single-acting Push-in conne	Surface finish		interna	al e	external
Orifice DN Type of connection Threaded Welded Clamp Standard connection ISO DIN other Control function INC ¹⁰ NO ¹⁰ double-acting Pilot pressure min. max. Please specify item no. if known: " NC: normally closed by spring action; NO: normally open by spring action Control unit features " NC: normally closed by spring action; NO: normally open by spring action Control unit features " NC: normally closed by spring action; NO: normally open by spring action Please specify item no. if known: " NC: normally closed by spring action; NO: normally open by spring action Please stress 70/90 mm " NC: control Head Type 8691 Molting closed by spring acting Control Head Type 8695 Preumatic function Pneumatic function Single-acting Double-acting Postion feedback Push-in connector external ø 6mm or 1/4* Thread G 1/8* Communication Tx inductive (NAMUR) 2x inductive Tx inductive (NAMUR) 2x inductive	Seal material	PTFEI	EPDM FKM		
Type of connection Threaded Welded Clamp	Nominal pressure	N			
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Please specify item no. if known: ¹ NC: normally closed by spring action; NO: normally open by spring action Control unit features ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ Nore ¹ NC: normally closed by spring action; NO: normally open by spring action ¹ Presumatic function Pneumatic function ¹ Single-acting Public air ports Public air ports Push-in connector (NAMUR) 1x inductive (NAMUR) 2x inductive (NAMUR) 1x inductive (NAMUR) 2x inductive (NAMUR) 2x mechanical Supply voltage 24 V / DC (ATEX Zone				-octing	
**** NC: normally closed by spring action; NO: normally open by spring action ***** NC: normally closed by spring action; NO: normally open by spring action; ************************************	Pilot pressure			0	max.
Image: Second state of the				0	max.
Image: Second state of the			min.	r	max.
Pneumatic Control Unit Type 8690 More info Control Head Type 8691 More info Pneumatic function Single-acting Double-acting Pneumatic function Single-acting Double-acting Double-acting Double-acting Without pilot valve Pilot air ports Pilot air ports Position feedback Push-in connector external ø 6mm or 1/4" Pilot air ports 1 x inductive (NAMUR) 2x inductive (NAMUR) Communication ASI 1 x mechanical 2x mechanical ASI Multipol M12 2 4 V / DC (ATEX Zone 2/22) Flat cable clip, 1 m cable ASI Push-in connector Thread G 1/8" ASI			min.	r	nax.
Type 8690 info info Pneumatic function Single-acting Double-acting Without pilot valve Double-acting Single-acting Double-acting Position feedback Pulot air ports Pulot air ports Pulot air ports 1 x inductive (NAMUR) 2x inductive (NAMUR) 2x inductive (NAMUR) Communication Thread G 1/8" Supply voltage 24 V / DC (ATEX Zone 2/22) Flat cable clip, 1 m cable Multipol M12 ASI Plot air ports DeviceNet DeviceNet DeviceNet	Please specify item no. if known:		min.	r	max.
Pneumatic function Pneumatic function Pneumatic function Single-acting Double-acting Single-acting Double-acting Without pilot valve Single-acting Double-acting Pilot air ports Position feedback Push-in connector external ø 6mm or 1/4" Pilot air ports 1x inductive 2x inductive Push-in connector external ø 6mm or 1/4" Push-in connector external ø 6mm or 1/4" 1x inductive (NAMUR) 2x inductive (NAMUR) 2x mechanical Communication Thread G 1/8" Supply voltage ASI Multipol M12 ASI ASI Push-in connector Thread G 1/8" DeviceNet ASI Push-in connector Thread G 1/8" ASI	Please specify item no. if known:	¹⁾ NC: normally closed	by spring action; NO: norma	r ally open by spring action	
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Position feedback 1x inductive 2x inductive 1x inductive (NAMUR) 2x mechanical Supply voltage 24 V / DC (ATEX Zone 2/22) Ex ia IIC T6 (ATEX Zone 1) Pilot air ports Pilot air ports Pilot air ports Push-in connector external ø 6mm or 1/4" Pilot air ports Pilot air ports Push-in connector external ø 6mm or 1/4" Pilot air ports Communication ASI Multipol M12 Flat cable clip, 1 m cable DeviceNet Pilot air ports Ex ternal ø 6mm or 1/4"	Please specify item no. if known: Control unit features Image: Specify item no. if known: Image: Specify item no. if known: <t< td=""><td>^{۱)} NC: normally closed کی کی For actuat Control Head Ty</td><td>by spring action; NO: norma or sizes 70/90 mm</td><td>r ally open by spring action For actuator size 50 mi Control Head Type 8695</td><td>m</td></t<>	^{۱)} NC: normally closed کی کی For actuat Control Head Ty	by spring action; NO: norma or sizes 70/90 mm	r ally open by spring action For actuator size 50 mi Control Head Type 8695	m
 1x inductive 1x inductive 2x inductive 1x inductive (NAMUR) 2x inductive (NAMUR) 1x mechanical 2x mechanical ASI Multipol M12 Flat cable clip, 1 m cable DeviceNet DeviceNet 	Please specify item no. if known: Control unit features Image: Specify item no. if known: Image: Specify item no. if known: <t< td=""><td> ¹⁾ NC: normally closed ¹⁾ NC: normally c</td><td>or sizes 70/90 mm</td><td>r ally open by spring action For actuator size 50 mi Control Head Type 8695 Pneumatic function</td><td>m More info.</td></t<>	 ¹⁾ NC: normally closed ¹⁾ NC: normally c	or sizes 70/90 mm	r ally open by spring action For actuator size 50 mi Control Head Type 8695 Pneumatic function	m More info.
Ix inductive (NAMUR) 2x inductive (NAMUR) 1x mechanical 2x mechanical Supply voltage ASI 24 V / DC (ATEX Zone 2/22) Flat cable clip, 1 m cable Ex ia IIC T6 (ATEX Zone 1) Pilot air ports Push-in connector Thread G 1/8"	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Ububle-acting Without pilot valve	 ¹⁾ NC: normally closed ¹⁾ NC: normally c	or sizes 70/90 mm	Image: spring action Image: spring action	m More info.
1x mechanical 2x mechanical Supply voltage 24 V / DC (ATEX Zone 2/22) Ex ia IIC T6 (ATEX Zone 1) Pilot air ports Push-in connector Thread G 1/8" external ø 6mm or 1/4" Communication Communication ASI ASI ASI	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Without pilot valve Position feedback	 ¹⁾ NC: normally closed ¹⁾ NC: normally c	or sizes 70/90 mm be 8691 More info. Double-acting	Image: spring action Image: spring action	m More info.
1x mechanical 2x mechanical ASI Supply voltage ASI 24 V / DC (ATEX Zone 2/22) Flat cable clip, 1 m cable Ex ia IIC T6 (ATEX Zone 1) DeviceNet Pilot air ports DeviceNet Push-in connector Thread G 1/8" external ø 6mm or 1/4"	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Without pilot valve Position feedback	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ Protection ²⁾ Control Head Type ²⁾ Pneumatic function ²⁾ Single-acting ²⁾ Pilot air ports ²⁾ Push-in connector 	or sizes 70/90 mm be 8691 More info. Double-acting	ally open by spring action	m More info.
Supply voltage Image: Multipol M12 24 V / DC (ATEX Zone 2/22) Image: Flat cable clip, 1 m cable Ex ia IIC T6 (ATEX Zone 1) Image: DeviceNet Pilot air ports Image: DeviceNet Push-in connector Thread G 1/8" external ø 6mm or 1/4" Image: Plat cable clip, 1 m cable	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Double-acting Without pilot valve Position feedback 1x inductive 2x inductive (NAMUR) 2x inductive (NAMUR)	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ¹⁾ NC: normally closed ¹⁾ NC: normally closed ¹⁾ Porter actuat ¹⁾ Control Head Type ¹⁾ Pneumatic function ¹⁾ Single-acting ¹⁾ Pilot air ports ¹⁾ Push-in connector ¹⁾ Thread G 1/8" 	or sizes 70/90 mm be 8691 More info. Double-acting	ally open by spring action	m More info.
¹ 24 V / DC (ATEX Zone 2/22) ¹ Flat cable clip, 1 m cable ¹ Ex ia IIC T6 (ATEX Zone 1) ¹ Flat cable clip, 1 m cable ¹ Pilot air ports ¹ DeviceNet ¹ Push-in connector ¹ Thread G 1/8" external ø 6mm or 1/4" ¹ Other actions	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Without pilot valve Position feedback 1x inductive 2x inductive (NAMUR) 2x inductive (NAMUR)	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ Portion actuat ²⁾ Control Head Type ²⁾ Pneumatic function ²⁾ Single-acting ²⁾ Pilot air ports ²⁾ Pilot air ports ²⁾ Push-in connector ²⁾ Thread G 1/8" ²⁾ Communication 	or sizes 70/90 mm be 8691 More info. Double-acting	ally open by spring action	m More info.
Image: Device Net Pilot air ports Push-in connector Thread G 1/8" external ø 6mm or 1/4"	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Double-acting Without pilot valve Position feedback 1x inductive 2x inductive 1x inductive (NAMUR) 2x inductive (NAMUR) 1x mechanical 2x mechanical Supply voltage	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ Protection ²⁾ Control Head Type ²⁾ Pneumatic function ²⁾ Single-acting ²⁾ Pilot air ports ³⁾ Pilot air ports ³⁾ Pilot air ports ⁴⁾ Pilot air po	or sizes 70/90 mm be 8691 More info. Double-acting	ally open by spring action	m More info.
Pilot air ports	Please specify item no. if known: Control unit features Image: Specify item no. if known: Image: Specify item no. if known	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ For actuat ²⁾ Control Head Type ²⁾ Pieumatic function ²⁾ Single-acting ²⁾ Pieumatic function ²⁾ Asi ²⁾ Multipol M12 	by spring action; NO: normative or sizes 70/90 mm be 8691 More info.	ally open by spring action	m More info.
external ø 6mm or 1/4"	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Without pilot valve Position feedback 1x inductive 2x inductive (NAMUR) 2x inductive (NAMUR) 2x mechanical Supply voltage 24 V / DC (ATEX Zone 2/22) Ex ia IIC T6 (ATEX Zone 1)	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ For actuat ²⁾ Control Head Type ²⁾ Pilot air ports ³⁾ Pilot air ports ³⁾ Pilot air ports ⁴⁾ Pilot air	by spring action; NO: normative or sizes 70/90 mm be 8691 More info.	ally open by spring action	m More info.
	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Unit Double-acting Without pilot valve Position feedback 1 x inductive 2 x inductive 1 x inductive (NAMUR) 2 x inductive (NAMUR) 1 x mechanical Supply voltage 24 V / DC (ATEX Zone 2/22) Ex ia IIC T6 (ATEX Zone 1) Plot air ports	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ For actuat ²⁾ Control Head Type ²⁾ Pilot air ports ³⁾ Pilot air ports ³⁾ Pilot air ports ⁴⁾ Pilot air	by spring action; NO: normative or sizes 70/90 mm be 8691 More info.	ally open by spring action	m More info.
	Please specify item no. if known: Control unit features For actuator sizes 70/90 mm Pneumatic Control Unit Type 8690 Pneumatic function Single-acting Unit Double-acting Without pilot valve Position feedback 1x inductive 2x inductive 1x inductive (NAMUR) 2x inductive (NAMUR) 1x mechanical Supply voltage 24 V / DC (ATEX Zone 2/22) Ex ia IIC T6 (ATEX Zone 1) Plot air ports Push-in connector Thread G 1/8"	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ For actuat ²⁾ Control Head Type ²⁾ Pilot air ports ³⁾ Pilot air ports ³⁾ Pilot air ports ⁴⁾ Pilot air	by spring action; NO: normative or sizes 70/90 mm be 8691 More info.	ally open by spring action	m More info.
	Please specify item no. if known: Control unit features Image: Specify item no. if known: Image: Specify item no. if known: <t< td=""><td> ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ For actuat ²⁾ Control Head Type Pneumatic function ²⁾ Single-acting ²⁾ Pilot air ports ³⁾ Pilot air ports ³⁾ Pilot air ports ⁴⁾ Pilot air por</td><td>min. by spring action; NO: norma or sizes 70/90 mm pe 8691 More info.</td><td>ally open by spring action</td><td>m More info. ble-acting a 6mm or 1/4"</td></t<>	 ¹⁾ NC: normally closed ¹⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ NC: normally closed ²⁾ For actuat ²⁾ Control Head Type Pneumatic function ²⁾ Single-acting ²⁾ Pilot air ports ³⁾ Pilot air ports ³⁾ Pilot air ports ⁴⁾ Pilot air por	min. by spring action; NO: norma or sizes 70/90 mm pe 8691 More info.	ally open by spring action	m More info. ble-acting a 6mm or 1/4"

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Ordering information for valve system Continuous ELEMENT Type 8802-DF

A valve system Continuous ELEMENT Type 8802-DF consists of a diaphragm valve Type 2103 and a digital electropneumatic Positioner Type 8692, a digital electropneumatic Process Controller Type 8693 or a digital electropneumatic Positioner Basic Type 8694 (for valve actuator sizes \circ 70/90 mm) or a digital electropneumatic Positioner Basic Type 8696 (for valve actuator size \circ 50 mm) (see separate datasheets). For the configuration of further valve systems please use the "Request for quotation" on p.19 (so to page)

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

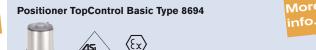


Click on the orange box "More info." below... you will come to our website for the resp. product where you can download the datasheet.



The new generation of integrated positioners/process controllers for combination with actuators from the process valve series Type 23xx/2103 is specially designed for the requirements of hygienic process environments. The easy handling and the selection of additional software functions are done either on a big graphic display with backlight and keypad or via a PC interface. A contact-free analog position sensor registers the valve position without deterioration. Single-acting or double-acting actuators are controlled via the integral positioner system. With Type 8693, the process controller function is superimposed on the position control loop. Profibus DPV1 and DeviceNet communication interfaces are available as options. Main customer benefits:

- Compact design of the valve system with integrated positioner/process controller meets the demands for plant washdown environments through the selection of materials, external seals and integrated control air supply to the actuator
- Extremely simple commissioning and operation thanks to the backlighting of the graphics display and proven multilingual software structure
- Automatic parameterisation of the positioner and process controller using the TUNE functions
- Field bus communication via Profibus DPV1 or DeviceNet
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaption
 Explosion-proof models for zone 2/22



The new generation of integrated positioners for combination with actuators from the process valve series Type 23xx/2103 is specially designed for the requirements of hygienic process environments. The operation and selection of the software functions close tight function, inversion of the operating direction of the setpoint signal, characteristic curves selection and switching manual/automatic operation are effected via push-buttons and DIP switches or via the PC interface. The position setpoint is set using the standard signal 4 - 20 mA. In addition, the enable can be controlled via the binary input and an optional position feedback can be integrated. The positioner, Type 8694, registers the valve position without deterioration through a contact-free analogue position sensor. Single-acting or double-acting actuators are controlled via the integral positioner system. An AS-Interface communication interface is available as an option. Main customer benefits:

- Compact design of the valve system with integrated positioner meets the demands for plant washdown environments through the selection of materials, external seals and integrated control air supply to the actuator
- Automatic parameterisation of the process controller using the Process TUNE function
- Field bus communication via optional AS-Interface
- Air intake filter enhances the process valve system availability
 Simple and reliable actuator adaption allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used
- Explosion-proof models for zone 2/22



Ordering information for valve system Continuous ELEMENT Type 8802-DF, continued

A valve system Continuous ELEMENT Type 8802-DF consists of a diaphragm valve Type 2103 and a digital electropneumatic Positioner Type 8692, a digital electropneumatic Process Controller Type 8693 or a digital electropneumatic Positioner Basic Type 8694 (for valve actuator sizes \circ 70/90 mm) or a digital electropneumatic Positioner Basic Type 8696 (for valve actuator size \circ 50 mm) (see separate datasheets). For the configuration of further valve systems please use the "Request for quotation" on p.19 (so to page)

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



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

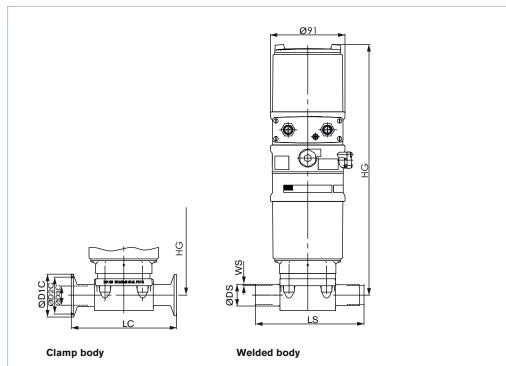


- the demands for plant washdown environments through the selection of materials, external seals and integrated control air supply to the actuator
- Automatic parameterisation of the positioner using the TUNE function
- Simple and reliable actuator adaption
 Explosion-proof models for zone 2/22



Dimensions for valve system Continuous ELEMENT Type 8802-DF [mm]

Dimensions valve system Continuous ELEMENT Type 8802-DF-I with Positioner TopControl Type 8692 and 8802-DF-J with Process Controller TopControl Type 8693 [mm]



Welded body

Orifice	Actuator		EN ISO	EN ISO 1127/ ISO 4200			850 Serie	2	SMS 3008 (on request)		
[mm]	size Ø [mm]	HG	LS	Ø DS	ws	LS	Ø DS	WS	LS	ØDS	WS
15	70	294	110	21.3	1.6	110	19	1.5	-	-	-
20	70	304	119	26.9	1.6	119	23	1.5	-	-	-
25	70	307	129	33.7	2.0	129	29	1.5	127	25	1.2
	90	340	129	33.7	2.0	129	29	1.5	127	25	1.2

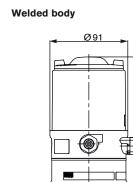
Clamp body

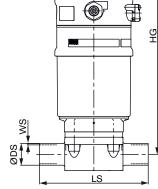
All boo	dies			Il bodies DIN 32676					BS 4825				ISO 2852-SMS 3017 (on request)			
Orifice	•	Actuator size Ø	HG	LC	ØD1C	ØD2C	ØD3C	LC	ØD1C	ØD2C	ØD3C	LC	ØD1C	ØD2C	ØD3C	
[mm]	[inch]	[mm]														
15	1/2″	70	294	110	34	27.5	16	102	25	20.22	16.7	-	-	-	-	
20	3/4″	70	304	119	34	27.5	20	-	-	-	-	-	-	-	-	
25	1″	70	307	129	50.5	43.5	26	114	50.5	43.5	22.2	129	50.5	43.5	22.6	
		90	340	129	50.5	43.5	26	114	50.5	43.5	22.2	129	50.5	43.5	22.6	



Dimensions for valve system Continuous ELEMENT Type 8802-DF [mm], continued

Dimensions valve system Continuous ELEMENT Type 8802-DF-L with Positioner TopControl Basic Type 8694 [mm]





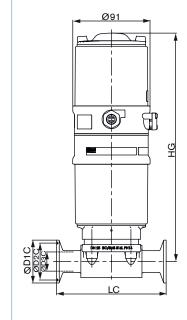
EN ISO 1127/ISO 4200, DIN 11850 S2

Orifice mm]	Actuator size Ø [mm]	HG	LS	EN ISO 112 Ø DS	27/ ISO 4200 WS	DIN 1185 Ø DS	0 Serie 2 WS
15	70	257	110	21.3	1.6	19	1.5
20	70	267	119	26.9	1.6	23	1.5
25	70	270	129	33.7	2.0	29	1.5
	90	303	129	33.7	2.0	29	1.5

On request: SMS 3008

Orifice	Orifice		HG	LS	Ø DS	WS
[mm]	[inch]	[mm]				
25	1″	70	270	127	25	1.2
		90	303	127	25	1.2

Clamp body



DIN 32676, BS 4825

All bodies			DIN 32676				BS 4825				
Orifice		Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C	LC	Ø D1C	Ø D2C	Ø D3C
[mm]	[inch]	[mm]									
15	1/2″	70	257	110	34	27.5	16	102	25	20.22	16.7
20	3/4″	70	267	119	34	27.5	20	-	-	-	-
25	1″	70	270	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

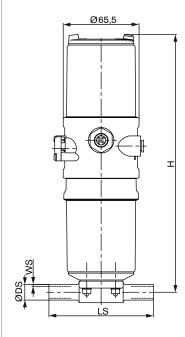
Orifice		Actuator size Ø	HG	LC	Ø D1C	Ø D2C	Ø D3C
[mm]	[inch]	[mm]					
25	1″	70	270	129	50.5	43.5	22.6
		90	303	129	50.5	43.5	22.6



Dimensions for valve system Continuous ELEMENT Type 8802-DF [mm], continued

Dimensions valve system Continuous ELEMENT Type 8802-DF-N with Positioner TopControl Basic Type 8696 [mm]

Welded body



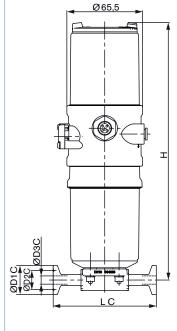
EN ISO 1127/ISO 4200, DIN 11850 S2

Orifice	Actuator size Ø			EN ISO 1127/ ISO 4200		DIN 11850 Serie 2	
[mm]	[mm]	н	LS	Ø DS	WS	Ø DS	WS
8	50	223	90	13.5	1.6	-	-
10	50	223	90	17.2	1.6	13	1.5

DIN 11850 S0

Orifice [mm]	Actuator size Ø [mm]	н	LS	Ø DS	ws
4	50	223	90	6	1.0
6	50	223	90	8	1.0

Clamp body



BS 4825

Orifice [mm]	[inch]	Actuator size Ø	н	LC	Ø D1 C	Ø D2 C	Ø D3 C
8	1/4″	50	223	89	25	20.22	7.1
10	3/8″	50	223	89	25	20.22	10.3

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alve system Continuous ELEMEN				You o the fi
lease fill out and send to your nearest E	Surkert facility		order	in the befo
Company		Contact person		out t
Customer no.		Department		
Address		Tel./Fax		
Postcode/town		E-mail		
mandatory fields to fill out	Quanti	ty	Required delivery of	date
Operating data				
Pipe line DN		PN		
Pipe material				
Process medium				
Type of media	Liquid	Steam	Gas	
	Min	Standard	Max Unit	
Flow rate (Q, Q_N , W) ¹⁾	l			
Temperature at valve inlet T1				
Absolute pressure at valve inlet P1	1			
Absolute pressure at valve outlet P2 ⁱ⁾ standard unit Liquid Q = m³/h; Steam W = Kg/h; Gas QN = Nm	3/h			
Valve features	1711			
Surface finish] internel		
			exter	Ilai
Seal material				
Orifice DN				
Type of connection	Threaded W	/elded Clamp		
Standard connection		IN other		
Control function	NC 2) N	O ²⁾ double-acting		
Please specify item no. if known:		²⁾ NC: normally closed	by spring action; NO: normally open by spri	ng action
Control unit features				
🧭 🐼 For actual	tor sizes 70/90 n	nm	For actuator size 50 m	m
	Basic	oner TopControl More Type 8694 info.	Positioner TopControl Basic Type 8696	More info.
Pneumatic function	Pneumatio	function	Pneumatic function	
Single-acting Double-acting	Single-	acting	Single-acting	
Communication	Pilot air po	orts	Pilot air ports	
Profibus DeviceNet		n connector external	Push-in connector external	
	ø 6 mm		ø 6 mm or 1/4"	
Electrical connection	There - I	or 1/4"	Thread C 1/0"	
	Thread	G 1/8"	Thread G 1/8"	
Electrical connection	Thread Feedback		Feedback	
Electrical connection Cable gland Multipol connection		G 1/8"		
Electrical connection Cable gland Multipol connection Feedback	Feedback	G 1/8"	Feedback	
Electrical connection Cable gland Multipol connection Feedback 4-20 mA 4-20 mA + 2 binary outputs	Feedback	G 1/8"	Feedback	
Electrical connection Cable gland Multipol connection Feedback 4-20 mA 4-20 mA Initiator	Feedback	G 1/8"	Feedback	own:
Electrical connection Cable gland Multipol connection Feedback 4-20 mA 4-20 mA Initiator Initiator	Feedback	G 1/8" A	Feedback	own:
Electrical connection Cable gland Multipol connection Feedback 4-20 mA 4-20 mA Initiator Initiator	Feedback	G 1/8" A	Feedback	own:

In case of special application conditions, please consult for advice. Subject to alteration. © Christian Bürkert GmbH & Co. KG

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