bürkert
FLUID CONTROL SYSTEMS

2/2-way-Globe Valve with stainless steel design for media up to +180°C, DN 13-50

- High cycle life
- Flow optimised body in stainless steel 316L
- Deliverable with flow direction below or above seat
- Clean design for optimal use in hygienic environment

Type 2101 can be combined with…

Type 8690
Pneum. control unit with feedback

Type 8691
Control Head

Type 8695
Control Head

Type 8645
Automation system FreeLINE

Type 8222
Conductivity transmitter

In line with Bürkert's philosophy for modular valves and sensors the construction of the 2101 globe valve fulfils tough criteria for process environments. Unrivalled cycle life and sealing integrity is guaranteed by the proven self adjusting packing gland.

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	
Orifice	DN 15 to 50
Port connection Flange connection acc. to Welded and threaded ports	 DIN EN 1092-1, ANSI B 16.5, JIS 10K on request
Body materials	Cast stainless steel 316L
Actuator material Actuator Cover	 PPS Stainless steel 1.4561 (316Ti)
Seal material	PTFE
Media	Water, alcohol, oils, fuel, hydraulic fluids, salt solution, alkali solutions, organic solvents, steam
Viscosity	max. 600 mm²/s
Packing gland	PTFE V-rings with spring compensation
Media temperature	-10 to +180 °C
Ambient temperature	0 to +60 °C
Control medium	Neutral gases, air
Max. pilot pressure	max. 10 bar
Pilot air ports	Push-in connector for external ø 6 mm or 1/4" tube, Thread G 1/8 (on request)
Installation	As required, preferably with actuator upright

Content

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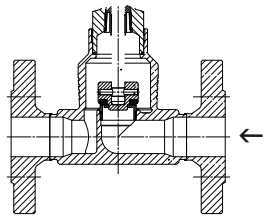
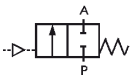
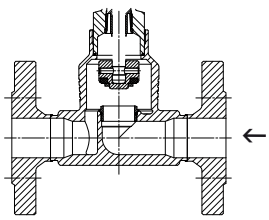
Technical data Type 2101 Globe Valve, flow direction below seat (for gas and liquid)



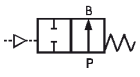
Control function A



Normally closed by spring action



On request:
Control function B



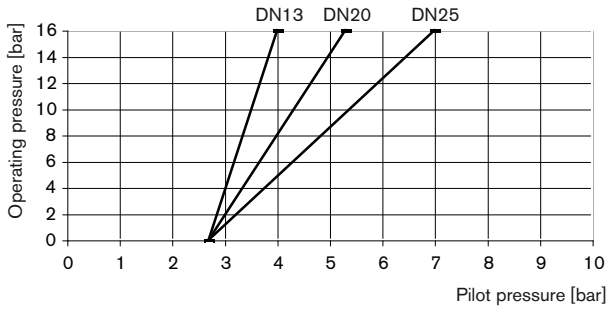
normally open by spring action

Orifice [mm]	Actuator size [mm]	Kv value water (m^3/h)	Minimum pilot pressure CFA [bar]	Max. operating pressure to +180° CFA [bar]	On request: CFB [bar]
15	50	4.7	4.8	25	16
	70	4.7	4.8	25	16
20	50	8.1	4.8	13	16
	70	8.1	4.8	20	16
25	50	13	4.8	6	16
	70	13	4.8	16	16
32	70	19.5	4.8	8.5	16
	90	19.5	5.0	16	16
40	70	31	4.8	6	16
	90	31	5.0	16	16
50	70	45	–	–	16
	90	45	5.0	10	16

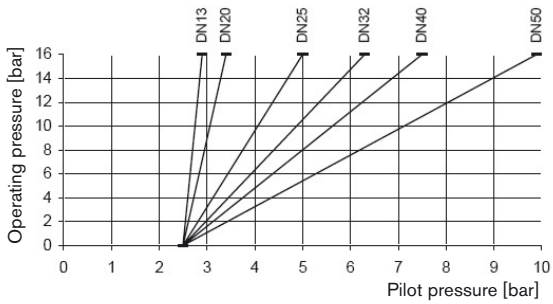
Flow rate: *Kv value water [m^3/h]*: Measured at +20 °C, 1 bar pressure at valve inlet and free outlet.
Pressure valves [bar]: Overpressure to the atmospheric pressure

On request control function B:
Pressure charts with control function B and flow direction below the seat

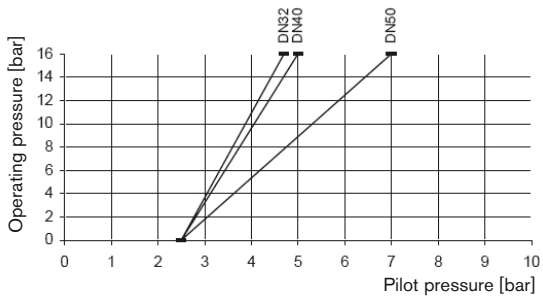
Actuator size 50 mm



Actuator size 70 mm



Actuator size 90 mm



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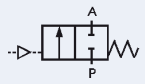
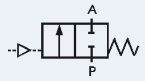
Ordering chart Type 2101 Globe Valve, flow direction below seat (for gases and liquid)

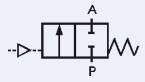
Flange connection acc. to DIN EN 1092-1, flow direction below seat

Control function	Orifice (mm)	Actuator size Ø (mm)	Minimum pilot pressure (bar)	Operating pressure to +180°C (bar)	Item no.
A 2/2-way-valve, NC 	15	50	4.8	25	203 076
	20	50	4.8	13	203 077
	20	70	4.8	20	203 078
	25	50	4.8	6	203 079
	25	70	4.8	16	189 700
	32	70	4.8	8.5	203 080
	32	90	5.0	16	203 081
	40	70	4.8	6	203 082
	40	90	5.0	16	203 083
	50	90	5.0	10	203 084

Flange connection acc. to ANSI B16.5, flow direction below seat

Control function	Orifice (mm)	Actuator size Ø (mm)	Minimum pilot pressure (bar)	Operating pressure to +180°C (bar)	Item no.
A 2/2-way-valve, NC 	15	50	4.8	25	203 095
	20	50	4.8	13	203 096
	20	70	4.8	20	203 097
	25	50	4.8	6	203 098
	25	70	4.8	16	203 099
	40	70	4.8	6	203 100
	40	90	5.0	16	203 101
	50	90	5.0	10	203 102

Flange connection acc. to JIS 10K, flow direction below seat

Control function	Orifice (mm)	Actuator size Ø (mm)	Minimum pilot pressure (bar)	Operating pressure to +180°C (bar)	Item no.
A 2/2-way-valve, NC 	15	50	4.8	25	203 111
	20	50	4.8	13	203 112
	20	70	4.8	20	203 113
	25	50	4.8	6	203 114
	25	70	4.8	16	203 115
	40	70	4.8	6	203 118
	40	90	5.0	16	203 121
	50	90	5.0	10	203 122

Further versions on request

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

Port connection
Welded and threaded ports

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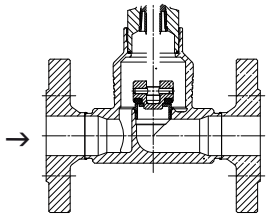
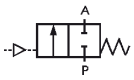
Technical data Type 2101 Globe Valve, flow direction above the seat (for gases and steam)



Control function A



Normally closed by spring action

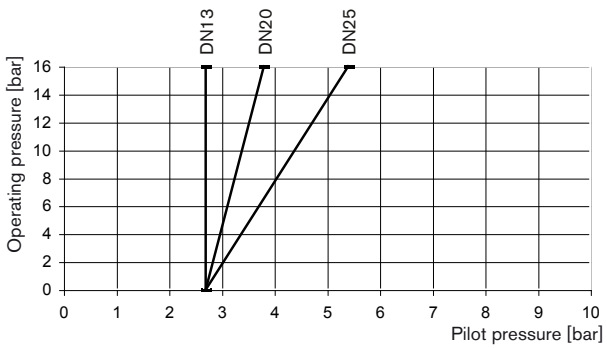
Attention!
Valves with flow direction above the seat are only conditionally usable for liquid media . There is a danger of waterhammer!

Orifice [mm]	Actuator size [mm]	Kv value water (m^3/h)	Max. operating pressure to +180° CFA [bar]
15	50	4.7	16
	70	4.7	16
20	50	8.1	16
	70	8.1	16
25	50	13	16
	70	13	16
32	70	19.5	16
40	70	31	16
	90	31	16
50	70	45	12
	90	45	16

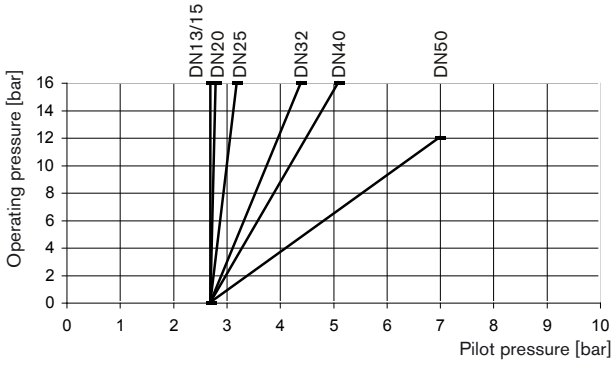
Flow rate: *Kv value water [m^3/h]*: Measured at +20 °C, 1 bar pressure at valve inlet and free outlet.
Pressure valves [bar]: Overpressure to the atmospheric pressure

Pressure charts with control function A and flow direction above the seat

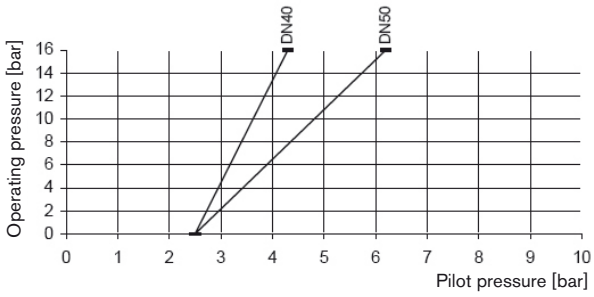
Actuator size 50 mm



Actuator size 70 mm



Actuator size 90 mm



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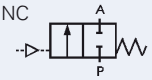
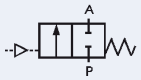
Ordering chart Type 2101 Globe Valve, flow direction above the seat (for gases and steam)

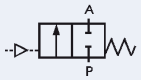
Flange connection acc. to DIN EN 1092-1, flow direction above the seat

Control function	Orifice (mm)	Actuator size Ø (mm)	Minimum pilot pressure (bar)	Operating pressure to +180°C (bar)	Item no.
A 2/2-way-valve, NC 	15	50	see charts on page 4	16	203 086
	20	50		16	203 087
	25	50		16	203 088
	32	70		16	203 091
	40	70		16	203 092
	50	70		12	204 973
	50	90		16	203 094

Flange connection acc. to ANSI B16.5, flow direction below seat

Control function	Orifice (mm)	Actuator size Ø (mm)	Minimum pilot pressure (bar)	Operating pressure to +180°C (bar)	Item no.
A 2/2-way-valve, NC 	15	50	see charts on page 4	16	203 103
	20	50		16	203 104
	25	50		16	203 105
	40	70		16	203 107
	50	70		12	204 974
	50	90		16	203 109

Flange connection acc. to JIS 10K, flow direction below seat

Control function	Orifice (mm)	Actuator size Ø (mm)	Minimum pilot pressure (bar)	Operating pressure to +180°C (bar)	Item no.
A 2/2-way-valve, NC 	15	50	see charts on page 4	16	203 123
	20	50		16	203 124
	25	50		16	203 125
	40	70		16	203 127
	50	70		12	204 975
	50	90		16	203 129

Further versions on request

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

Port connection
Welded and threaded ports

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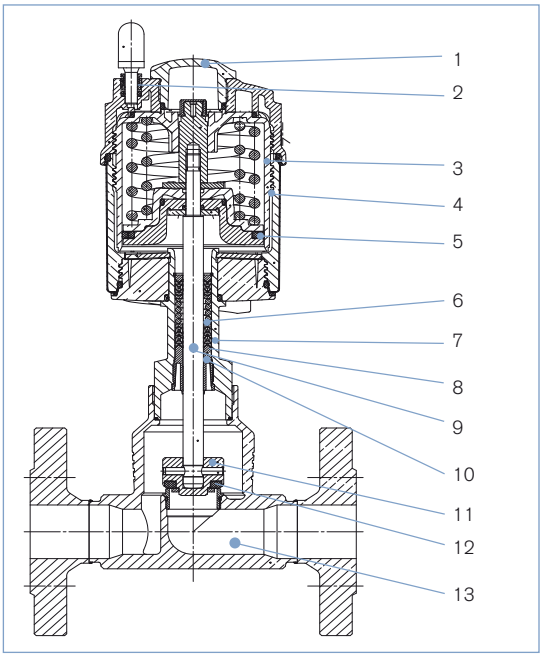
Materials Type 2101 Globe Valve



1	**Visual position indicator**	Transparent cap polysulphone PSU
2	**Pilot air ports**	Push-in connector PP (standard) *On request:* Thread G 1/8" stainless steel 1.4305
3	**Actuator**	PPS
4	**Cover**	Stainless steel 1.4561 (316Ti)
5	**Piston seal**	FKM
6	**Spring**	Stainless steel 1.4310
7	**Tube**	Stainless steel 1.4401 (316) (1.4404 (316L) on request)
8	**V-sealing**	PTFE
9	**Spindle**	Stainless steel 1.4401 (316) (1.4404 (316L) on request)
10	**Wiper**	PEEK
11	**Swivel plate**	Stainless steel 1.4401 (316) (1.4404 (316L) on request)
12	**Seal**	PTFE
13	**Valve body**	Cast stainless steel 316L

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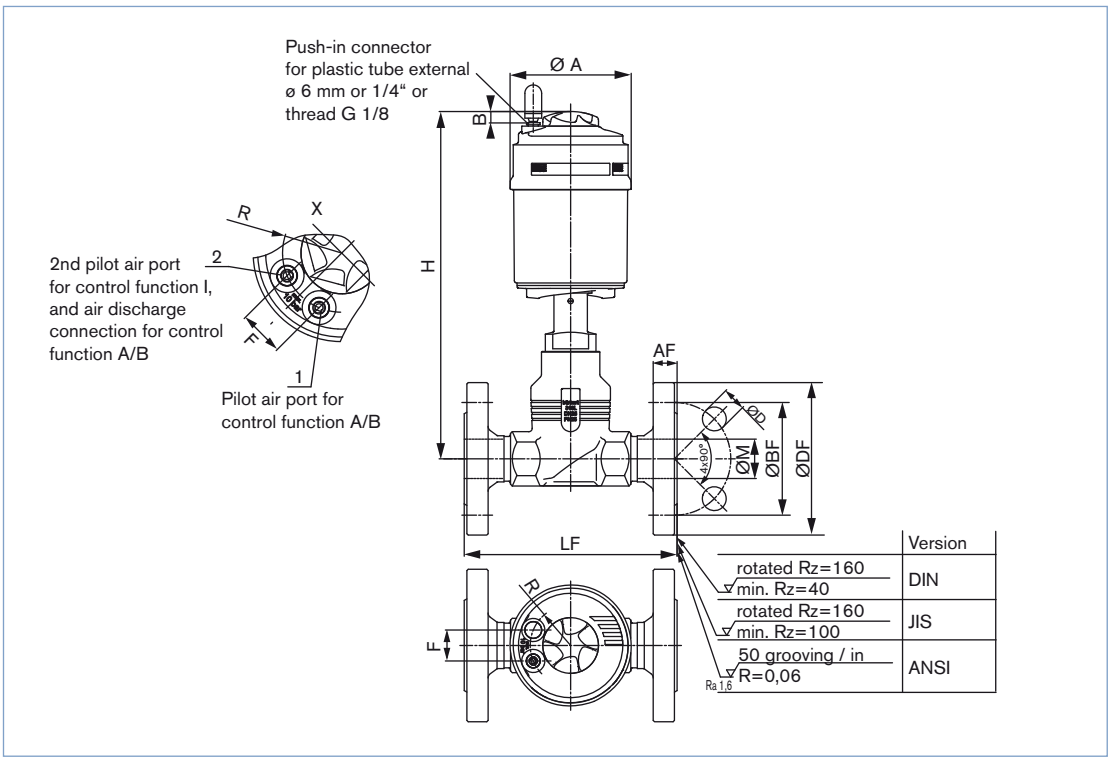
Dimensions Type 2101 Globe Valve [mm]

Flanged body



DIN EN 1092, JIS 10K

Orifice [mm]	Actuator size [mm]	ØA	B	F	H	R	DIN EN 1092						JIS 10K					
							ØDF	LF	ØBF	AF	ØD	ØM						
10	50	64.5	6	19.8	236	19.8	90	130	60	16	14	13.6	–	–	–	–	–	–
	70	91	8.5	23.3	250	30.5	90	130	60	16	14	13.6	–	–	–	–	–	–
15	50	64.5	6	19.8	236	19.8	95	130	65	16	14	18.1	95	108	70	12	15	18.1
	70	91	8.5	23.3	250	30.5	95	130	65	16	14	18.1	95	108	70	12	15	18.1
20	50	64.5	6	19.8	242	19.8	105	150	75	18	14	23.7	100	117	75	14	15	23.7
	70	91	8.5	23.3	256	30.5	105	150	75	18	14	23.7	100	117	75	14	15	23.7
25	50	64.5	6	19.8	249	19.8	115	160	85	18	14	29.7	125	127	90	14	19	29.7
	70	91	8.5	23.3	263	30.5	115	160	85	18	14	29.7	125	127	90	14	19	29.7
32	70	91	8.5	23.3	283	30.5	140	180	100	18	18	38.4	135	140	100	16	19	38.4
	90	120	8.5	23.3	340	30.5	140	180	100	18	18	38.4	135	140	100	16	19	38.4
40	70	91	8.5	23.3	288	30.5	150	200	110	18	18	44.3	140	165	105	16	19	44.3
	90	120	8.5	23.3	345	30.5	150	200	110	18	18	44.3	140	165	105	16	19	44.3
50	70	91	8.5	23.3	299	30.5	165	230	125	20	18	56.3	155	203	120	16	19	56.3
	90	120	8.5	23.3	352	30.5	165	230	125	20	18	56.3	155	203	120	16	19	56.3

ANSI B 16.5

Orifice [inch]	Actuator size [mm]	ØA	B	F	H	R	ØDF	LF	ØBF	AF	ØD	ØM
1/2”	50	64.5	6	19.8	236	19.8	89	184	60.5	11.2	15.7	15.7
	70	91	8.5	23.3	250	30.5	89	184	60.5	11.2	15.7	15.7
3/4”	50	64.5	6	19.8	242	19.8	99	184	69.9	12.7	15.7	20.8
	70	91	8.5	23.3	256	30.5	99	184	69.9	12.7	15.7	20.8
1”	50	64.5	6	19.8	249	19.8	108	184	79.2	14.2	15.7	26.7
	70	91	8.5	23.3	263	30.5	108	184	79.2	14.2	15.7	26.7
1 1/2”	70	91	8.5	23.3	288	30.5	127	222	98.6	17.5	15.7	40.9
	90	120	8.5	23.3	345	30.5	127	222	98.6	17.5	15.7	40.9
2”	70	91	8.5	23.3	299	30.5	152	254	120.7	19.1	19.1	52.6
	90	120	8.5	23.3	352	30.5	152	254	120.7	19.1	19.1	52.6

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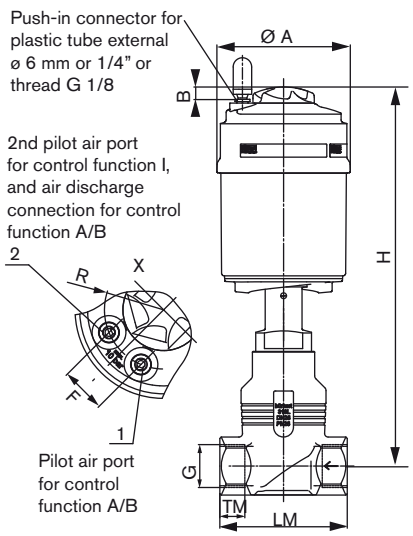
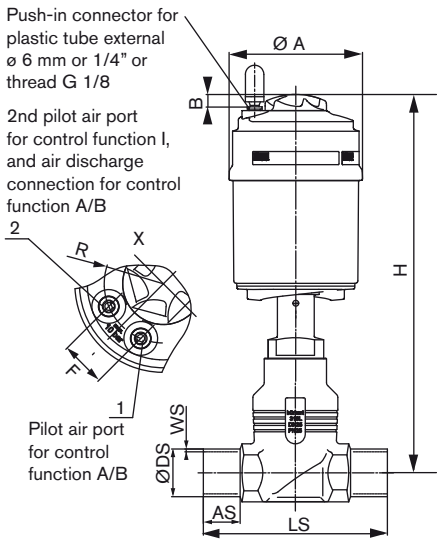
Dimensions Type 2101 Globe Valve [mm], continued

Threaded port



G Orifice [inch]	Actuator size [mm]	Ø A	B	F	H	R	LM	TM G	TM NPT	TM Rc
3/8"	50	64.5	6	19.8	236	19.8	65	12	10.3	10.1
	70	91	8.5	23.3	250	30.5				
1/2"	50	64.5	6	19.8	236	19.8	65	14	13.7	13.2
	70	91	8.5	23.3	250	30.5				
3/4"	50	64.5	6	19.8	242	19.8	75	16	14	14.5
	70	91	8.5	23.3	256	30.5				
1"	50	64.5	6	19.8	249	19.8	90	18	16.8	16.8
	70	91	8.5	23.3	263	30.5				
1 1/4"	70	91	8.5	23.3	283	30.5	110	20	17.3	19.1
	90	120	8.5	23.3	340	30.5				
G 1 1/2"	70	91	8.5	23.3	288	30.5	120	22	17.3	19.1
	90	120	8.5	23.3	345	30.5				
G 2"	70	91	8.5	23.3	299	30.5	150	24	17.6	23.4
	90	120	8.5	23.3	352	30.5				

Weld end body



ISO 4200, DIN 11850 S2

Orifice [mm]	Actuator size [mm]	Ø A	B	F	H	R	AS	LS	ISO 4200 ØDS	ISO 4200 WS	DIN 11850 S2 ØDS	DIN 11850 S2 WS
10	50	64.5	6	19.8	236	19.8	20	90	17.2	1.6	13	1.5
	70	91	8.5	23.3	250	30.5						
15	50	64.5	6	19.8	236	19.8	20	90	21.3	1.6	19	1.5
	70	91	8.5	23.3	250	30.5						
20	50	64.5	6	19.8	242	19.8	20	100	26.9	1.6	23	1.5
	70	91	8.5	23.3	256	30.5						
25	50	64.5	6	19.8	249	19.8	26	130	33.7	2.0	29	1.5
	70	91	8.5	23.3	263	30.5						
32	70	91	8.5	23.3	283	30.5	26	140	42.4	2.0	35	1.5
	90	120	8.5	23.3	340	30.5						
40	70	91	8.5	23.3	288	30.5	26	150	48.3	2.0	41	1.5
	90	120	8.5	23.3	345	30.5						
50	70	91	8.5	23.3	299	30.5	26	175	60.3	2.0	53	1.5
	90	120	8.5	23.3	352	30.5						

BS4825 Part 1, ASME BPE

Orifice [inch]	Actuator size [mm]	Ø A	B	F	H	R	AS	LS	BS4825 Part1 ØDS	BS4825 Part1 WS	ASME BPE ØDS	ASME BPE WS
1/2"	50	64.5	6	19.8	236	19.8	20	90	12.7	1.2	12.7	1.65
	70	91	8.5	23.3	250	30.5						
3/4"	50	64.5	6	19.8	236	19.8	20	90	19.05	1.2	19.05	1.65
	70	91	8.5	23.3	250	30.5						
1"	50	64.5	6	19.8	242	19.8	20	100	25.4	1.6	25.4	1.6
	70	91	8.5	23.3	256	30.5						
1 1/2"	70	91	8.5	23.3	283	30.5	26	140	38.1	1.6	38.1	1.6
	90	120	8.5	23.3	340	30.5						
2"	70	91	8.5	23.3	288	30.5	26	150	50.8	1.6	50.8	1.6
	90	120	8.5	23.3	345	30.5						
2 1/2"	70	91	8.5	23.3	299	30.5	26	175	63.5	1.6	63.5	1.6
	90	120	8.5	23.3	352	30.5						

DTS 1000112108 EN Version: C Status: RL (released I freigegeben I validé) printed: 09.09.2009

bürkert

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

A **valve system On/Off ELEMENT Type 8801-GC** consists of an **Globe Valve Type 2101** and a pneumatic control unit **Type 8690**, control head **Type 8691** (for valve actuator sizes ø70/ø90mm) or control head **Type 8695** (for valve actuator size ø50 mm) (see separate datasheets).
For the configuration of further valve systems please use the "Request for quotation" on p. 17 go to page
You order two components and receive a complete assembled and certified valve.

Ordering the valve system On/Off ELEMENT Type 8801-GC with valve actuator sizes ø 70 / ø 90 mm

Globe Valve Type 2101 with actuator sizes ø 70/ ø 90 mm

Control Head

Typ 8690

Typ 8691

Globe valve with desired control unit

Valve system On/Off ELEMENT Type 8801-GC-K 2101 + 8690

Valve system On/Off ELEMENT Type 8801-GC-H 2101 + 8691

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

Pneumatic control unit Type 8690

More info.

The new generation of integrated controllers for combination with actuators from the process valve series Type 21xx is specially designed for the requirements of hygienic process environments.
The pneumatic control unit Type 8690 combines electrical position feedback and pneumatic control for single or double-acting actuators, and is also optionally available as an intrinsically safe model to ATEX.

Main customer benefits:
- Compact design of the valve system with integrated controller meets the demands for plant washdown environments through the selection of materials, external seals and integrated control air supply to the actuator.
- 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

Control head Type 8691

More info.

DeviceNet™

The new generation of integrated control heads for combination with actuators from the process valve series Type 21xx is specially designed for the requirements of hygienic process environments.
The intelligent control head, Type 8691, detects the valve position by means of a contact-free analog position sensor circumventing excessive wear of mechanical parts. Single or double-acting actuators are controlled via the integral pilot valve. Communication interfaces AS-Interface and DeviceNet are available as options.

Main customer benefits:
- 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

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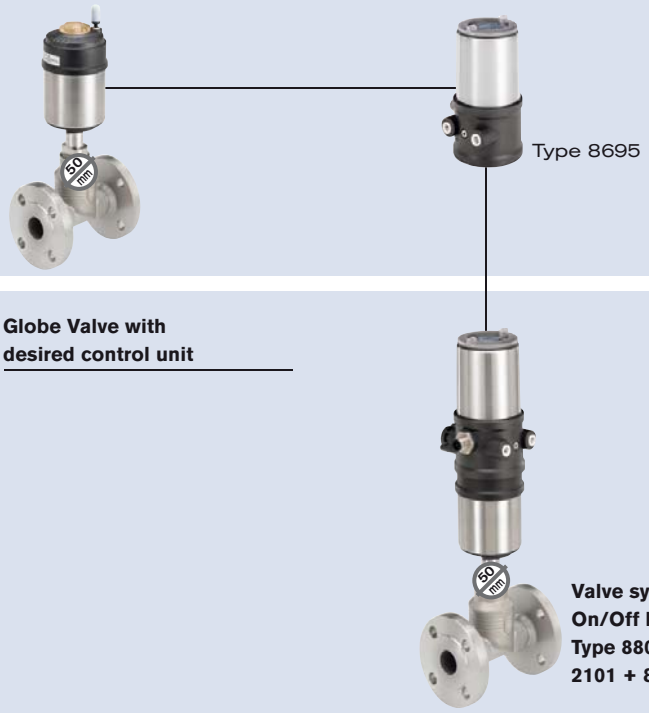
Ordering information for valve system On/Off ELEMENT Type 8801-GC continued

A **valve system On/Off ELEMENT Type 8801-GC** consists of an **Globe Valve Type 2101** and a pneumatic control unit **Type 8690**, control head **Type 8691** (for valve actuator sizes ø70/ø90mm) or control head **Type 8695** (for valve actuator size ø50 mm) (see separate datasheets).
For the configuration of further valve systems please use the "Request for quotation" on p. 17 go to page
You order two components and receive a complete assembled and certified valve

Ordering the valve system On/Off ELEMENT Type 8801-GC with valve actuator size ø 50 mm

Globe Valve Type 2101 with atuator size ø 50 mm

Control Head



Globe Valve with desired control unit

Valve system On/Off ELEMENT Type 8801-GC-M 2101 + 8695

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

Control head Type 8695

More info.

The new generation of integrated control heads for combination with small actuators from the process valve series Type 21xx is specially designed for the requirements of hygienic process environments. The intelligent control head, Type 8695, detects the valve position by means of a contact-free analog position sensor circumventing excessive wear of mechanical parts. Single and double-acting actuators are controlled via the integral pilot valve. An AS-Interface communication interface is available as an option.

Main customer benefits:
- 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
- Visual status display on the control head
- Monitoring and diagnosis: Process valve systems with fieldbus interface used in modern plant processes
- Integrated pilot valve
- Simple and reliable actuator adaption

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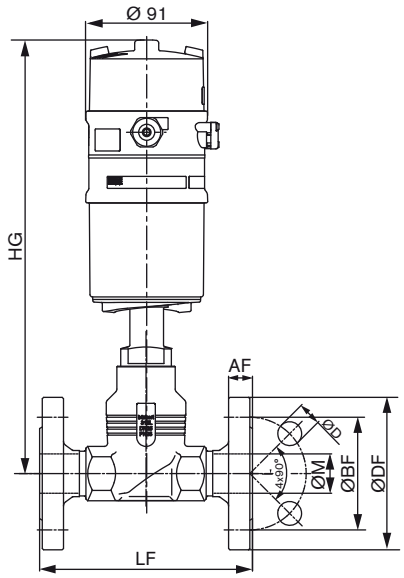
Dimensions for valve system On/Off ELEMENT Type 8801-GC [mm]

Dimensions valve system On/Off ELEMENT Type 8801-GC-K with pneumatic control unit Type 8690 [mm]

Flanged body



DIN EN 1092, JIS 10K

Orifice	Actuator size		DIN EN 1092						JIS 10K					
[mm]	[mm]	HG	ØDF	LF	ØBF	AF	ØD	ØM	ØDF	LF	ØBF	AF	ØD	ØM
10	70	313	90	130	60	16	14	13.6	–	–	–	–	–	–
15	70	313	95	130	65	16	14	18.1	95	108	70	12	15	18.1
20	70	319	105	150	75	18	14	23.7	100	117	75	14	15	23.7
25	70	326	115	160	85	18	14	29.7	125	127	90	14	19	29.7
32	70	346	140	180	100	18	18	38.4	135	140	100	16	19	38.4
	90	403	140	180	100	18	18	38.4	135	140	100	16	19	38.4
40	70	351	150	200	110	18	18	44.3	140	165	105	16	19	44.3
	90	408	150	200	110	18	18	44.3	140	165	105	16	19	44.3
50	70	362	165	230	125	20	18	56.3	155	203	120	16	19	56.3
	90	415	165	230	125	20	18	56.3	155	203	120	16	19	56.3

ANSI B 16.5

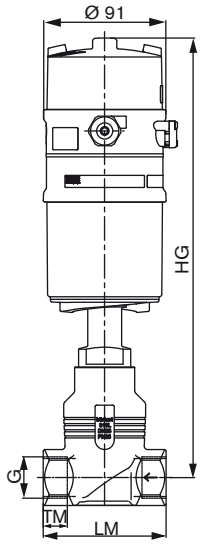
Orifice	Actuator size							
[mm]	[mm]	HG	ØDF	LF	ØBF	AF	ØD	ØM
1/2"	70	313	89	184	60.5	11.2	15.7	15.7
3/4"	70	319	99	184	69.9	12.7	15.7	20.8
1"	70	326	108	184	79.2	14.2	15.7	26.7
1 1/2"	70	351	127	222	98.6	17.5	15.7	40.9
	90	408	127	222	98.6	17.5	15.7	40.9
2"	90	415	152	254	120.7	19.1	19.1	52.6

DTS 1000112108 EN Version: C Status: RL (released | freigegeben | validé) printed: 09.09.2009

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

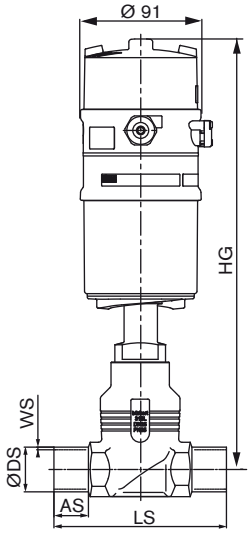
Dimensions valve system On/Off ELEMENT Type 8801-GC-K with pneumatic control unit Type 8690 [mm], continued

Threaded body



Actuator size [mm]	G			LM	HG	TM		
	G	NPT	Rc			G	NPT	Rc
70	G 1/2"	NPT 1/2"	Rc 1/2"	65	313	14	13.7	13.2
70	G 3/4"	NPT 3/4"	Rc 3/4"	75	319	16	14	14.5
70	G 1"	NPT 1"	Rc 1"	90	326	18	16.8	16.8
70	G 1 1/4"	NPT 1 1/4"	Rc 1 1/4"	110	346	20	17.3	19.1
90					403			
70	G 1 1/2"	NPT 1 1/2"	Rc 1 1/2"	120	351	22	17.3	19.1
90					408			
70	G 2"	NPT 2"	Rc 2"	150	362	24	17.6	23.4
90					415			

Weld end body



ISO 4200, DIN 11850 S2

Orifice [mm]	Actuator size [mm]	AS	LS	HG	ISO 4200		DIN 11850 S2	
					ØDS	WS	ØDS	WS
10	70	20	90	313	17.2	1.6	13	1.5
15	70	20	90	313	21.3	1.6	19	1.5
20	70	20	100	319	26.9	1.6	23	1.5
25	70	26	130	326	33.7	2.0	29	1.5
32	70	26	140	346	42.4	2.0	35	1.5
	90			403				
40	70	26	150	351	48.3	2.0	41	1.5
	90			408				
50	70	26	175	362	60.3	2.0	53	1.5
	90			415				

BS4825 Part 1, ASME BPE

Orifice [inch]	Actuator size [mm]	AS	LS	HG	BS4825 Part1		ASME BPE	
					ØDS	WS	ØDS	WS
1/2"	70	20	90	313	12.7	1.2	12.7	1.65
3/4"	70	20	90	319	19.05	1.2	19.05	1.65
1"	70	20	100	326	25.4	1.6	25.4	1.6
1 1/2"	70	26	140	351	38.1	1.6	38.1	1.6
	90			408				
2"	70	26	150	362	50.8	1.6	50.8	1.6
	90			415				
2 1/2"	70	26	175	362	63.5	1.6	63.5	1.6
	90			415				

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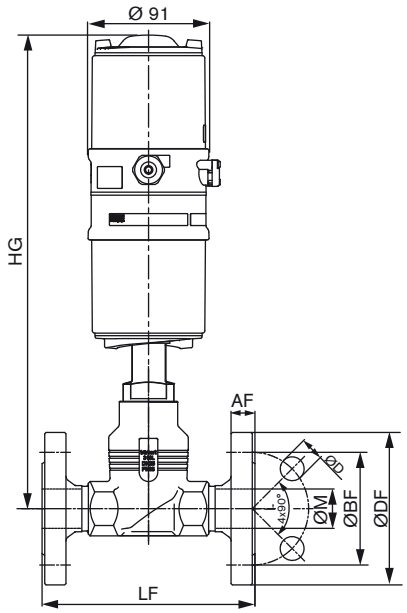
Dimensions for valve system On/Off ELEMENT Type 8801-GC [mm], continued

Dimensions valve system On/Off ELEMENT Type 8801-GC-H with control head Type 8691 [mm]

Flanged body



DIN EN 1092, JIS 10K

Orifice [mm]	Actuator size [mm]	HG	DIN EN 1092						JIS 10K					
			ØDF	LF	ØBF	AF	ØD	ØM	ØDF	LF	ØBF	AF	ØD	ØM
10	70	346	90	130	60	16	14	13.6	–	–	–	–	–	–
15	70	346	95	130	65	16	14	18.1	95	108	70	12	15	18.1
20	70	352	105	150	75	18	14	23.7	100	117	75	14	15	23.7
25	70	359	115	160	85	18	14	29.7	125	127	90	14	19	29.7
32	70	379	140	180	100	18	18	38.4	135	140	100	16	19	38.4
	90	436	140	180	100	18	18	38.4	135	140	100	16	19	38.4
40	70	384	150	200	110	18	18	44.3	140	165	105	16	19	44.3
	90	441	150	200	110	18	18	44.3	140	165	105	16	19	44.3
50	70	395	165	230	125	20	18	56.3	155	203	120	16	19	56.3
	90	448	165	230	125	20	18	56.3	155	203	120	16	19	56.3

ANSI B 16.5

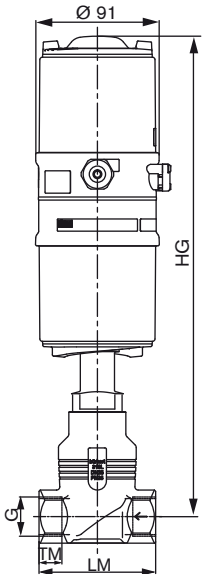
Orifice [inch]	Actuator size [mm]	HG	ØDF	LF	ØBF	AF	ØD	ØM
1/2"	70	346	89	184	60.5	11.2	15.7	15.7
3/4"	70	352	99	184	69.9	12.7	15.7	20.8
1"	70	359	108	184	79.2	14.2	15.7	26.7
1 1/2"	70	384	127	222	98.6	17.5	15.7	40.9
	90	441	127	222	98.6	17.5	15.7	40.9
2"	90	448	152	254	120.7	19.1	19.1	52.6

DTS 1000112108 EN Version: C Status: RL (released | freigegeben | validé) printed: 09.09.2009

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

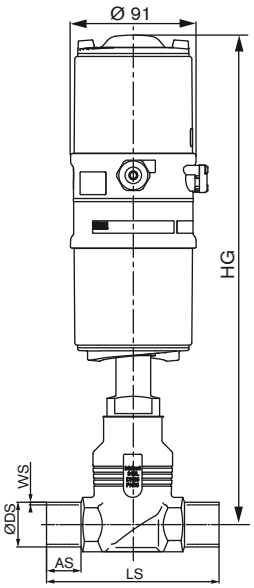
Dimensions valve system On/Off ELEMENT Type 8801-GC-H with control head Type 8691 [mm], continued

Threaded body



Actuator size [mm]	G					TM		
	G	NPT	Rc	LM	HG	G	NPT	Rc
70	G 1/2"	NPT 1/2"	Rc 1/2"	65	346	14	13.7	13.2
70	G 3/4"	NPT 3/4"	Rc 3/4"	75	352	16	14	14.5
70	G 1"	NPT 1"	Rc 1"	90	359	18	16.8	16.8
70	G 1 1/4"	NPT 1 1/4"	Rc 1 1/4"	110	379	20	17.3	19.1
90					436			
70	G 1 1/2"	NPT 1 1/2"	Rc 1 1/2"	120	384	22	17.3	19.1
90					441			
70	G 2"	NPT 2"	Rc 2"	150	395	24	17.6	23.4
90					448			

Weld end body



ISO 4200, DIN 11850 S2

Orifice [mm]	Actuator size [mm]	AS	LS	HG	ISO 4200		DIN 11850 S2	
					ØDS	WS	ØDS	WS
10	70	20	90	346	17.2	1.6	13	1.5
15	70	20	90	346	21.3	1.6	19	1.5
20	70	20	100	352	26.9	1.6	23	1.5
25	70	26	130	359	33.7	2.0	29	1.5
32	70	26	140	379	42.4	2.0	35	1.5
	90			436				
40	70	26	150	384	48.3	2.0	41	1.5
	90			441				
50	70	26	175	395	60.3	2.0	53	1.5
	90			448				

BS4825 Part 1, ASME BPE

Orifice [inch]	Actuator size [mm]	AS	LS	HG	BS4825 Part1		ASME BPE	
					ØDS	WS	ØDS	WS
1/2"	70	20	90	346	12.7	1.2	12.7	1.65
3/4"	70	20	90	346	19.05	1.2	19.05	1.65
1"	70	20	100	352	25.4	1.6	25.4	1.6
1 1/2"	70	26	140	379	38.1	1.6	38.1	1.6
	90			436				
2"	70	26	150	384	50.8	1.6	50.8	1.6
	90			441				
2 1/2"	70	26	175	395	63.5	1.6	63.5	1.6
	90			448				

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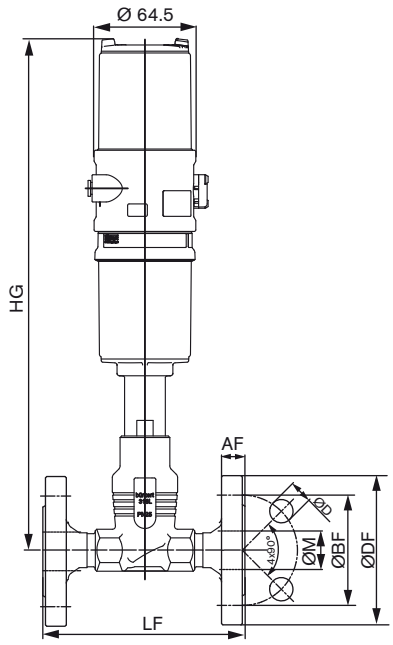
Dimensions for valve system On/Off ELEMENT Type 8801-GC [mm], continued

Dimensions valve system On/Off ELEMENT Type 8801-GC-M with control head Type 8695 [mm]

Flanged body



DIN EN 1092, JIS 10K

Orifice [mm]	Actuator size [mm]	HG	DIN EN 1092						JIS 10K					
			ØDF	LF	ØBF	AF	ØD	ØM	ØDF	LF	ØBF	AF	ØD	ØM
10	50	329	90	130	60	16	14	13.6	–	–	–	–	–	–
15	50	329	95	130	65	16	14	18.1	95	108	70	12	15	18.1
20	50	335	105	150	75	18	14	23.7	100	117	75	14	15	23.7
25	50	342	115	160	85	18	14	29.7	125	127	90	14	19	29.7

ANSI B 16.5

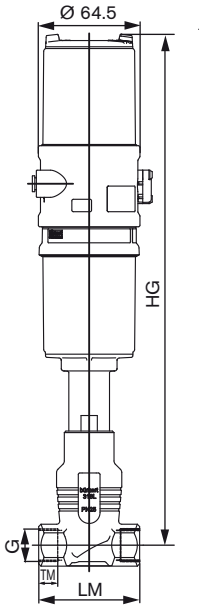
Orifice [inch]	Actuator size [mm]	HG	ØDF	LF	ØBF	AF	ØD	ØM
1/2"	50	329	89	184	60.5	11.2	15.7	15.7
3/4"	50	335	99	184	69.9	12.7	15.7	20.8
1"	50	342	108	184	79.2	14.2	15.7	26.7

DTS 1000112108 EN Version: C Status: RL (released I freigegeben I validé) printed: 09.09.2009

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

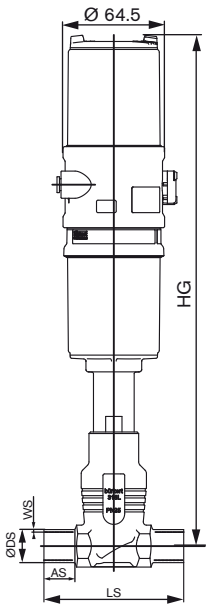
Dimensions valve system On/Off ELEMENT Type 8801-GC-M with control head Type 8695 [mm], continued

Threaded body



G					TM		
G	NPT	Rc	LM	HG	G	NPT	Rc
G 1/2"	NPT 1/2"	Rc 1/2"	65	329	14	13.7	13.2
G 3/4"	NPT 3/4"	Rc 3/4"	75	335	16	14	14.5
G 1"	NPT 1"	Rc 1"	90	342	18	16.8	16.8

Weld end body



ISO 4200, DIN 11850 S2

Orifice				ISO 4200		DIN 11850 S2	
[mm]	AS	LS	HG	ØDS	WS	ØDS	WS
10	20	90	329	17.2	1.6	13	1.5
15	20	90	329	21.3	1.6	19	1.5
20	20	100	335	26.9	1.6	23	1.5
25	26	130	342	33.7	2.0	29	1.5

BS4825 Part 1, ASME BPE

Orifice				BS4825 Part1		ASME BPE	
[inch]	AS	LS	HG	ØDS	WS	ØDS	WS
1/2"	20	90	329	12.7	1.2	12.7	1.65
3/4"	20	90	335	19.05	1.2	19.05	1.65
1"	20	100	342	25.4	1.6	25.4	1.6

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bürkert

Valve system On/Off ELEMENT Type 8801-GC - Request for quotation

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

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

Pipeline DN PN

Pipe material

■ **Process medium**

■ **Type of media** ☐ Liquid ☐ Steam ☐ Gas

Valve features

Seat sealing material ☐ PTFE ☐ NBR ☐ Other

Nominal pressure PN

Nominal size DN

Type of connection ☐ Flanged ☐ Threaded ☐ Welded ☐ Clamp

Standard connection ☐ ISO ☐ DIN ☐ Other

Control function ☐ NC[1)] ☐ NO [1)] ☐ double-acting

Pilot pressure min. max.

Please specify item no. if known):

[1)] NC: normally closed by spring action; NO: normally open by spring action

Control unit features

For actuator sizes 70/90 mm

☐ **Pneumatic Control Unit Type 8690** More info.

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
☐ 24 V / DC (ATEX Zone 2/22)
☐ Ex ia IIC T6 (ATEX Zone 1)

Pilot air ports
☐ Push-in connector external ø 6mm or 1/4" ☐ Thread G 1/8"

Please specify item no. if known:

For actuator sizes 70/90 mm

☐ **Control Head Type 8691** More info.

Pneumatic function
☐ Single-acting ☐ Double-acting

Pilot air ports
☐ Push-in connector external ø 6mm or 1/4"
☐ Thread G 1/8"

Communication
☐ ASI
☐ Multipol M12
☐ Flat cable clip, 1 m cable
☐ DeviceNet

Please specify item no. if known:

For actuator size 50 mm

☐ **Control Head Type 8695** More info.

Pneumatic function
☐ Single-acting ☐ Double-acting

Pilot air ports
☐ Push-in connector external ø 6mm or 1/4"
☐ Thread G 1/8"

Communication
☐ ASI

Please specify item no. if known:

Comments

* To find your nearest Bürkert facility, click on the orange box → www.burkert.com

Reset form

0909/3_EU-en_00895100

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