



Type 2104 can be combined with...



Type 8691

Control Head



Type 8695

Control Head

Pneumatically operated zero dead volume T-valve ELEMENT for decentralized automation

- Zero deadleg monoblock without welds
- Diaphragm hermetically separates the fluids from the operating mechanism
- Easy integration of ELEMENT automation units
- Stainless steel body with clamp or weld ends
- FDA/3A quality certifications

Actuator with 360° rotation possibility



Type 8690

Pneumatic Control Unit



Type 8697

Pneumatic Control Unit

The Burkert Zero dead volume T-Valve Type 2104 is designed for control of ultra pure, sterile, aggressive or abrasive fluids. It enables especially optimal sampling, draining or diverting of critical process fluids. The valve body is machined from a single piece of block material (monoblock – no weld seam). The high quality diaphragms separate hermetically critical fluids from the actuator.

The pneumatic actuator is optimized for decentralized automation through ELEMENT pneumatic automation units. The fully integrated system has a compact and smooth design, integrated pneumatic lines, IP65/67, NEMA Type 4x protection class and superior chemical resistance.

Technical data

Orifice	DN 8 to 50
Body material	▪ Stainless steel 1.4435 / 316 L ▪ Stainless steel 1.4435BN2 / ASME BPE Fe < 0.5% / C ≤ 0.03%
Diaphragm materials	EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU), Gylon®/EPDM laminated (ER), FKM (FF)
Actuator material	PPS Stainless steel 1.4561 (316Ti)
Pilot air ports	Stainless steel 1.4305
Surface finish (others on request)	<ul style="list-style-type: none"> ▪ inside mechanical polished ▪ inside electro polished <ul style="list-style-type: none"> ▪ Ra ≤ 0,5 µm (ASME BPE SF1) (external Ra ≤ 1,6 µm) ▪ Ra ≤ 0,38 µm (ASME BPE SF4 / DIN HE4) (external Ra ≤ 1,6 µm)
Medium temperature EPDM (AD) PTFE/EPDM (EA) PTFE/EPDM (EU) GYLON®/EPDM laminated (ER) FKM (FF)	-10 to +143 °C (steam sterilisation +150 °C for 60 min) -10 to +130 °C (steam sterilisation +140 °C for 60 min) -5 to +143 °C (steam sterilisation +150 °C for 60 min) -5 to +130 °C (steam sterilisation +140 °C for 60 min) 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

Type 2104

Technical data & ordering info. p. 1-9



System ELEMENT

Type 8801-TB

Ordering info. & technical data

Type 8801-TB

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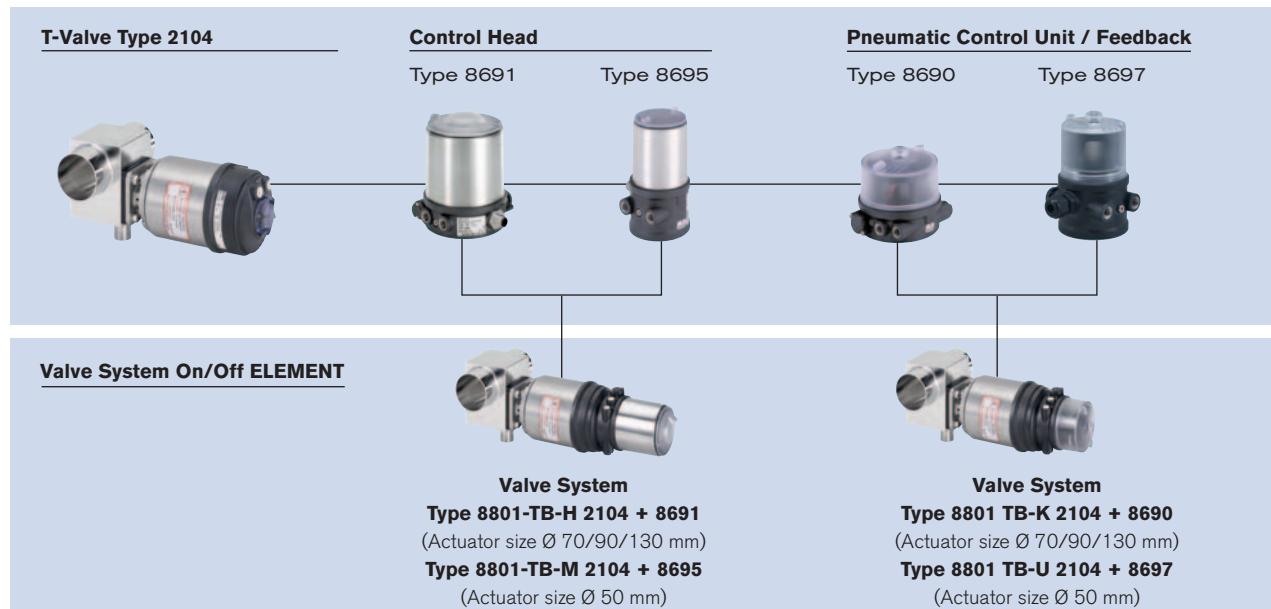
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Ordering information for decentralized automation of On/Off ELEMENT valve system Typ 8801-TB

A decentralized, automated **On/Off ELEMENT valve system Type 8801-TB** consists of a **T-valve Type 2104** and a valve actuation system control head **Type 8691/8695** or a pneumatic control unit **Type 8690/8697** (see separate datasheets).

For the configuration of further valve systems please use the "Request for quotation" on p. 12-14.

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



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

Features

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

Benefits

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

Features

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

Benefits

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

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

Technical data, continued

Port connections	
Weld end	<ul style="list-style-type: none"> ▪ DIN EN ISO 1127 / ISO 4200 / DIN 11866 Series B ▪ DIN 11850 Series 2 / DIN 11866 Series A ▪ ASME BPE / DIN 11866 Series C
Clamp	<ul style="list-style-type: none"> ▪ DIN 32676 Series A (DIN tube) ▪ DIN 32676 Series B (ISO tube) ▪ ASME BPE
Installation for self-draining	Inclined 3 to 5° downwards

¹⁾ Advanced PTFE/EPDM is recommended for sterilization cycle

Technical data valves**Kv-values**

Port size [mm]	[Zoll]	Kv value water (m³/h)	Actuator size Ø [mm]	Permitted pilot pressure [bar]		Max. operating pressure [bar] for seal material EPDM, FKM [bar]	PTFE/EPDM, advanced PTFE/ EPDM [bar]
				min.	max.		
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
40	1 1/2"	30.0	130	5.0	7	10	10
50	2"	51.5	130	5.0	7	8	7

Flow: Kv-value water (m³/h)

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

Statement of pressure (bar)

Gauge pressures with respect to the prevailing atmospheric pressure.

Approvals/certifications

Suitability for foodstuffs / sterile applications

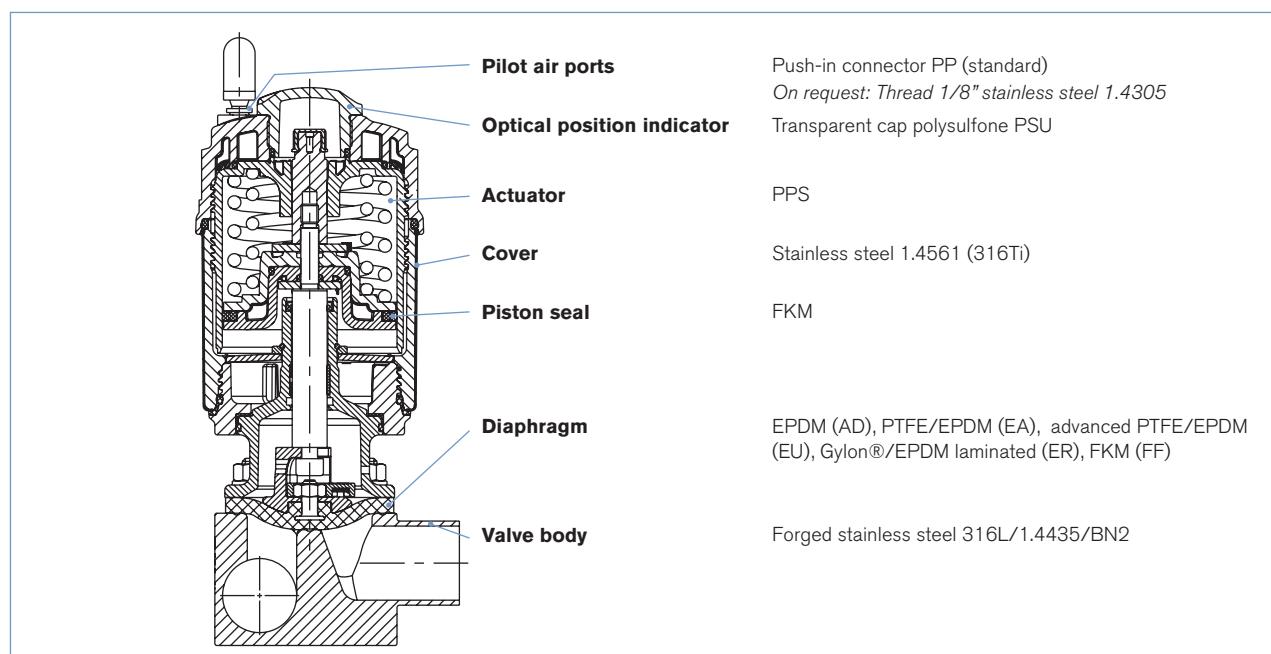


- The composition of the EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) diaphragms corresponds to the Code of Federal Regulations, published by the FDA (Food and Drug Administration, USA).



- The composition of the EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) diaphragms is suitable for the application with food and beverage (acc. to EC-Regulation 1935/2004/EC)
- The composition of the EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) diaphragms are approved acc. USP Class VI
- Approval according to TA-air (Port size DN4-50)

Materials



Example of available diaphragm materials

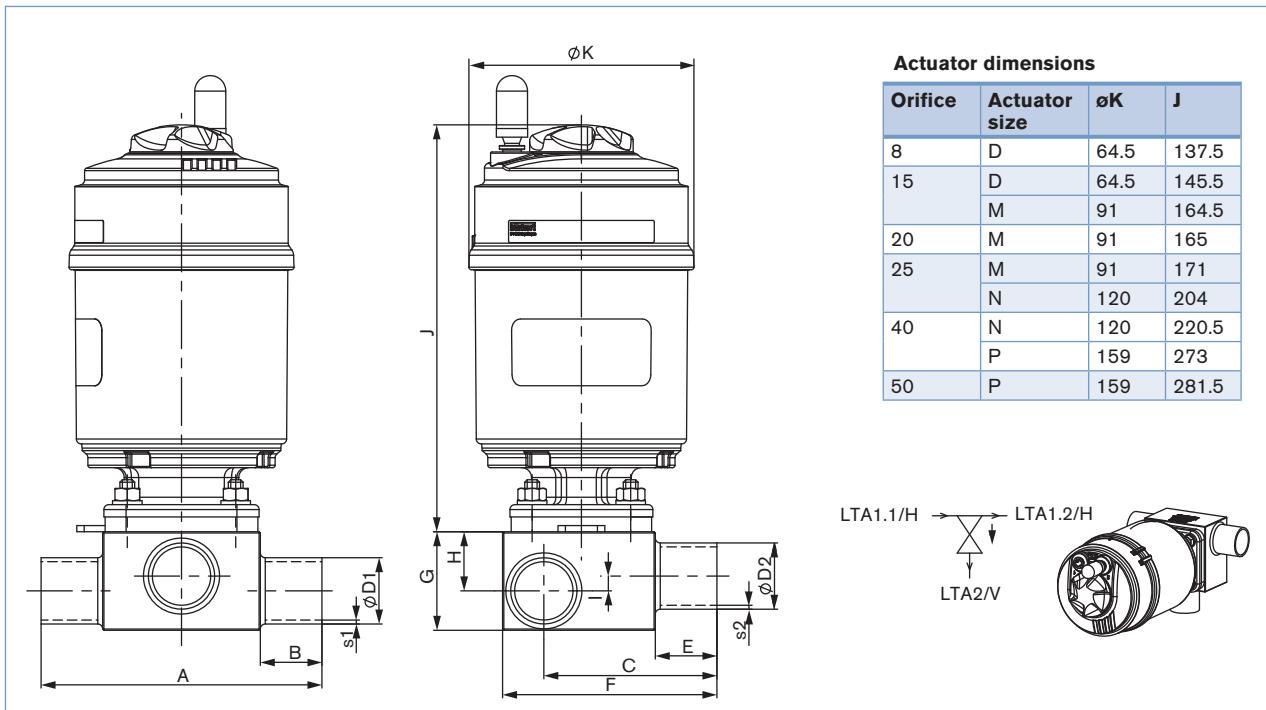
Developed to handle the unique challenges of hygienic and sterile applications, Burkert offers diaphragms with precise material formula and physical tolerances. Burkert diaphragms are available in a wide range of materials which have been proven in food & beverage, biotechnology, pharmaceutical and cosmetic industry applications. Burkert diaphragms are available in a wide range of materials which have been proven in food & beverage, biotechnology, pharmaceutical and cosmetic industry applications. Diaphragms are tested during development and production to ensure reliability in critical processing environments.



- EPDM (AD)
- PTFE/EPDM (EA)
- advanced PTFE/EPDM (EU)
- FKM (FF)
- Gylon®/EPDM laminated (ER)

Dimensions [mm]

Body with weld end acc. to DIN EN ISO 1127 / ISO 4200 / DIN 11866 Series B



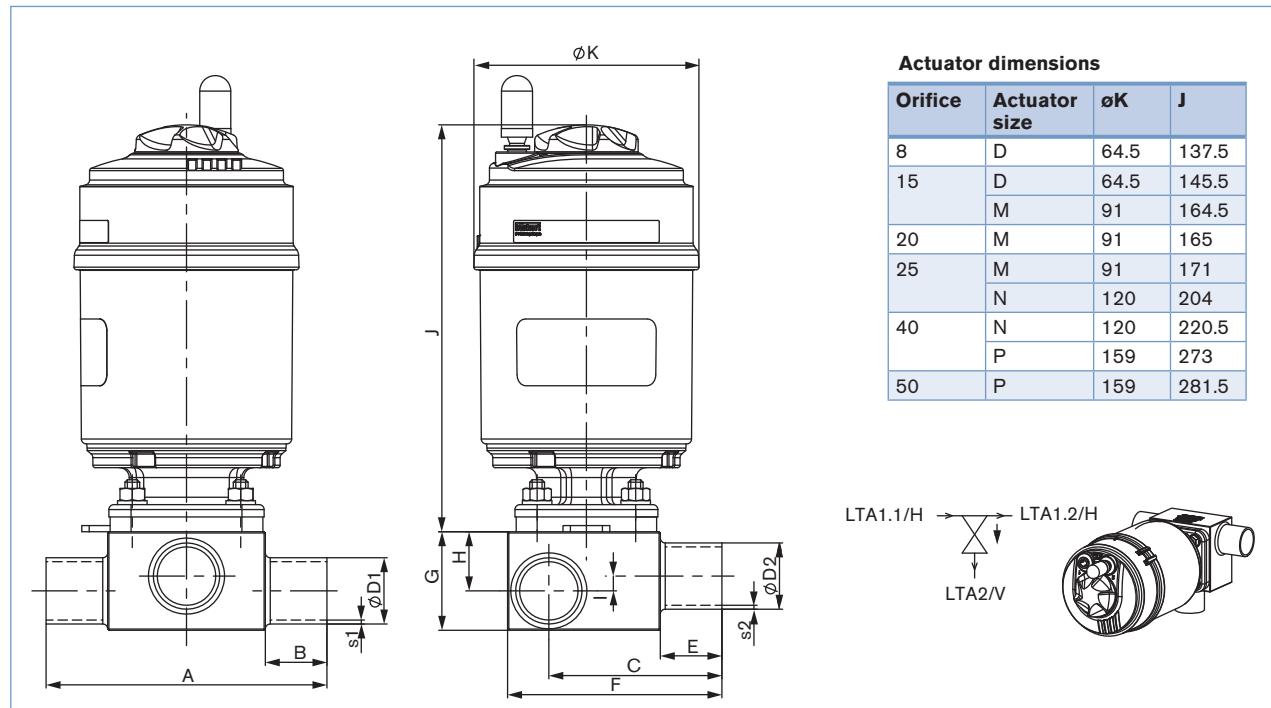
DN-Sitz	LTA1-LTA2	ANTG	$\phi D1 \pm 0.1$	$s1 \pm 0.1$	$\phi D2 \pm 0.1$	$s2 \pm 0.1$	$A \pm 0.3$	B	C	E	F	G	H	I
08.0	08 - 08	D	13.5	1.6	13.5	1.6	78.0	20	47.15	20	60	24	15	5.0
	10 - 08		17.2	1.6	13.5	1.6	78.0	20	49.00	20	60	29	18	8.0
	10 - 10		17.2	1.6	17.2	1.6	78.0	20	49.00	20	60	29	18	8.0
	15 - 08		21.3	1.6	13.5	1.6	78.0	20	51.05	20	64	34	21	11.0
	15 - 10		21.3	1.6	17.2	1.6	78.0	20	51.05	20	64	34	21	11.0
	20 - 08		26.9	1.6	13.5	1.6	88.0	25	53.85	20	70	38	23	13.0
	20 - 10		26.9	1.6	17.2	1.6	88.0	25	53.85	20	70	38	23	13.0
	25 - 08		33.7	2.0	13.5	1.6	88.0	25	56.85	20	76	45	26	16.0
	25 - 10		33.7	2.0	17.2	1.6	88.0	25	56.85	20	76	45	26	16.0
	32 - 08		42.4	2.0	13.5	1.6	88.0	25	61.20	20	84	52	29	19.0
	32 - 10		42.4	2.0	17.2	1.6	88.0	25	61.20	20	84	52	29	19.0
	40 - 08		48.3	2.0	13.5	1.6	88.0	25	64.15	20	90	57	31	21.0
	40 - 10		48.3	2.0	17.2	1.6	88.0	25	64.15	20	90	57	31	20.0
	50 - 08		60.3	2.0	13.5	1.6	98.0	30	70.15	20	102	66	34	24.0
	50 - 10		60.3	2.0	17.2	1.6	98.0	30	70.15	20	102	66	34	24.0
	65 - 08		76.1	2.0	13.5	1.6	98.0	30	78.05	20	118	80	40	30.0
	80 - 08		88.9	2.3	13.5	1.6	98.0	30	84.15	20	131	92	46	36.0
	80 - 10		88.9	2.3	17.2	1.6	98.0	30	84.15	20	131	92	46	35.0

Dimensions [mm], continued**Body with weld end acc. to DIN EN ISO 1127 / ISO 4200 / DIN 11866 Series B**

DN-Sitz	LTA1-LTA2	ANTG	øD1 ±0.1	s1 ±0.1	øD2 ±0.1	s2 ±0.1	A ±0.3	B	C	E	F	G	H	I
15.0	08 - 08	D / M	13.5	1.6	13.5	1.6	93.0	20	52.05	20	70	27	17	4.5
	10 - 08		17.2	1.6	13.5	1.6	93.0	20	53.90	20	70	31	18	4.5
	10 - 10		17.2	1.6	17.2	1.6	93.0	20	54.90	20	70	28	16	2.5
	15 - 08		21.3	1.6	13.5	1.6	93.0	20	56.95	20	71	34.5	21	7.5
	15 - 15		21.3	1.6	21.3	1.6	93.0	20	55.95	20	71	35	21	6.5
	20 - 08		26.9	1.6	13.5	1.6	103.0	25	59.75	20	76	41	25	11.5
	20 - 10		26.9	1.6	17.2	1.6	103.0	25	59.75	20	78	42	25	11.5
	20 - 15		26.9	1.6	21.3	1.6	103.0	25	58.75	20	78	42	25	11.5
	25 - 10		33.7	2.0	17.2	1.6	103.0	25	62.75	20	83	48	28	14.5
	25 - 15		33.7	2.0	21.3	1.6	103.0	25	62.75	20	82	47	28	14.5
	32 - 08		42.4	2.0	13.5	1.6	103.0	25	67.10	20	91	56	32	18.5
	32 - 10		42.4	2.0	17.2	1.6	103.0	25	67.10	20	91	56	32	18.5
	32 - 15		42.4	2.0	21.3	1.6	103.0	25	67.10	20	91	56	32	18.5
	40 - 08		48.3	2.0	13.5	1.6	103.0	25	69.05	20	97	61	34	20.5
	40 - 10		48.3	2.0	17.2	1.6	103.0	25	70.05	20	97	63	35	21.5
	40 - 15		48.3	2.0	21.3	1.6	103.0	25	69.05	20	97	63	35	21.5
	50 - 08		60.3	2.0	13.5	1.6	113.0	30	76.05	20	109	71	38	24.5
	50 - 10		60.3	2.0	17.2	1.6	113.0	30	76.05	20	109	72	38	24.5
	50 - 15		60.3	2.0	21.3	1.6	113.0	30	76.05	20	109	72	38	24.5
	65 - 08		76.1	2.0	13.5	1.6	113.0	30	83.95	20	125	85	44	30.5
	65 - 15		76.1	2.0	21.3	1.6	113.0	30	83.95	20	125	85	44	30.5
	80 - 08		88.9	2.3	13.5	1.6	113.0	30	90.05	20	140	99	52	38.5
	80 - 10		88.9	2.3	17.2	1.6	113.0	30	90.05	20	137	94	47	33.5
	80 - 15		88.9	2.3	21.3	1.6	113.0	30	90.05	20	137	94	47	33.5
	100 - 15		114.3	2.3	21.3	1.6	113.0	30	102.75	20	163	120	60	46.5
20.0	20 - 20	M	26.9	1.6	26.9	1.6	114.0	25	70.25	25	88	42	24	6.0
	25 - 20		33.7	2.0	26.9	1.6	114.0	25	73.25	25	94	48	28	10.0
	32 - 20		42.4	2.0	26.9	1.6	114.0	25	78.60	25	102	57	33	15.0
	40 - 20		48.3	2.0	26.9	1.6	114.0	25	80.55	25	108	63	35	17.0
	50 - 20		60.3	2.0	26.9	1.6	124.0	30	86.55	25	121	74	40	22.0
	65 - 20		76.1	2.0	26.9	1.6	124.0	30	94.45	25	136	86	45	27.0
	80 - 20		88.9	2.3	26.9	1.6	124.0	30	100.55	25	148	94	47	29.0
	100 - 20		114.3	2.3	26.9	1.6	124.0	30	113.25	25	173	120	60	42.0
25.0	25 - 25	M / N	33.7	2.0	33.7	2.0	124.5	25	78.55	25	98	53	33	13
	32 - 25		42.4	2.0	33.7	2.0	124.5	25	82.9	25	107	62	38	18
	40 - 25		48.3	2.0	33.7	2.0	124.5	25	85.85	25	114	69	41	21
	50 - 25		60.3	2.0	33.7	2.0	134.5	30	91.85	25	125	78	45	25.0
	65 - 25		76.1	2.0	33.7	2.0	134.5	30	99.75	25	142	94	52	32.0
	80 - 25		88.9	2.3	33.7	2.0	134.5	30	105.85	25	153	101	54	34.0
	150 - 25		168.3	2.6	33.7	2.0	134.5	30	145.25	25	232	174	87	67.0
40.0	32 - 32	N / P	42.4	2.0	42.4	2.0	152.0	25	97.00	25	122	62	37	8.4
	40 - 32		48.3	2.0	42.4	2.0	152.0	25	99.95	25	128	68	41	12.4
	40 - 40		48.3	2.0	48.3	2.0	152.0	25	99.95	25	128	68	41	12.4
	50 - 32		60.3	2.0	42.4	2.0	162.0	30	105.95	25	140	82	48	19.4
	50 - 40		60.3	2.0	48.3	2.0	162.0	30	105.95	25	140	82	48	19.4
	65 - 40		76.1	2.0	48.3	2.0	162.0	30	113.85	25	155	97	55	26.4
	80 - 32		88.9	2.3	42.4	2.0	162.0	30	119.95	25	168	108	60	31.4
	80 - 40		88.9	2.3	48.3	2.0	162.0	30	119.95	25	168	108	60	31.4
	100 - 32		114.3	2.3	42.4	2.0	162.0	30	132.65	25	193	129	68	39.4
	100 - 40		114.3	2.3	48.3	2.0	162.0	30	132.65	25	193	129	68	39.4
50.0	50 - 50	P	60.3	2.0	60.3	2.0	188.0	30	120.15	30	154	82	48	12.5
	65 - 50		76.1	2.0	60.3	2.0	188.0	30	128.05	30	172	100	56	20.5
	80 - 50		88.9	2.3	60.3	2.0	188.0	30	134.15	30	183	110	61	25.5
	100 - 50		114.3	2.3	60.3	2.0	188.0	30	146.85	30	208	131	70	34.5
	150 - 50		168.3	2.6	60.3	2.0	188.0	30	173.55	30	261	176	88	52.5

Dimensions [mm]

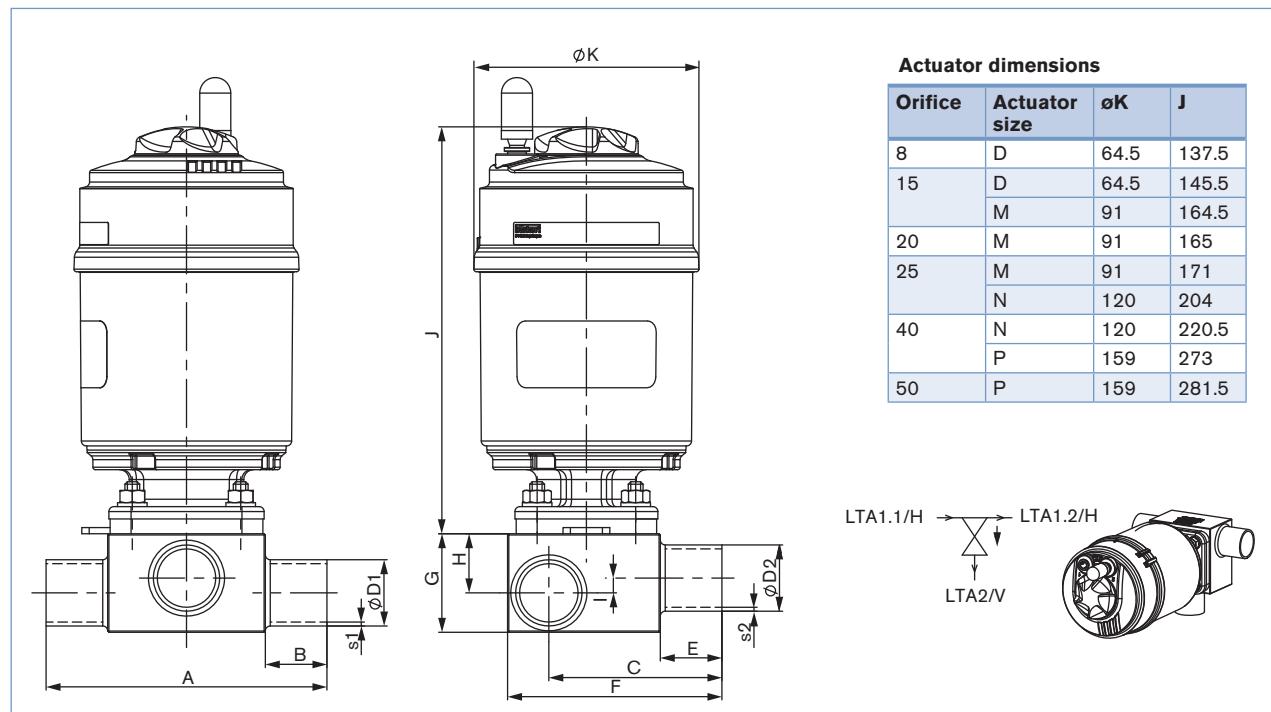
Diaphragm valve with T-body, ASME Version



DN-Sitz	LTA1-LTA2	ANTG	øD1 ±0.1	s1 ±0.1	øD2 ±0.1	s2 ±0.1	A ±0.3	B	C	E	F	G	H	I
0.8	20 - 08	D	19.05	1.65	6.35	0.89	88.0	25	49.88	20	61	32	20	10.0
	25 - 10		25.40	1.65	9.53	0.89	78.0	20	53.05	20	68	38	23	13.0
	40 - 08		38.10	1.65	6.35	0.89	88.0	25	59.40	20	80	49	28	18.0
	50 - 08		50.80	1.65	6.35	0.89	98.0	30	65.75	20	93	59	32	22.0
	65 - 08		63.50	1.65	6.35	0.89	98.0	30	72.10	20	106	70	36	26.0
15.0	15 - 15	D / M	12.70	1.65	12.70	1.65	93.0	20	51.60	20	70	27	13.5	0.0
	20 - 15		19.05	1.65	12.70	1.65	103.0	20	54.78	20	70	31	18.5	5.0
	25 - 15		25.40	1.65	12.70	1.65	103.0	20	57.95	20	75	40	24	10.5
	40 - 15		38.10	1.65	12.70	1.65	103.0	25	64.30	20	88	54	31	17.5
	50 - 15		50.80	1.65	12.70	1.65	113.0	30	71.65	20	100	64	35	21.5
	65 - 15		63.50	1.65	12.70	1.65	113.0	30	78.80	20	113	73	38	24.5
	80 - 15		76.20	1.65	12.70	1.65	113.0	30	84.35	20	125	85	44	30.5
20.0	20 - 20	M	19.05	1.65	19.05	1.65	114.0	25	66.28	25	85	36	18	0.0
	25 - 20		25.40	1.65	19.05	1.65	114.0	25	69.45	25	90	40	24	6.0
	40 - 20		38.10	1.65	19.05	1.65	114.0	25	75.80	25	98	53	31	13.0
	50 - 20		50.80	1.65	19.05	1.65	124.0	30	82.15	25	111	66	37	19.0
	65 - 20		63.50	1.65	19.05	1.65	124.0	30	88.50	25	123	75	40	22.0
	80 - 20		76.20	1.65	19.05	1.65	124.0	30	94.85	25	137	87	45	27.0
	100 - 20		101.60	2.11	19.05	1.65	124.0	30	107.09	25	161	108	54	36.0
25.0	25 - 25	M / N	25.40	1.65	25.40	1.65	124.5	25	74.75	25	95	42	26	6.0
	40 - 25		38.10	1.65	25.40	1.65	124.5	25	81.10	25	103	58	36	16.0
	50 - 25		50.80	1.65	25.40	1.65	134.5	30	87.45	25	120	75	44	24.0
	65 - 25		63.50	1.65	25.40	1.65	134.5	30	93.80	25	130	83	48	28.0
	80 - 25		76.20	1.65	25.40	1.65	134.5	30	100.15	25	142	94	52	32.0
40.0	40 - 40	N / P	38.10	1.65	38.10	1.65	152.0	25	95.20	25	121	58	35	6.4
	50 - 40		50.80	1.65	38.10	1.65	162.0	30	101.55	25	131	72	43	14.4
	65 - 40		63.50	1.65	38.10	1.65	162.0	30	107.90	25	143	85	50	21.4
	80 - 40		76.20	1.65	38.10	1.65	162.0	30	114.25	25	156	98	56	27.4
50.0	50 - 50	P	50.80	1.65	50.80	1.65	188.0	30	115.75	30	145	71	42	6.5
	65 - 50		63.50	1.65	50.80	1.65	188.0	30	122.10	30	157	85	50	14.5
	65 - 65		63.50	1.65	63.50	1.65	188.0	30	122.10	30	158	86	50	14.5
	80 - 50		76.20	1.65	50.80	1.65	188.0	30	128.45	30	169	98	56	20.5
	100 - 65		101.60	2.11	63.50	1.65	188.0	30	140.69	30	195	120	66	30.5

Dimensions [mm]

Diaphragm valve with T-body acc. to DIN 11850 Series 0 and series 2 / DIN 11866 Series A



DIN 11850 S.0 version

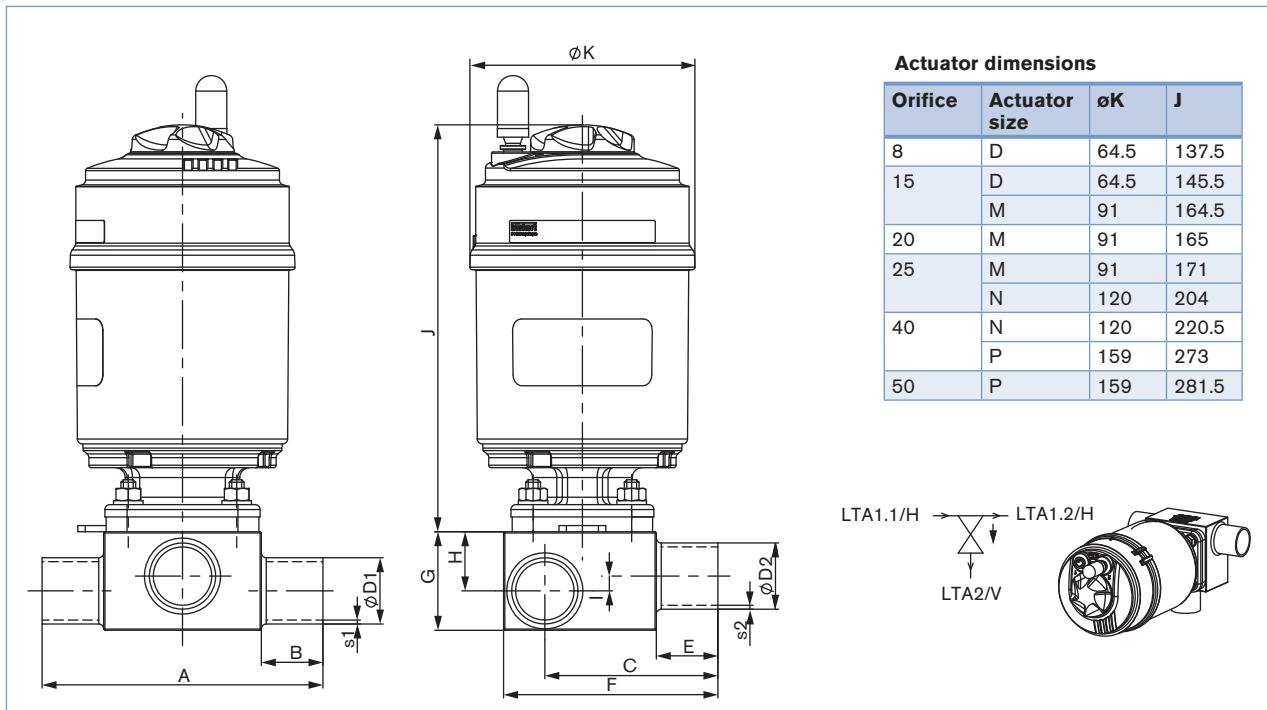
DN-Sitz	LTA1-LTA2	ANTG	$\varnothing D1 \pm 0.1$	$s1 \pm 0.1$	$\varnothing D2 \pm 0.1$	$s2 \pm 0.1$	$A \pm 0.3$	B	C	E	F	G	H	I
08.0	04 - 04	D	6.0	1.0	6.0	1.0	78.0	20	43.0	20	60	17	6.5	0.0
	06 - 06		8.0	1.0	8.0	1.0	75.0	17.5	46.5	20	60	13	7	0.0
	40 - 04		40.0	1.5	6.0	1.0	88.0	25	60.5	20	83	51	29	19.0
	40 - 08		40.0	1.5	10.0	1.0	88.0	25	60.5	20	83	51	29	19.0
	50 - 04		52.0	1.5	6.0	1.0	98.0	30	66.5	20	95	60	32	22.0
15.0	50 - 15	D / M	52.0	1.5	18.0	1.5	113.0	30	72.4	20	101	65	36	22.5
25.0	25 - 25	M / N	28.0	1.5	28.0	1.5	124.5	25	76.2	25	95	46	29	9.0
	50 - 25		52.0	1.5	28.0	1.5	134.5	30	88.2	25	117	71	42	22.0
40.0	25 - 32	N / P	28.0	1.5	34.0	1.5	152.0	25	90.3	25	122	58	32	3.4
	50 - 32		52.0	1.5	34.0	1.5	162.0	30	102.3	25	132	75	45	16.4
50.0	50 - 50	P	52.0	1.5	52.0	1.5	188.0	30	116.5	30	147	73	43	7.5

DIN 11850 S.2 version

DN-Sitz	LTA1-LTA2	ANTG	$\varnothing D1 \pm 0.1$	$s1 \pm 0.1$	$\varnothing D2 \pm 0.1$	$s2 \pm 0.1$	$A \pm 0.3$	B	C	E	F	G	H	I
08.0	10 - 10	D	13.0	1.5	13.0	1.5	78.0	20	47.0	20	60	24	15	5.0
	20 - 10		23.0	1.5	13.0	1.5	88.0	25	52.0	20	66	36	22	12.0
15.0	15 - 15	D / M	19.0	1.5	19.0	1.5	93.0	20	54.9	20	70	33	20	6.5
	20 - 15		23.0	1.5	19.0	1.5	103.0	20	56.9	20	72	37	22.5	8.5
	25 - 15		29.0	1.5	19.0	1.5	103.0	25	60.9	20	78	43	26	12.5
	32 - 15		35.0	1.5	19.0	1.5	103.0	25	62.9	20	84	50	29	14.5
	40 - 15		41.0	1.5	19.0	1.5	103.0	25	65.9	20	91	56	32	18.5
	50 - 15		53.0	1.5	19.0	1.5	113.0	30	72.9	20	102	65	36	22.5
20.0	20 - 20	M	23.0	1.5	23.0	1.5	114.0	25	68.4	25	88	42	21	3.0
	32 - 20		35.0	1.5	23.0	1.5	114.0	25	74.4	25	95	50	29	11.0
	40 - 20		41.0	1.5	23.0	1.5	114.0	25	77.4	25	101	56	32	14.0
25.0	25 - 25	M / N	29.0	1.5	29.0	1.5	124.5	25	76.7	25	98	48	30	10.0
	40 - 25		41.0	1.5	29.0	1.5	124.5	25	82.7	25	106	61	38	18.0
	50 - 25		53.0	1.5	29.0	1.5	134.5	30	88.7	25	120	73	44	24.0
40.0	32 - 32	N / P	35.0	1.5	35.0	1.5	152.0	25	93.8	25	121	52	31	2.4
	40 - 40		41.0	1.5	41.0	1.5	152.0	25	96.8	25	121	62	37	8.4
	50 - 40		53.0	1.5	41.0	1.5	162.0	30	102.8	25	133	75	45	16.4
50.0	50 - 50	P	53.0	1.5	53.0	1.5	188.0	30	117.0	30	147	74	44	8.5

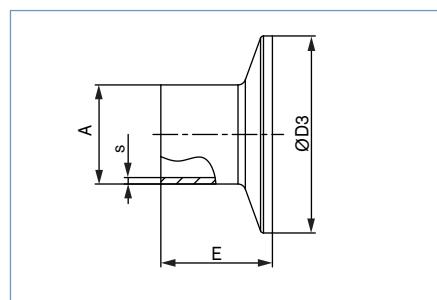
Dimensions [mm], continued

Diaphragm valve with T-Body, SMS 3008



SMS Version

DN-Sitz	LTA1-LTA2	ANTG	$\phi D1 \pm 0.1$	$s1 \pm 0.1$	$\phi D2 \pm 0.1$	$s2 \pm 0.1$	$A \pm 0.3$	B	C	E	F	G	H	I
25.0	25 - 25	M / N	25.0	1.2	25.0	1.2	124.5	25	75.0	25	95	43	27	7.0
	40 - 25		38.0	1.2	25.0	1.2	124.5	25	81.5	25	103	58	36	16.0
	50 - 25		51.0	1.2	25.0	1.2	134.5	30	88.0	25	118	72	42	22.0
40.0	40 - 40	N / P	38.0	1.2	38.0	1.2	152.0	25	95.6	25	121	58	35	6.4
	50 - 40		51.0	1.2	38.0	1.2	162.0	30	102.1	25	131	73	44	15.4
50.0	50 - 50	P	51.0	1.2	51.0	1.2	188.0	30	116.3	30	147	73	43	7.5

Dimensions [mm], continued**Clamp body****ASME BPE**

Orifice [mm]	[Zoll]	A	s	D3	E
08	1/4"	6.35	0.89	25.0	28.6
10	3/8"	9.53	0.89	25.0	28.6
15	1/2"	12.7	1.65	25.0	28.6
20	3/4"	19.05	1.65	25.0	28.6
25	1"	25.4	1.65	50.5	28.6
40	1 1/2"	38.1	1.65	50.5	28.6
50	2"	50.8	1.65	64.0	28.6
65	2 1/2"	63.5	1.65	77.5	28.6
80	3"	76.2	1.65	91.0	28.6
100	4"	101.6	2.11	119.0	28.6

DIN 32676 Series A (DIN tube)

Orifice [mm]	A	s	D3	E
10	13	1.5	34.0	18
15	19	1.5	34.0	18
20	23	1.5	34.0	18
25	29	1.5	50.5	21.5
32	35	1.5	50.5	21.5
40	41	1.5	50.5	21.5
50	53	1.5	64.0	21.5
65	70	2.0	91.0	28

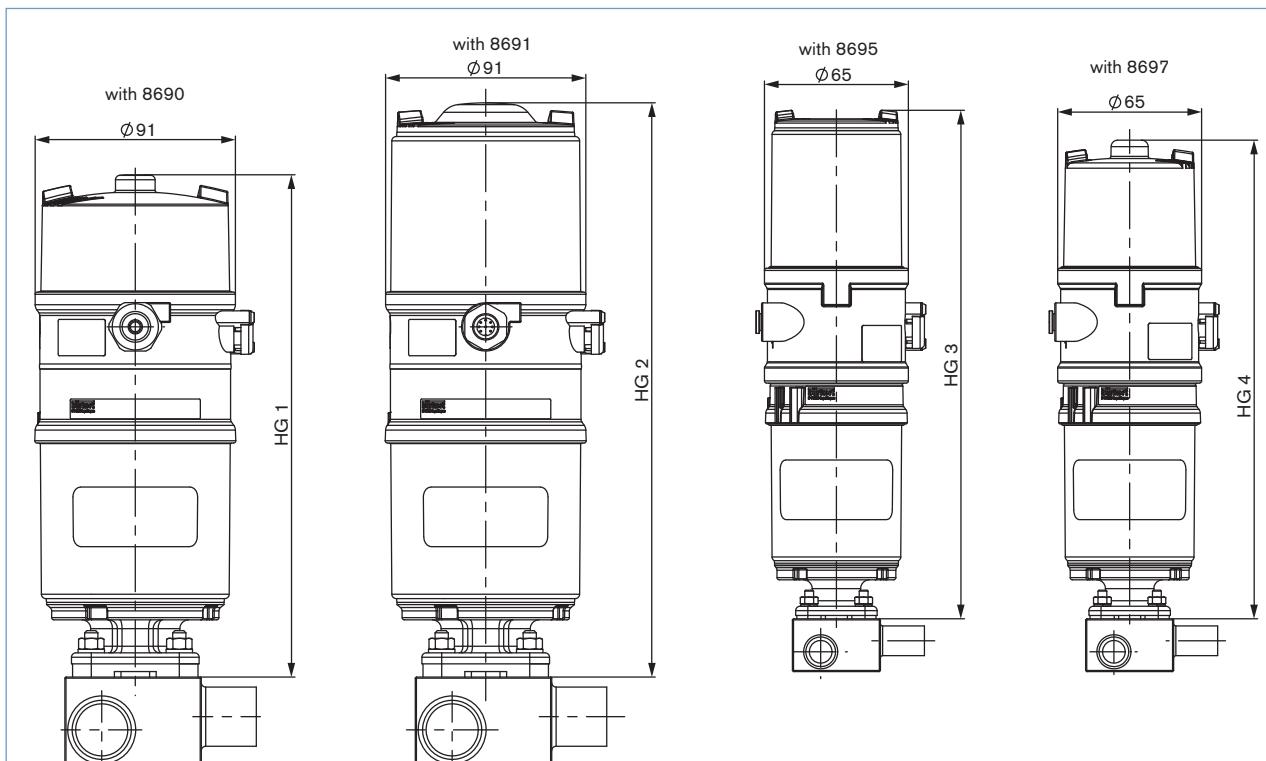
DIN 32676 Series B (ISO tube)

Orifice [mm]	A	s	D3	E
8	13.5	1.6	25.0	28.6
8	13.5	1.6	34.0	28.6
10	17.2	1.6	34.0	28.6
15	21.3	1.6	34.0	28.6
15	21.3	1.6	50.5	28.6
20	26.9	1.6	50.5	28.6
25	33.7	2	50.5	28.6
32	42.4	2	50.5	28.6
40	48.3	2	64.0	28.6
50	60.3	2	77.5	28.6
65	76.1	2	91.0	28.6
100	114.3	2.3	130.0	28.6

SMS

Orifice [mm]	A	s	D3	E
25	25	1.2	50.5	21.5
40	38	1.2	50.5	28.6
50	51	1.2	64.0	28.6

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



Port size [mm]	Actuator size [mm]	HG 1 [mm]
15	70	227.5
20	70	228
25	70	234
	90	267
40	90	283.5
	130	336
50	130	344.5

Port size [mm]	Actuator size [mm]	HG 2 [mm]
15	70	260.5
25	70	261
	90	267
40	90	300
	130	316.5
50	130	369
		377.5

Port size [mm]	Actuator size [mm]	HG 3 [mm]
8	50	231.5
15	50	239.5

Port size [mm]	Actuator size [mm]	HG 4 [mm]
8	50	218
15	50	226

Note

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

Valve system On/Off Element Type 8801-TB – Request for quotation

► Please fill out and send to your nearest Burkert facility* with your inquiry or order

Company	Contact person
Customer No	Department
Address	Tel./Fax
Postcode/Town	E-mail

= mandatory fields to fill out

Quantity

Required delivery date

Operating data

Pipe dimensions

Main tube øD1 x s1

Outlet tube øD2 x s2

Clamp main tube

Clamp outlet

Pipe material

Surface finish Ra int.

Process medium

Type of medium

Liquid

nominal

Steam

Gas

unit

Flow rate (Q, Q_N, W)¹⁾

Temperature at valve inlet T1

Absolute pressure at valve inlet P1

Absolute pressure at valve outlet P2

Steam pressure Pv

¹⁾ standard unit:

Liquid Q = m³/h;

Steam W = kg/h;

Gas Qn = nm³/h

Valve features

Specification key

automatically transferred
from last page

[go to page](#)



Continued on next page →

Valve system On/Off Element Type 8801-TA – Request for quotation, continued

Automation unit features

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

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

Certifications

- Attestation of compliance with the order EN-ISO 10204 2.1 (Item-No. 440 788)
- Test report EN-ISO 10204 2.2 (Item-No. 803 722)
- Certification of Conformity for Raw Material EN-ISO 10204 3.1 (Included in delivery)
- Certification according to FDA - USP

Comment / sketch

Valve features

Example	A	15	AD	B	VH	SA42	SA42	NO19	+ NO14	+ NK52
Specification key									+	+
Please make a choice										
Control function	A									
A Normally closed by spring action										
B normally open by spring action										
I double acting										
Diaphragm size	8									
15										
20										
25										
40										
50										
Seal material	AD EPDM									
EA PTFE/EPDM										
EU advanced PTFE/EPDM										
ER Gylon®/EPDM laminated										
FF FKM										
PRODUCTION OF BODY	B Monoblock									
Body material	VH 1.4435/AISI 316 L									
VI 1.4435 acc. to BN2/ASME										
Orifice	DIN EN ISO 1127 ISO 4200 DIN 11866 series B	SMS 3008	DIN 11850 series 0	DIN 11850 series 1 DIN EN 10357 series B	DIN 11850 series 2 DIN 11866 series A DIN EN 10357 series A	DIN 11850 series 3	BS 4825	ASME BPE DIN 11866 series C		
DN 4			SC40 - 6.0x1.0							
DN 6 1/8"	SA78 - 10.2x1.6		SC41 - 8.0x1.0							SA89 - 3.17x0.56
DN 8 1/4"	SA40 - 13.5x1.6		SC42 - 10.0x1.0							SA90 - 6.35x0.89
DN 10 3/8"	SA41 - 17.2x1.6			SF40 - 12.0x1.0	SD40 - 13.0x1.5	SE40 - 14.0x2.0	SODC - 9.53x1.2	SA91 - 9.53x0.89		
DN 15 1/2"	SA42 - 21.3x1.6		SC43 - 18.0x1.5	SF41 - 18.0x1.0	SD42 - 19.0x1.5	SE42 - 20.0x2.0	SODD - 12.7x1.2	SA92 - 12.7x1.65		
DN 20 3/4"	SA43 - 26.9x1.6		SC44 - 22.0x1.5	SF42 - 22.0x1.0	SD43 - 23.0x1.5	SE43 - 24.0x2.0	SODE - 19.05x1.2	SA93 - 19.05x1.65		
DN 25 1"	SA44 - 33.7x2.0	SA60 - 25.0x1.2	SC45 - 28.0x1.5	SF43 - 28.0x1.0	SD44 - 29.0x1.5	SE44 - 30.0x2.0	SODF - 25.4x1.65	SODF - 25.4x1.65		
DN 32 1 1/4"	SA45 - 42.4x2.0	SA61 - 33.7x1.2	SC46 - 34.0x1.5	SF44 - 34.0x1.0	SD45 - 35.0x1.5	SE45 - 36.0x2.0				
DN 40 1 1/2"	SA46 - 48.3x2.0	SA62 - 38.0x1.2	SC47 - 40.0x1.5	SF45 - 40.0x1.0	SD46 - 41.0x1.5	SE46 - 42.0x2.0	SODH - 38.1x1.65	SODH - 38.1x1.65		
DN 50 2"	SA47 - 60.3x2.0	SA63 - 51.0x1.2	SC48 - 52.0x1.5	SF46 - 52.0x1.0	SD47 - 53.0x1.5	SE47 - 54.0x2.0	SODI - 50.8x1.65	SODI - 50.8x1.65		
DN 65 2 1/2"	SA48 - 76.1x2.0	SA64 - 63.5x1.6			SD48 - 70.0x2.0		SODJ - 63.5x1.65	SODJ - 63.5x1.65		
DN 80 3"	SA49 - 88.9x2.3	SA65 - 76.1x1.6			SD49 - 85.0x2.0		SODK - 76.2x1.65	SODK - 76.2x1.65		
DN 100 4"	SA39 - 114.3x2.3	SA66 - 101.6x2.0			SD50 - 104.0x2.0		SODL - 101.6x2.11	SODL - 101.6x2.11		
Orifice	Clamp 34.0 similar DIN 32676 series B (ISO-tube)	DIN 32676 Reihe A (DIN-Rohr)	DIN 32676 Reihe B (ISO-Rohr)	ASME BPE	BS 4825 Clamp BS 4825-3 Rohr BS 4825-1					
DN 8 1/4"	TC51 - 13.5x1.6 Cl: 34.0	TD40 - 10.0x1.0 Cl: 25.0	TC40 - 13.5x1.6 Cl: 25.0	TG50 - 6.35x0.89 Cl: 25.0	TH40 - 6.35x1.2 Cl: 25.0					
DN 10 3/8"	TC41 - 17.2x1.6 Cl: 34.0	TD41 - 13.0x1.5 Cl: 34.0	TC53 - 17.2x1.6 Cl: 25.0	TG01 - 9.53x0.89 Cl: 25.0	TH41 - 9.53x1.2 Cl: 25.0					
DN 15 1/2"	TC42 - 21.3x1.6 Cl: 34.0	TD42 - 19.0x1.5 Cl: 34.0	TC52 - 21.3x1.6 Cl: 50.5	TG02 - 12.7x1.65 Cl: 25.0	TH42 - 12.7x1.2 Cl: 25.0					
DN 20 3/4"		TD43 - 23.0x1.5 Cl: 34.0	TC43 - 26.9x1.6 Cl: 50.5	TG03 - 19.05x1.65 Cl: 25.0	TH43 - 19.05x1.2 Cl: 25.0					
DN 25 1"		TD44 - 29.0x1.5 Cl: 50.5	TC44 - 33.7x2.0 Cl: 50.5	TG04 - 25.4x1.65 Cl: 50.5	TG04 - 25.4x1.65 Cl: 50.5					
DN 40 1 1/2"		TD46 - 41.0x1.5 Cl: 50.5	TC46 - 48.3x2.0 Cl: 64.0	TG05 - 38.1x1.65 Cl: 50.5	TG05 - 38.1x1.65 Cl: 50.5					
DN 50 2"		TD47 - 53.0x1.5 Cl: 64.0	TC47 - 60.3x2.0 Cl: 77.5	TG06 - 50.8x1.65 Cl: 64.0	TG06 - 50.8x1.65 Cl: 64.0					
DN 65 2 1/2"		TD48 - 70.0x2.0 Cl: 91.0	TC48 - 76.1x2.0 Cl: 91.0	TG07 - 63.5x1.65 Cl: 77.5	TG07 - 63.5x1.65 Cl: 77.5					
DN 80 3"			TC49 - 88.9x2.3 Cl: 106.0	TG08 - 76.2x1.65 Cl: 91.0	TG08 - 76.2x1.65 Cl: 91.0					
DN 100 4"			TC50 - 114.3x2.3 Cl: 130.0	TG09 - 101.6x2.11 Cl: 119.0	TG09 - 101.6x2.11 Cl: 119.0					

In case of special application conditions,
please consult for advice.

Subject to alteration.
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