iaphragm Valve with s steel design, weld end or connection, DN 4-50

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

an be combined with...

Type 8692/8693
Positioner/Prozess controller TopControl

Type 8694
Positioner
TopControl Basic

Type 8696
TopControl Basic

Type 8792/8793
Positioner/Process Controller SideControl Remote

Type 8791
Positioner
SideControl BASIC Remote

The externally piloted diaphragm valve type 2103 consists of a plastic body, a plastic 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	
	DN 4 to 50
Body material	Cast stainless steel 316L/1.4435
Actuator material Actuator Cover	PPS Stainless steel 1.4561 (316Ti)
Diaphragm materials	EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU) and FKM (FF) on request
Medium	For neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids
Viscosity	Up to viscous
Surface finish internal mechanical polished (external cast surface) internal electro polished (external cast surface electro polished)	(average surface finish) Ra ≤ 0.8 µm Ra ≤ 0.6 µm (on request)
Medium temperature EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU) FKM (FF)	 -10 to + 130 °C (steam sterilisation +140 °C for 60min) -5 to +143 °C (steam sterilisation +150 °C for 60min) 0 to +130 °C (not recommended for steam)
Ambient temperature	+5 to +60 °C
Control medium	Neutral gases, air
Max. pilot pressure	max. 10 bar; Actuator size 130 mm 7 bar

Content

Valve specifications		 **System Continuous ELEMENT**		**Request for quotation**	
Type 2103 cast Continuous		**Type 8802-DF**		**Type 8802-DF**	
Technical data & ordering info.	p. 1-5	Ordering info. & technical data	p. 6-16		p. 17-18

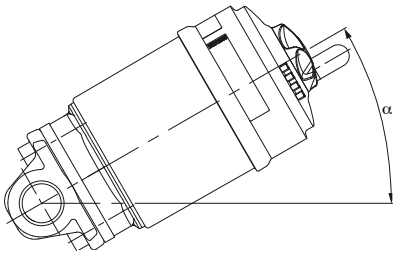
DTS 1000149880

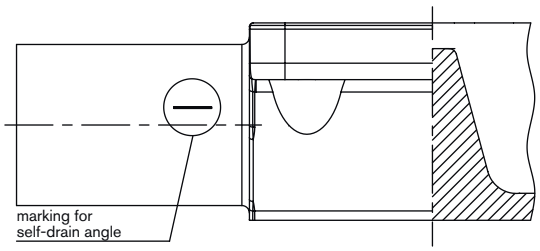
	, 2/SMS 3017 (on request)
	ternal Ø 6 mm or ¼" tube, uest)
	rably with actuator in upright position

		ue water (m³/h)	Actuator size Ø [mm]	Permitted pilot pressure [bar] min.	Permitted pilot pressure [bar] max.	Max. operating pressure [bar] for seal material EPDM, FKM [bar]	Max. operating pressure [bar] for seal material PTFE/EPDM and advanced PTFE/EPDM [bar]
		0,8	50	5	10	10	10
		0,8	50	5	10	10	10
	1/4"	1,0	50	5	10	10	10
	3/8"	1,0	50	5	10	10	10
	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
40	1 1/2"	30,0	130	5	7	10	10
50	2"	51,5	130	5	7	8	7

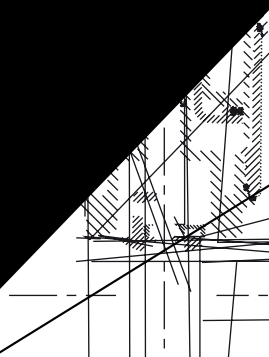
Flow rate: Kv-value water (m³/h)
Measured at +20 °C, 1 bar pressure at valve inlet and free outlet
Pressure values (bar)
Measured as overpressure to the atmospheric pressure

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.

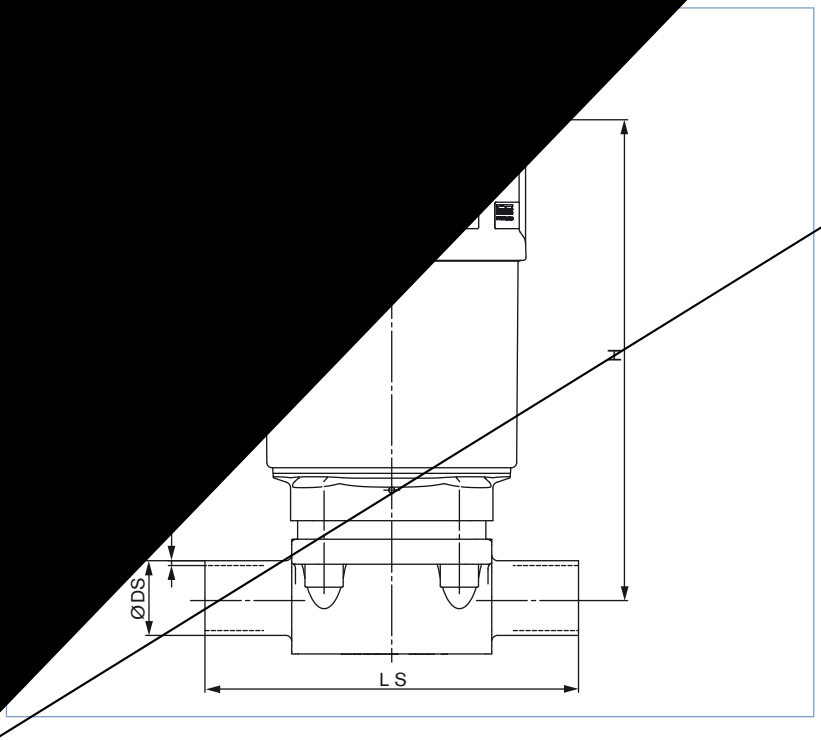


...inal	Stainless steel 1.4301/1.4305 *Only for the ATEX version*
...l position indicator	Transparent cap polysulfone PSU
Pilot air ports	Push-in connector PP (standard) *On request: Thread G1/8" stainless steel 1.4305*
Actuator	PPS
Cover	Stainless steel 1.4561 (316Ti)
Piston seal	FKM
Diaphragm	EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU) and FKM (FF) on request
Valve body	Cast stainless steel 316L/1.4435

Approvals/certifications

...off / sterile applications

- The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA) and advanced ... Code of Federal Regulations, published by the FDA (Food and Drug Administration, USA).
- The composition of the EEPDM (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)
- The Diaphragm valve according to 3-A approved on request (3-A Sanitary Standards Symbol Administrative Council)



EN ISO 1127/ISO 4200, DIN 11850 R2

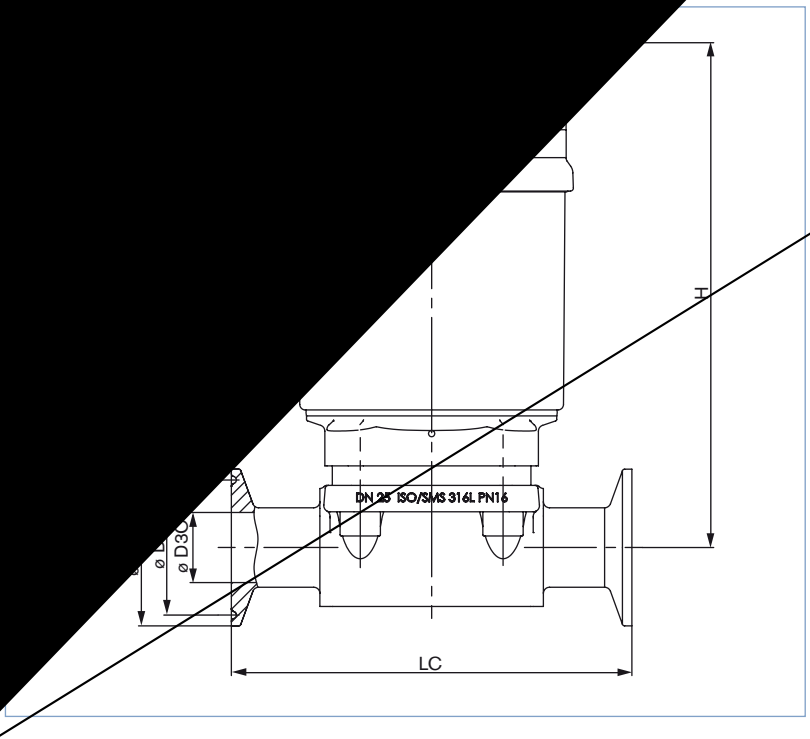
Orifice		Actuator size Ø				EN ISO 1127/ ISO		DIN 11850	
[mm]	[inch]	[mm]	Ø A	H	LS	Ø DS	WS	Ø DS	WS
8	1/4"	50	64,5	119	90	13,5	1,6	–	–
10	3/8"	50	64,5	119	90	17,2	1,6	13	1,5
15	1/2"	70	91	150	110	21,3	1,6	19	1,5
20	3/4"	70	91	160	119	26,9	1,6	23	1,5
25	1"	70	91	163	129	33,7	2,0	29	1,5
		90	120	196	129	33,7	2,0	29	1,5
40	1 1/2"	130	159	277	161	48,3	2,0	41	1,5
50	2"	130	159	300	192	60,3	2,0	53	1,5

DIN 11850 R0

Orifice	Actuator size Ø					
[mm]	[mm]	Ø A	H	LS	Ø DS	WS
4	50	64,5	119	90	6,0	1,0
6	50	64,5	119	90	8,0	1,0

On request: SMS 3008

Orifice		Actuator size Ø	Ø A	H	LS	Ø DS	WS
[mm]	[inch]						
25	1"	70	91	163	129	25	1,2
		90	120	196	129	25	1,2
40	1 1/2"	130	159	277	161	38	1,2
50	2"	130	159	300	192	51	1,2



DIN 32676 and ISO 2852-SMS 3017 (on request)

Orifice		Actuator					DIN 32676	ISO 2852-SMS 3017
[mm]	[inch]	[mm]	H	LC	ØD1C	ØD2C	ØD3C	ØD3C
15	1/2"	70	150	110	34	27,5	16	–
20	3/4"	70	160	119	34	27,5	20	–
25	1"	70	163	129	50,5	43,5	26	22,6
		90	196	129	50,5	43,5	26	22,6
40	1 1/2"	130	277	161	50,5	43,5	38	35,6
50	2"	130	300	192	64	56,5	50	48,6

BS 4825

Orifice		Actuator size Ø		BS 4825			
[mm]	[inch]	[mm]	H	LC	ØD1C	ØD2C	ØD3C
8	1/4"	50	119	89	25	20,22	7,1
10	3/8"	50	119	89	25	20,22	10,3
15	3/4"	70	150	102	25	20,22	16,65
25	1"	70	163	114	50,5	43,5	22,2
		90	196	114	50,5	43,5	22,2
40	1 1/2"	130	277	140	50,5	43,5	34,9
50	2"	130	300	159	64	56,5	47,6

ENT Type 8802-DF

valve Type 2103 and a digital electropneumatic Positioner
electropneumatic Positioner Basic **Type 8694** (below), an electropneu-
) or a digital electropneumatic Positioner **Type 8696** (for valve actuator

st for quotation" on p. 16 go to page

id certified valve.

	ntroller rol	Positioner TopControl		
	cess Controller ype 8693	Positioner Type 8692	Positioner Basic Type 8694	Positioner Basic Type 8696
ve System Continuous LEMENT				
	Type 8802-DF-J **2103 + 8693**	**Type 8802-DF- I** **2103 + 8692**	**Type 8802-DF- L** **2103 + 8694**	**Type 8802-DF- L** **2103 + 8694**

A detailed description of the positioner and process controllers is on the next page. →

bürkert

or integrated mounting on the pneumatic actuators of Type 23XX/2103 process valve series
hygienic process environment. With the help of Tune functions the initialization of process control-
y. The easy handling and the selection of additional software functions and parameter setting are done
eypad. The configuration and parameterisation of the controller can also be done through Bürkert COM-

single- and double-acting actuators
system without air consumption in steady state
nctions for valve monitoring
n of the position and process controller via Tune function
ion in case of electrical or pneumatic auxiliary power failure
or DeviceNet fieldbus communication (optional)
d robust hygienic stainless steel design

k and simple commissioning
tuitive and easy operation via graphical display with backlight and keypad
- High plant availability due to high life span of the Actuator boosted by spring chamber ventilation
- Garanteed reliability and predictable maintenance through valve monitoring and diagnosis
- Easy maintenance and process monitoring

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

...ier TopControl BASIC

More info.

Type 8694
Actuator size 70/90/130

...tegrated mounting
... process valve series
...s of an hygienic process
...ons the initialization of posi-
..., The easy handling and the se-
...ions and parameter setting are done
...backlight and keypad. The configuration
...controller can also be done through Bürk-
...tware tool via PC interface.

...tion sensor
...tioning system for single- and double-acting actuators
...amic positioning system with air consumption in steady
...grated diagnostic functions for valve monitoring
...utomatic initialization of the position and process controller via Tune function
- Defined safe position in case of electrical or pneumatic auxiliary power failure
- Profibus DPV1 or DeviceNet fieldbus communication (optional)

Benefits
- Quick and simple commissioning
- Intuitive and easy operation via graphic al display with backlight and keypad
- High plant availability due to high life span of the Actuator boosted by spring chamber ventilation
- Garanteed reliability and predictable maintenance through valve monitoring and diagnosis

More info.

Type 8696
Actuator size 50

The compact Positioner Type 8696 / 8694 is optimised for integrated mounting on the pneumatic actuators of Type 23XX/2103 process valve series and is specially designed for the requirements of an hygienic process environment. Operation and parameterisation are done through push buttons and DIP-switches. The configuration of the controller can also be done through Bürkert COMMUNICATOR software tool via PC interface.

Features
- Contact-free position sensor
- Universal positioning system for single- and double-acting actuators
- Highly dynamic positioning system with out air consumption in steady state
- AS-Interface fieldbus communication (8694)
- Compact and robust hygienic stainless steel design

Benefits
- Simple and safe Start-up through Teach function
- Minimised space requirement in the plant piping for more flexibility in plant design
- High plant availability due to high life span of the actuator boosted by spring chamber ventilation

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

ENT Type 8802-DF, *continued*

valve Type 2103 and a digital electropneumatic Positioner
electropneumatic Positioner Basic **Type 8694** (previous page),
0/90/130 mm) or a digital electropneumatic Positioner Type 8696

st for quotation" on p. 16 go to page

nd certified valve.

Controller
ontrol Remote

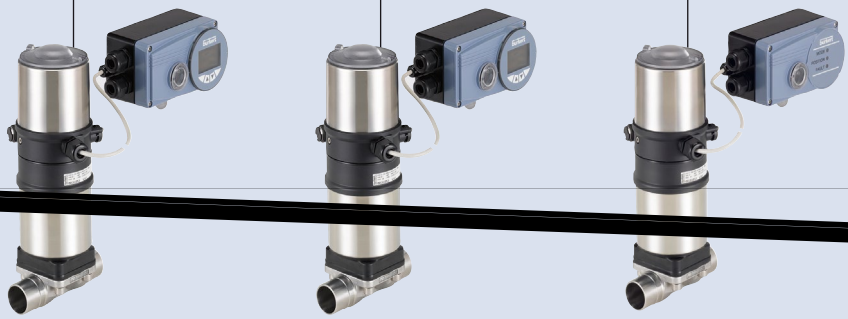
ocess Controller
Type 8793
Remote-Sensor
Type 8798

Positioner
SideControl Remote

Positioner
Type 8792
Remote-Sensor
Type 8798

Positioner BASIC
Type 8791
Remote-Sensor
Type 8798

lve System Continuous
ELEMENT



Type 8802-DF-Q
2103 + 8793 + 8798

Type 8802-DF-P
2103 + 8792 + 8798

Type 8802-DF-O
2103 + 8791 + 8798

A detailed description of the positioner and process controllers is on the next page.

bürkert

gned for assembly with linear and rotary actuators with standardisation acc . to IEC 534-6 or
version with the displacement position sensor is used for controlling Bürkert process control valves.
th backlight. The initialization of the process and position controller can be carried out automatically
trol loop type is automatically recognised and the control structure with its optimum set of parameters are

ngle- and double-acting actuators
for valve monitoring
e position and process controller via Tune function
ng system with air consumption in steady state
y with keypad
DeviceNet fieldbus communication (optional)
obust design
c. to IEC 534-6 or VDI / VDE 3845 for linear and rotary actuators or as remote version for Bürkert process valves

r benefits

- and simple commissioning
- tuitive and easy operation via graphic display with backlight and keypad
- Garanteed reliability and predictable maintainance through valve monitoring and diagnosis
- Easy maintenance and process monitoring
- Long operating lifetime

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

…ier SideControl BASIC Remote

More info.

Positioner Type 8791 with Remote Sensor Type 8798
Actuator sizes 70/90/130

…for assembly with …acc . to IEC 534-6 or …emote version with the …is used for controlling Bürkert …s done on the graphic display …he position controller can be carried …unction.

…with keypad
…g system for single- and double-acting actuators
…positioning system with air consumption in steady …
…diagnostic functions for valve monitoring
…s DPV1 or DeviceNet fieldbus communication (optional)
…mpact and robust design
…daption acc. to IEC 534-6 or VDI / VDE 3845 for linear and rotary actuators or as remote version for Bürkert process valves

Benefits
- Quick and simple commissioning
- Intuitive and easy operation via graphic display with backlight and keypad
- Garanteed reliability and predictable maintainance through valve monitoring and diagnosis
- Long operating lifetime

More info.

Positioner IP20 Type 8791 with Remote Sensor Type 8798
Actuator sizes 70/90/130

The Positioner Type 8791 is designed for assembly with linear and rotary actuators with standardisation acc . to IEC 534-6 or VDI/ VDE for less demanding control tasks. The remote version with the displacement position sensor is used for controlling Bürkert process control valves. All operational elements are inside the casing.

Features
- Simple design
- Universal positioning system for single- and double-acting actuators
- Highly dynamic positioning system with air consumption in steady state
- Adaption acc. to IEC 534-6 or VDI / VDE 3845 for linear and rotary actuators or as remote version for Bürkert process valves
- AS-Interface fieldbus communication (only 8791 BASIC Remote)

Benefits
- Easy Start-up
- Simple device for less demanding control tasks
- Less energy consumption

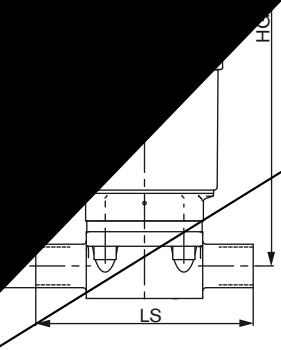
Click on the orange box "More info"… you will come to our website for the resp. product where you can download the data sheet.

8802-DF [mm], *continued*

with Positioner TopControl Basic Type 8694 [mm]

00, DIN 11850 R2

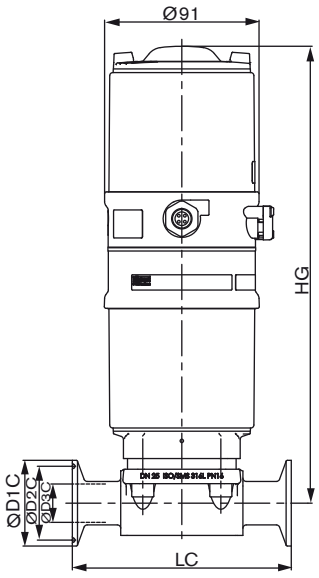
Orifice [mm]	Orifice [inch]	Actuator size Ø [mm]	HG	LS	EN ISO 1127/ ISO 4200 Ø DS	EN ISO 1127/ ISO 4200 WS	DIN 11850 Series 2 Ø DS	DIN 11850 Series 2 WS
		70	254	110	21,3	1,6	19	1,5
		70	264	119	26,9	1,6	23	1,5
		70	267	129	33,7	2,0	29	1,5
		90	300	129	33,7	2,0	29	1,5



On request: SMS 3008

Orifice [mm]	Orifice [inch]	Actuator size Ø [mm]	HG	LS	Ø DS	WS
25	1"	70	267	127	25	1,2
		90	300	127	25	1,2

Clamp connection



DIN 32676, BS 4825

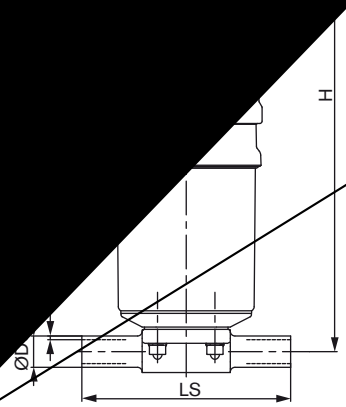
All bodies: Orifice [mm]	All bodies: Orifice [inch]	All bodies: Actuator size Ø [mm]	All bodies: HG	DIN 32676: LC	DIN 32676: Ø D1C	DIN 32676: Ø D2C	DIN 32676: Ø D3C	BS 4825: LC	BS 4825: Ø D1C	BS 4825: Ø D2C	BS 4825: Ø D3C
15	1/2"	70	254	110	34	27,5	16	102	25	20,22	16,7
20	3/4"	70	264	119	34	27,5	20	–	–	–	–
25	1"	70	267	129	50,5	43,5	26	114	50,5	43,5	22,2
		90	300	129	50,5	43,5	26	114	50,5	43,5	22,2

On request: ISO 2852-SMS 3017

Orifice [mm]	Orifice [inch]	Actuator size Ø [mm]	HG	LC	Ø D1C	Ø D2C	Ø D3C
25	1"	70	267	129	50,5	43,5	22,6
		90	300	129	50,5	43,5	22,6

e 8802-DF [mm], *continued*

N with Positioner TopControl Basic Type 8696 [mm]



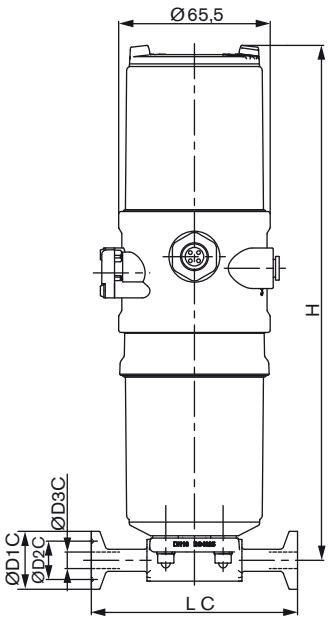
1127/ISO 4200, DIN 11850 R2

ifice [mm]	Actuator size Ø [mm]	H	LS	EN ISO 1127/ ISO 4200 Ø DS	EN ISO 1127/ ISO 4200 WS	DIN 11850 Series 2 Ø DS	DIN 11850 Series 2 WS
8	50	223	90	13,5	1,6	–	–
10	50	223	90	17,2	1,6	13	1,5

DIN 11850 R0

Orifice [mm]	Actuator size Ø [mm]	H	LS	Ø DS	WS
4	50	223	90	6	1,0
6	50	223	90	8	1,0

Clamp connection



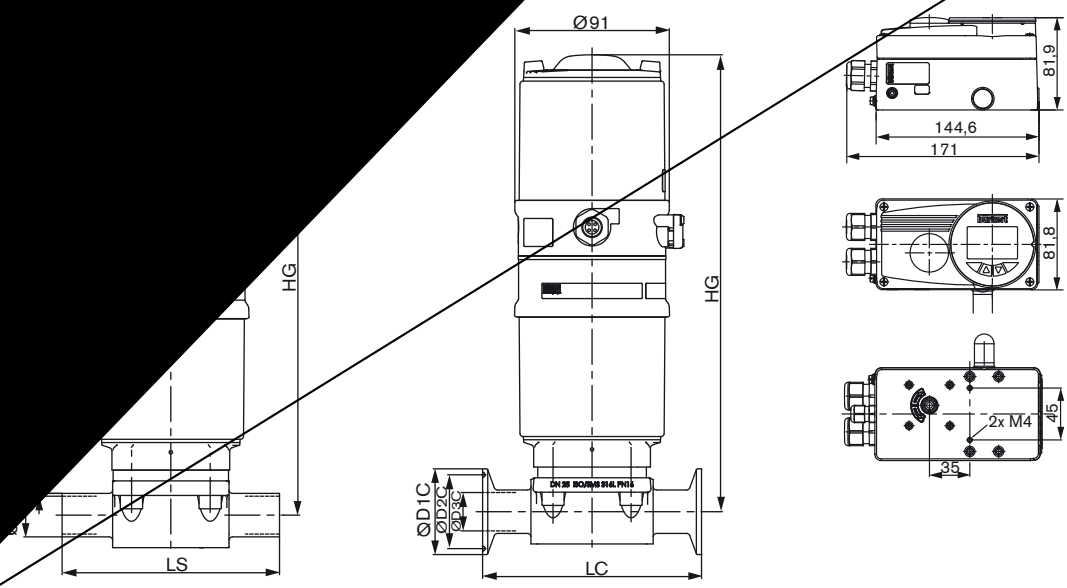
BS 4825

Orifice [mm]	Orifice [inch]	Actuator size Ø [mm]	H	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

e 8802-DF [mm], *continued*

F-P with Positioner SideControl Remote
deControl Remote Type 8793 [mm]

ction



Welde connection

Orifice		Actuator size Ø			EN ISO 1127/		DIN 11850		SMS 3008 (on request)	
[mm]	[inch]	[mm]	HG	LS	Ø DS	WS	Ø DS	WS	Ø DS	WS
15	1/2"	70	254	110	21,3	1,6	19	1,5	–	–
20	3/4"	70	264	119	26,9	1,6	23	1,5	–	–
25	1"	70	267	129	33,7	2,0	29	1,5	25	1,2
		90	300	129	33,7	2,0	29	1,5	25	1,2
40	1 1/2"	130	381	161	48,3	2,0	41	1,5	38	1,2
50	2"	130	404	192	60,3	2,0	53	1,5	51	1,2

Clamp connection

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	254	110	34	27,5	16	102	25	20,22	16,7
20	3/4"	70	264	119	34	27,5	20	–	–	–	–
25	1"	70	267	129	50,5	43,5	26	114	50,5	43,5	22,2
		90	300	129	50,5	43,5	26	114	50,5	43,5	22,2
40	1 1/2"	130	381	161	50,5	43,5	38	140	50,5	43,5	34,9
50	2"	130	404	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]	[mm]					
25	1"	70	267	129	50,5	43,5	22,6
		90	300	129	50,5	43,5	22,6

bürkert

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

quest for quotation

nquiry or order

ontact person

Department

Tel./Fax

E-Mail

Quantity

Required delivery date

DN

PN

Liquid

Steam

Gas

key

ransferred go to page

VG

ace finish (if not standard)

internal µm

external µm

Pilot pressure

min.

max.

Control unit features

Click on the orange ... for the resp. product where you can download the data sheet.

Positioner TopControl

☐ **Type 8692**

More info.

For actuator sizes 70/90/130

- Digital Positioner without sensor input
- Backlit graphical display
- Automatic start-up by Tune function
- Fieldbus communication
- Diagnostic functions

Process Controller TopControl

☐ **Type 8693**

More info.

For actuator sizes 70/90/130

- Intelligent digital Process Controller with integrated PID controller
- Backlit Graphical display
- Tune function for easy Start-up, linearization and optimization of process characteristic
- Fieldbus communication
- Diagnostic functions

Pneumatic function
☐ Single-acting
☐ Double-acting

Analog feedback
☐ 0/4 – 20 mA
☐ 0/4 – 20 mA + 2 Binary outputs

Approval
☐ ATEX cat. 3GD, IECEx
☐ without

Communication
☐ Profibus
☐ DeviceNet
☐ without

Electrical connection
☐ Cable gland
☐ Multi-pin connector

Diagnostic functions[2]
☐ yes
☐ no

Proximity switches (optional)
☐ yes (detection of Endposition)
☐ no

[2] In combination with binary outputs

Continued on next page →

DTS 1000149880

quest for quotation, *continued*

p. product where you can download the data sheet.

Positioner TopControl BASIC

☐ **Type 8696**
For actuator size 50

More info.

g actuators
munication

Analog feedback
☐ yes
☐ no

Approval
☐ ATEX cat. 3GD, IECEx
☐ without

ation
☐ terface (only 8694)
☐ ithout

Electrical connection
☐ Cable gland (only 8694)
☐ M12 Connector

Positioner SideControl Remote

☐ **Type 8792 with Remote-Sensor Type 8798**
For actuator size 70/90/130

More info.

- Digital Positioner
- Backlit graphical display
- Automatic Start-up by Tune function
- Fieldbus communication
- Diagnostic functions

Process Controller SideControl Remote

☐ **Type 8793 with Remote-Sensor Type 8798**
For actuator size 70/90/130

More info.

- Intelligent digital Process Controller with integrated PID-Controller
- Backlit graphical display
- Tune function for automatic Start-up, linearization and optimization of process characteristic
- Fieldbus communication
- Diagnostic functions

Pneumatic function
☐ Single-acting (Actuator size 70/90)
☐ Single- and double-acting (Actuator size 130)

Analog feedback
☐ 0/4 – 20 mA
☐ 0/4 – 20 mA + 2 Binary outputs
☐ 0 – 5/10 V
☐ 0 – 5/10 V + 2 Binary outputs

Zulassung
☐ ATEX cat. 3GD
☐ without

Communication
☐ Profibus
☐ DeviceNet
☐ without

Electrical connection
☐ Cable gland (without fieldbus comm.)
☐ Multi-pin connector

Diagnostic functions[2]
☐ yes
☐ no

[2] In Kombination mit Binärausgängen

quest for quotation, *continued*

☐

itioner SideControl BASIC Remote IP20

☐ **Type 8791 with Remote-Sensor Type 8798** More info.

For actuator sizes 70/90/130

- simple Positioner for cabinet installation
- Universal positioning system for single- and double-acting actuators
- Automatic Start-up by Tune function

nd double-acting actuators

☐ sizes 70/90)
☐ acting (Actuator size 130)

Analog Feedback
☐ 0/4 – 20 mA
☐ without

Approval
☐ ATEX cat. 3GD (only 8791 BASIC Remote)
☐ without

on
☐ face (only 8791 BASIC Remote)
☐ og profile S-7.3.4 (only setpoint)
☐ Analog profile S-7.A.5 (setpoint and feedback)
☐ without

Electrical connection
☐ Cable gland (without fieldbus comm.)
☐ Multi-pin connector

Certifications

☐ Attestation of compliance with the order EN-ISO 10204 2.1 (Article no. 440788)
☐ Test report EN-ISO 10204 2.2 (Article no. 803722)
☐ Certification of Conformity for Raw Material EN-ISO 10204 3.1 (Article no. 803723)
☐ EN161 (European Gas Device guideline)
☐ FDA - USP certificate

Comment / sketch

Continued on next page →

DTS 1000149880

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SA42 | NO06

VARIABLE CODES

Surface finish, internal		
NO06	mechanical polished Ra=0,8 µm	*Standard*
NO16	electro polished Ra=0,6 µm	

RIAL

	in food quality
	DM
	PTFE/EPDM
	FKM
EU	advanced PTFE/EPDM in two pieces

BODY MATERIALS

VG	Cast stainless steel 316L/1,4435

PORT CONNECTION

Welded connection

Port conn. [mm]	EN ISO 1127/ ISO 4200	SMS 3008	DIN 11850 Series 0	DIN 11850 Series 1	DIN 11850 Series 2	BS 4825	ASME BPE	JIS Sanitary	JIS Utility
4			SC40=6x1,0						
6			SC41=8x1,0						
8	SA40=13,5x1,6		SC42=10x1,0			SODB=6,35x1,2	SA90=6,35x0,89	SA70=13,8x1,65	
10	SA41=17,2x1,6			SF40=12x1,0	SD40=13x1,5	SODC=9,53x1,2	SA91=9,53x0,89	SA71=17,3x1,65	
15	SA42=21,3x1,6			SF41=18x1,0	SD42=19x1,5	SODD=12,7x1,2	SA92=12,7x1,65	SA72=21,7x2,1	
20	SA43=26,9x1,6			SF42=22x1,0	SD43=23x1,5	SODE=19,05x1,2	SA93=19,05x1,65	SA76=27,2x2,1	SA80=27,2x2,1
25	SA44=33,7x2,0	SA60=25,0x1,2		SF43=28x1,0	SD44=29x1,5	SODF=25,4x1,65	SODF=25,4x1,65	SA73=25,4x1,2	SA81=34x2,0
32	SA45=42,4x2,0			SF44=34x1,0	SD45=35x1,5				SA83=42,7x2,0
40	SA46=48,3x2,0	SA62=38,0x1,2		SF45=40x1,0	SD46=41x1,5	SODH=38,1x1,65	SODH=38,1x1,65	SA74=38,1x1,2	SA84=60,5x2,0
50	SA47=60,3x2,0	SA63=51,0x1,2		SF46=52x1,0	SD47=53x1,5	SODI=50,8x1,65	SODI=50,8x1,65	SA75=50,8x1,5	

Welded connection

Port conn. [mm]	ISO 2852 SMS 3017	BS4825	DIN 32676
8	TC51=Clamp 34 – for tube ISO 4200	TG41=Clamp 25 – tube 9,53x1,2	
10	TC41=Clamp 34 – for tube ISO 4200	TH42=Clamp 25 – tube 12,7x1,2	TD41=Clamp 34 – tube 13x1,5
15	TC42=Clamp 34 – for tube ISO 4200	TH43=Clamp 25 – tube 19,05x1,2	TD42=Clamp 34 – tube 19x1,5
20	TC43=Clamp 50,5 – for tube ISO 4200		TD43=Clamp 34 – tube 23x1,5
25	TC44=Clamp 50,5 – for tube ISO 4200	TG44=Clamp 50,5 – tube 25,4x1,65	TD44=Clamp 50,5 – tube 29x1,5
40	TC46=Clamp 64 – for tube ISO 4200	TG45=Clamp 50,5 – tube 38,1x1,65	TD46=Clamp 50,5 – tube 41x1,5
50	TC47=Clamp 77,5 – for tube ISO 4200	TG46=Clamp 64 – tube 50,8x1,65	TD47=Clamp 64 – tube 53x1,5

In case of special application conditions, please consult for advice