



Type 2031 can be combined with...



Type 8691

Control head



Type 8690

Pneum. control unit with feedback

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

The standard material of the actuator is PPS. With its favourable flow characteristics and zero dead volume, the valve housing enables high flow capacities and a variety of applications to be realized.

Applications

- Water treatment
- Biotechnology
- Food industry

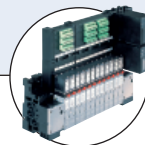
2/2-way Diaphragm Valve, cast valve body, weld end and clamp connection, port connection DN 4-50

- Hermetical separation of fluids from the operating mechanism by diaphragm
- Zero dead volume
- Various surface finishes
- Quality certifications **FDA / USP**



Type 1062

Electrical position feedback



Type 8640/8644

Valve block



Type 6012/6014 P

Pilot valve



Type 8311

Pressure Sensor/ Switch

Technical data	
Port Connection	DN 4 - 50
Body material	Cast stainless steel 316 L/1.4435
Actuator material	PPS (PA polyamide on request)
Pilot air ports	Stainless steel 1.4305
Seal materials	EPDM, PTFE/EPDM (advanced PTFE/EPDM, FKM on request)
Medium	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) (more on request)	(average surface finish) Ra ≤ 0.8 µm Ra ≤ 0.6 µm
Medium temperatures EPDM, PTFE/EPDM, advanced PTFE/EPDM ¹⁾ FKM	-10 to +130°C (briefly up to +150°C for steam sterilisation) -10 to +130°C
Ambient temperature Actuator size < 100 Actuator size ≥ 100	+5 to +140°C +5 to +90°C Briefly up to +140°C
Control medium	neutral gases; air
Pilot pressure max.	max. 7 bar, see table p. 2
Port connections Weld end acc. Clamp acc. Sterile threaded ends	EN ISO 1127/ISO 4200, DIN 11850 S0 to S3, SMS 3008 ISO 2852/SMS 3017, DIN 32676, BS 4825 on request DIN 11851, SMS 1145
Installation	As required, preferably with actuator in upright position

¹⁾ Advanced PTFE/EPDM is recommended for sterilization cycle

Content

Valve specifications		System spec. On/Off Classic		Request for quotation	
Type 2031 cast		Type 8801-DB/ 8803-DB		Type 8801-DB/ 8803-DB	
Technical data & ordering info.		Ordering info. & technical data			
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Technical data

Kv-values

Port connection DN		Orifice (diaphragm size)	Kv-value water ¹⁾	Actuator size Ø	Pilot pressure (bar)		Max. operating pressure for seal material [bar]		Weight
[mm]	[inch]	[mm]	[m³/h]	[mm]	min.	max.	EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM	[kg]
4/6	–	8	0.8	40	5.0	7	10	10	0.4
8	1/4"	8	1.0	40	5.0	7	10	10	0.4
10	3/8"	8	1.0	40	5.0	7	10	10	0.4
15	1/2"	15	4.0	50	5.0	7	8.5	–	0.7
			4.5	63	5.0	7	–	10	0.9
20	3/4"	20	7.0	63	5.5	7	10	–	1.3
			7.5	80	5.0	7	–	10	2.0
25	1"	25	12.0	80	5.0	7	10	–	2.2
			12.0	80	5.5	7	–	7.5	2.2
32	1 1/4"	32	30.0	100	5.5	7	6.5	–	4.2
			30.5	125	5.5	7	–	10	5.7
40	1 1/2"	40	30.0	100	5.5	7	6.5	–	4.2
			30.5	125	5.5	7	–	10	5.7
50	2"	50	51.5	125	5.5	7	8	–	7.6
			51.5	125	5.5	7	–	7	7.6

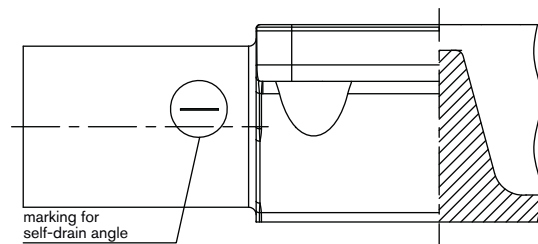
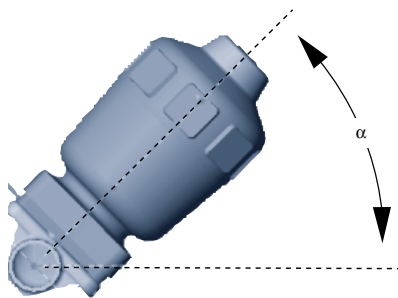
1) Measured at +20°C, 1 bar pressure at valve inlet and free outlet.

Pressure values (bar): Gauge pressures with respect to the prevailing atmospheric pressure.

Remark:

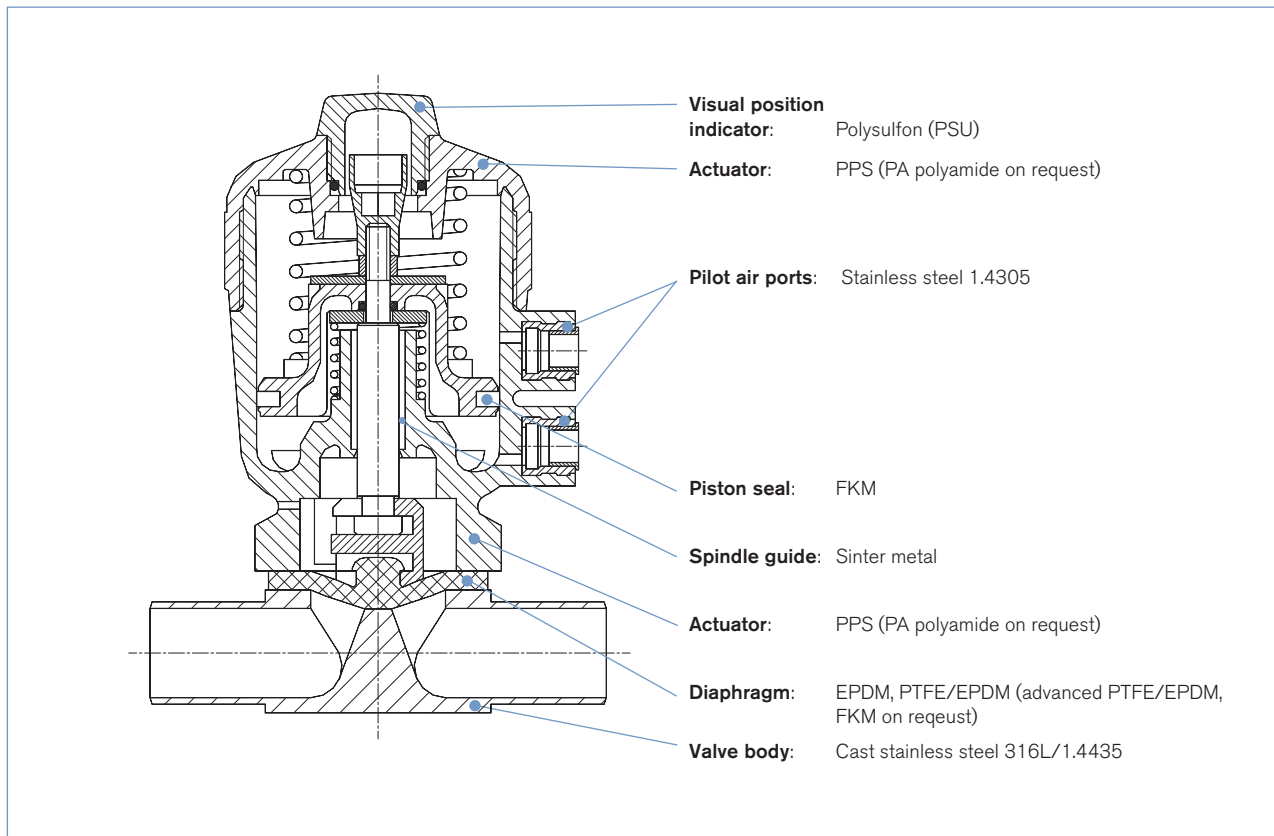
For low operating pressures we recommend reduced spring versions.

Installation for self-draining operation



$\alpha = 15^\circ$ up to 35° (Marking must face upwards, 12 o'clock position)
plus 1° 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.

Materials



Approvals

Suitable for foodstuffs / sterile applications



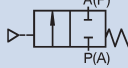
▪ The composition of the EPDM and PTFE/EPDM diaphragms corresponds to the *Code of Federal Regulations*, published by the *FDA* (Food and Drug Administration, USA).



- The 3-A approved diaphragm valves on request (3-A Sanitary Standards Symbol Administrative Council)
- The EPDM und PTFE/EPDM diaphragms are approved acc. USP Class VI
- Approval according TA-Luft (Port connections DN4-50)

Ordering chart for valves (other versions on request)

Body with weld end

	Port connection DN		Orifice (Diaphragm-size) [mm]	External Ø [mm]	Kv-value water [m³/h]	Actuator size Ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	Item no. mech. polished, Ra ≤ 0.8 µm	Item no. electro polished, Ra ≤ 0.6 µm
	[mm]	[inch]								
Control function A  2/2-way, NC by spring return	Acc. EN ISO 1127/ ISO 4200									
	Diaphragm material EPDM									
	8	1/4"	8	13.5	1.0	40	5.0-7	10	441 215	441 216
	10	3/8"	8	17.2	1.0	40	5.0-7	10	441 239	441 240
	15	1/2"	15	21.3	4.0	50	5.0-7	8.5	441 282	441 283
	20	3/4"	20	26.9	7.0	63	5.5-7	10	441 321	441 322
	25	1"	25	33.7	12.0	80	5.5-7	10	441 364	441 365
	32	1 1/4"	40	42.4	30.0	100	5.5-7	6.5	551 966	553 353
	40	1 1/2"	40	48.3	30.0	100	5.5-7	6.5	441 422	441 423
	50	2"	50	60.3	51.5	125	5.5-7	8	441 477	441 478
	Diaphragm material PTFE/EPDM									
	8	1/4"	8	13.5	1.0	40	5.0-7	10	441 952	441 953
	10	3/8"	8	17.2	1.0	40	5.0-7	10	441 963	441 964
	15	1/2"	15	21.3	4.5	63	5.0-7	10	441 967	441 968
	20	3/4"	20	26.9	7.5	80	5.0-7	10	441 971	441 972
	25	1"	25	33.7	12.0	80	5.5-7	7.5	441 975	441 976
	32	1 1/4"	40	42.4	30.5	125	5.5-7	10	550 766	554 965
	40	1 1/2"	40	48.3	30.5	125	5.5-7	10	441 979	441 980
	50	2"	50	60.3	51.5	125	5.5-7	7	441 983	441 984
	Acc. SMS 3008									
	Diaphragm material EPDM									
	25	1"	25	25.0	12.0	80	5.5-7	10	441 368	441 369
	40	1 1/2"	40	38.0	30.0	100	5.5-7	6.5	441 426	441 427
	50	2"	50	51.0	51.5	125	5.5-7	8	441 481	441 482
	Diaphragm material PTFE/EPDM									
	25	1"	25	25.0	12.0	80	5.5-7	7.5	442 061	442 062
	40	1 1/2"	40	38.0	30.5	125	5.5-7	10	442 065	442 066
	50	2"	50	51.0	51.5	125	5.5-7	7	442 069	442 070

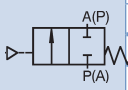
Port connection size equals the orifice diaphragm size except for port connection 32 mm. At port connection 32 mm the orifice diaphragm size equals 40 mm.

i Further versions on request

> Additional
Versions with reduced spring force

Ordering chart for valves (other versions on request)

Body with weld end, *cont.*

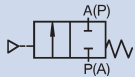
	Port connection DN		Orifice (Diaphragm size) [mm]	External Ø [mm]	Kv-value water [m³/h]	Actuator size Ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	Item no. mech. polished, Ra ≤ 0.8 µm	Item no. electro polished, Ra ≤ 0.6 µm
	[mm]	[inch]								
Control function A  2/2-way, NC by spring return	Acc. DIN 11850									
	Diaphragm material EPDM									
	Series 0									
	4	–	8	6.0	0.8	40	5.0-7	10	443 769	443 770
	6	–	8	8.0	0.8	40	5.0-7	10	443 773	443 774
	Series 2									
	10	3/8"	8	13.0	1.0	40	5.0-7	10	441 231	441 232
	15	1/2"	15	19.0	4.0	50	5.0-7	8.5	441 274	441 275
	20	3/4"	20	23.0	7.0	63	5.5-7	10	441 313	441 314
	25	1"	25	29.0	12.0	80	5.5-7	10	441 356	441 357
	40	1 1/2"	40	41.0	30.0	100	5.5-7	6.5	441 414	441 415
	50	2"	50	53.0	51.5	125	5.5-7	8	441 469	441 470
	Diaphragm material PTFE/EPDM									
	Series 0									
	4	–	8	6.0	0.8	40	5.0-7	10	443 777	443 778
	6	–	8	8.0	0.8	40	5.0-7	10	443 781	443 782
	Series 2									
	10	3/8"	8	13.0	1.0	40	5.0-7	10	441 778	441 779
	15	1/2"	15	19.0	4.5	63	5.0-7	10	441 794	441 795
	20	3/4"	20	23.0	7.5	80	5.0-7	10	441 866	441 867
	25	1"	25	29.0	12.0	80	5.5-7	7.5	441 885	441 886
	40	1 1/2"	40	41.0	30.5	125	5.5-7	10	441 901	441 902
	50	2"	50	53.0	51.5	125	5.5-7	7	441 956	441 957

i Further versions on request

> Additional
 Versions with reduced spring force

Ordering chart for valves (other versions on request)

Body with clamp connection

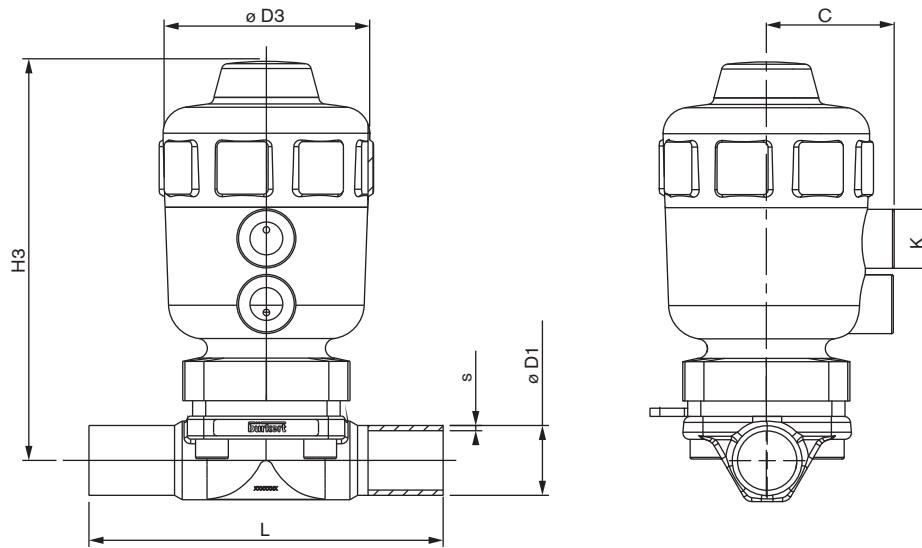
	Port connection DN		Orifice (Diaphragm size) [mm]	External Ø [mm]	Kv-value water [m³/h]	Actuator size Ø [mm]	Pilot pressure [bar]	Max. operating pressure [bar]	Item no. mech. polished, Ra $\leq$ 0.8 µm	Item no. electro polished, Ra $\leq$ 0.6 µm
	[mm]	[inch]								
Control function A  2/2-way, NC by spring return	Acc. ISO 2852 – SMS 3017									
	Diaphragm material EPDM									
	25	1"	25	50.5	12.0	80	5.5-7	10	441 384	441 385
	40	1 1/2"	40	50.5	30.0	100	5.5-7	6.5	441 442	441 443
	50	2"	50	64.0	51.5	125	5.5-7	8	441 497	441 498
	Diaphragm material PTFE/EPDM									
	25	1"	25	50.5	12.0	80	5.5-7	7.5	442 076	442 077
	40	1 1/2"	40	50.5	30.5	125	5.5-7	10	442 080	442 081
	50	2"	50	64.0	51.5	125	5.5-7	7	442 084	442 085
	Acc. DIN 32676									
	Diaphragm material EPDM									
	15	1/2"	15	34.0	4.0	50	5.0-7	8.5	441 294	441 295
	20	3/4"	20	34.0	7.0	63	5.5-7	10	441 333	441 334
	25	1"	25	50.5	12.0	80	5.5-7	10	441 380	441 381
	40	1 1/2"	40	50.5	30.0	100	5.5-7	6.5	441 438	441 439
	50	2"	50	64.0	51.5	125	5.5-7	8	441 493	441 494
	Diaphragm material PTFE/EPDM									
	15	1/2"	15	34.0	4.5	63	5.0-7	10	442 041	442 042
	20	3/4"	20	34.0	7.5	80	5.0-7	10	442 045	442 046
	25	1"	25	50.5	12.0	80	5.5-7	7.5	442 049	442 050
	40	1 1/2"	40	50.5	30.5	125	5.5-7	10	442 053	442 054
	50	2"	50	64.0	51.5	125	5.5-7	7	442 057	442 058
	Acc. BS 4825									
	Diaphragm material EPDM									
	8	1/4"	8	25.0	1.0	40	5.0-7	10	441 247	441 248
	10	3/8"	8	25.0	1.0	40	5.0-7	10	441 255	441 256
	15	1/2"	15	25.0	4.0	50	5.0-7	8.5	441 337	441 338
	25	1"	25	50.5	12.0	80	5.5-7	10	441 388	441 389
40	1 1/2"	40	50.5	30.0	100	5.5-7	6.5	441 446	441 447	
50	2"	50	64.0	51.5	125	5.5-7	8.0	441 501	441 502	
Diaphragm material PTFE/EPDM										
8	3/8"	8	25.0	1.0	40	5.0-7	10	441 987	441 988	
10	1/2"	8	25.0	1.0	40	5.0-7	10	441 991	441 992	
15	3/4"	15	25.0	4.5	63	5.0-7	10	441 995	441 996	
25	1"	25	50.5	12.0	80	5.5-7	7.5	441 999	442 000	
40	1 1/2"	40	50.5	30.5	125	5.5-7	10	442 003	442 004	
50	2"	50	64.0	51.5	125	5.5-7	7.0	442 007	442 008	

i Further versions on request

> Additional
Versions with reduced spring force

Dimensions [mm]

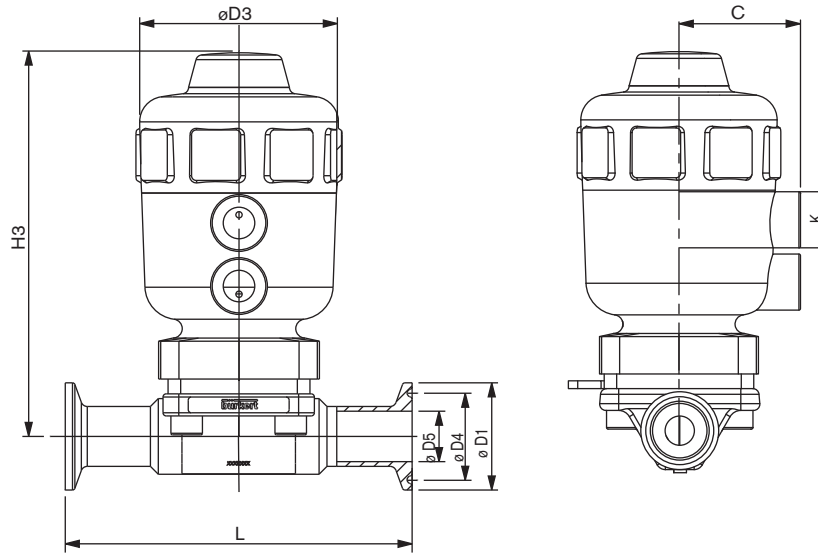
Body with weld end



Port connection		Actuator size									
[mm]	[inch]	Ø	C	K	L	H3	ØD3	ØD1	s	ØD1	s
Acc. EN ISO 1127/ISO 4200 and SMS 3008								EN ISO 1127/ISO 4200		SMS 3008	
8	1/4"	40	34	G 1/8	90.0	85.0	53.0	13.5	1.6	–	–
10	3/8"	40	34	G 1/8	90.0	85.0	53.0	17.2	1.6	–	–
15	1/2"	50	39	G 1/8	110.0	121.0	64.0	21.3	1.6	–	–
		63	52	G 1/4	110.0	138.0	80.0	21.3	1.6	–	–
20	3/4"	63	52	G 1/4	119.0	148.0	80.0	26.9	1.6	–	–
		80	60	G 1/4	119.0	174.0	101.0	26.9	1.6	–	–
25	1"	63	52	G 1/4	129.0	157.0	80.0	33.7	2.0	25.0	1.2
		80	60	G 1/4	129.0	177.0	101.0	33.7	2.0	25.0	1.2
32	1 1/4"	100	73	G 1/4	161.0	233.0	127.0	42.4	2.0	–	–
		125	86	G 1/4	161.0	272.0	153.0	42.4	2.0	–	–
40	1 1/2"	100	73	G 1/4	161.0	233.0	127.0	48.3	2.0	38.0	1.2
		125	86	G 1/4	161.0	272.0	153.0	48.3	2.0	38.0	1.2
50	2"	100	73	G 1/4	192.0	244.0	127.0	60.3	2.0	51.0	1.2
		125	86	G 1/4	192.0	278.0	153.0	60.3	2.0	51.0	1.2
Acc. to DIN 11850								DIN 11850			
Series 0											
4	–	40	34	G 1/8	90.0	85.0	53.0	6.0	1.0		
6	–	40	34	G 1/8	90.0	85.0	53.0	8.0	1.0		
Series 2											
10	3/8"	40	34	G 1/8	90.0	85.0	53.0	13.0	1.5		
15	1/2"	50	39	G 1/8	110.0	121.0	64.0	19.0	1.5		
		63	52	G 1/4	110.0	138.0	80.0	19.0	1.5		
20	3/4"	63	52	G 1/4	119.0	148.0	80.0	23.0	1.5		
		80	60	G 1/4	119.0	174.0	101.0	23.0	1.5		
25	1"	63	52	G 1/4	129.0	157.0	80.0	29.0	1.5		
		80	60	G 1/4	129.0	177.0	101.0	29.0	1.5		
40	1 1/2"	100	73	G 1/4	161.0	233.0	127.0	41.0	1.5		
		125	86	G 1/4	161.0	272.0	153.0	41.0	1.5		
50	2"	100	73	G 1/4	192.0	244.0	127.0	53.0	1.5		
		125	86	G 1/4	192.0	278.0	153.0	53.0	1.5		

Dimensions [mm]

Body with clamp connection



Port connection		Actuator size									
[mm]	[inch]	Ø	C	K	L	H3	ØD3	ØD1	ØD4	ØD5	ØD5
Acc. ISO 2852/SMS 3017 and SMS 3008										ISO 2852	DIN 32676
15	1/2"	50	39	G 1/8	110.0	121.0	64.0	34.0	27.5	–	16.0
		63	52	G 1/4	110.0	138.0	80.0	34.0	27.5	–	16.0
20	3/4"	63	52	G 1/4	119.0	148.0	80.0	34.0	27.5	–	20.0
		80	60	G 1/4	119.0	174.0	101.0	34.0	27.5	–	20.0
25	1"	63	52	G 1/4	129.0	157.0	80.0	50.5	43.5	22.6	26.0
		80	60	G 1/4	129.0	177.0	101.0	50.5	43.5	22.6	26.0
40	1 1/2"	100	73	G 1/4	161.0	233.0	127.0	50.5	43.5	35.6	38.0
		125	86	G 1/4	161.0	272.0	153.0	50.5	43.5	35.6	38.0
50	2"	100	73	G 1/4	192.0	244.0	127.0	64.0	56.5	48.6	50.0
		125	86	G 1/4	192.0	278.0	153.0	64.0	56.5	48.6	50.0
Acc. BS 4825										BS 4825	
8	3/8"	40	34	G 1/8	89.0	85.0	53.0	25.0	20.22	7.1	
10	1/2"	40	34	G 1/8	89.0	85.0	53.0	25.0	20.22	10.3	
15	3/4"	50	39	G 1/8	102.0	121.0	64.0	25.0	20.22	16.7	
		63	52	G 1/4	102.0	138.0	80.0	25.0	20.22	16.7	
25	1"	63	52	G 1/4	114.0	157.0	80.0	50.5	43.5	22.2	
		80	60	G 1/4	114.0	177.0	101.0	50.5	43.5	22.2	
40	1 1/2"	100	73	G 1/4	140.0	233.0	127.0	50.5	43.5	34.9	
		125	86	G 1/4	140.0	272.0	153.0	50.5	43.5	34.9	
50	2"	100	73	G 1/4	159.0	244.0	127.0	64.0	56.5	47.6	
		125	86	G 1/4	159.0	278.0	153.0	64.0	56.5	47.6	

Ordering information for valve system On/Off Classic Type 8801-DB/8803-DB

A valve system On/Off Classic Type 8801-DB/8803-DB consists of a diaphragm valve **Type 2031** and a valve actuation system control head **Type 8691**, a pneumatic control unit **Type 8690** or an electrical position feedback **Type 1062** (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.

Ordering the valve system On/Off Classic Type 8801-DB/8803-DB

Diaphragm valve Type 2031 with required port connection



Control units



8691



8690



1062

Diaphragm valve with desired control unit



**Valve system
On/Off Classic
Type 8801-DB-H
2031 + 8691**



**Valve system
On/Off Classic
Type 8801-DB-K
2031 + 8690**



**Valve system
On/Off Classic
Type 8803-DB
2031 + 1062**

When you 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 8691



**More
info.**

The new generation of integrated control heads for combination with actuators from the process valve series Type 20xx/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:

- 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

Pneumatic control unit Type 8690



**More
info.**

The new generation of integrated controllers for combination with actuators from the process valve series Type 20xx/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:

- 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

Electrical position feedback Type 1062



**More
info.**

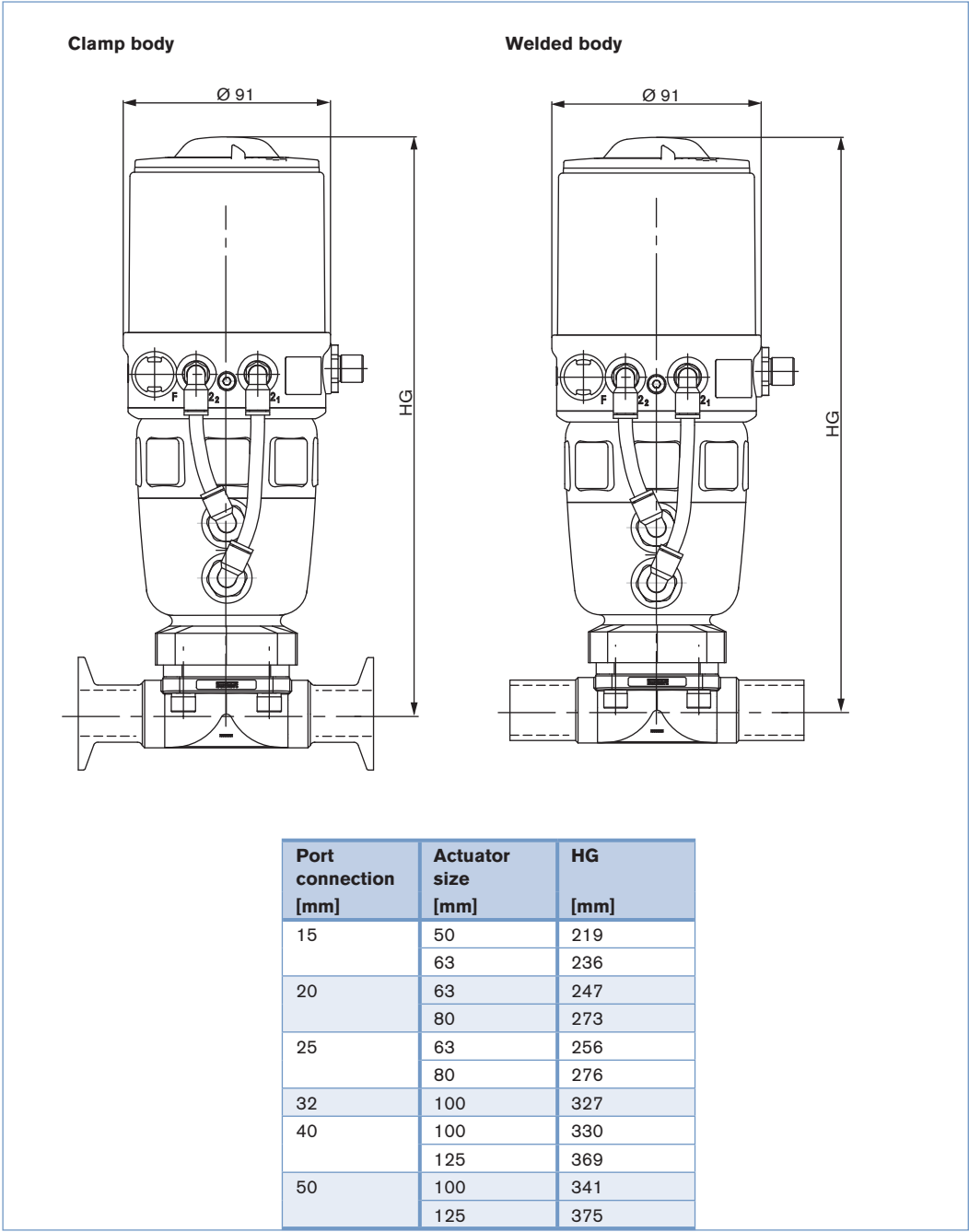
Positions are electrically signalized according to switch type:

- open,
- closed or
- open and closed.

LEDs provide optical position indication (except for Namur Ex-version). Mechanical or inductive switches are housed in a compact splash-proof enclosure. The position indicator can be rotated 360° and is easily fitted to the valve. Trip cams do not require adjustment. The unit only needs to be screwed on and connected to be ready for operation.

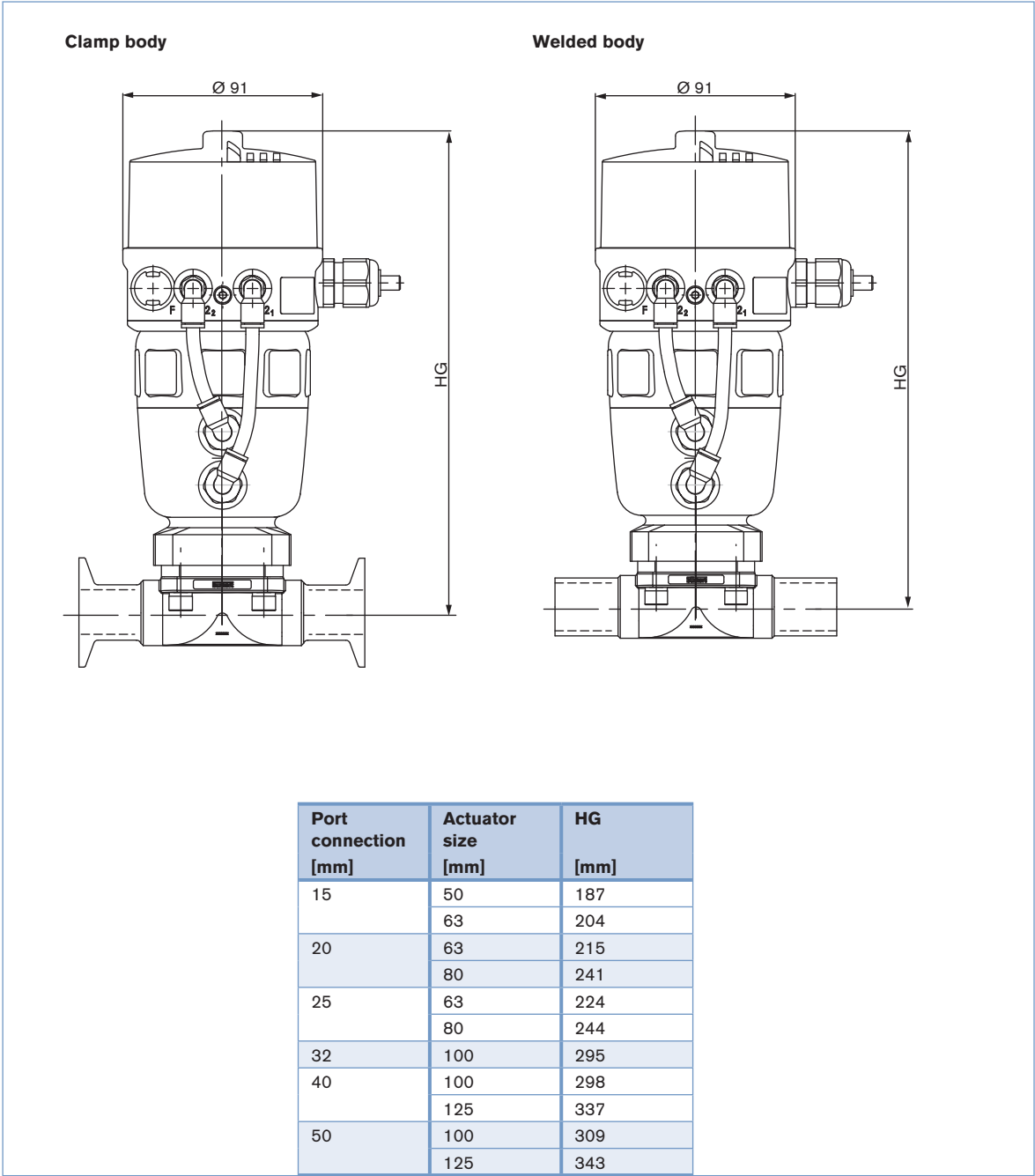
Dimensions for valve system On/Off Classic Type 8801-DB-H [mm]

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



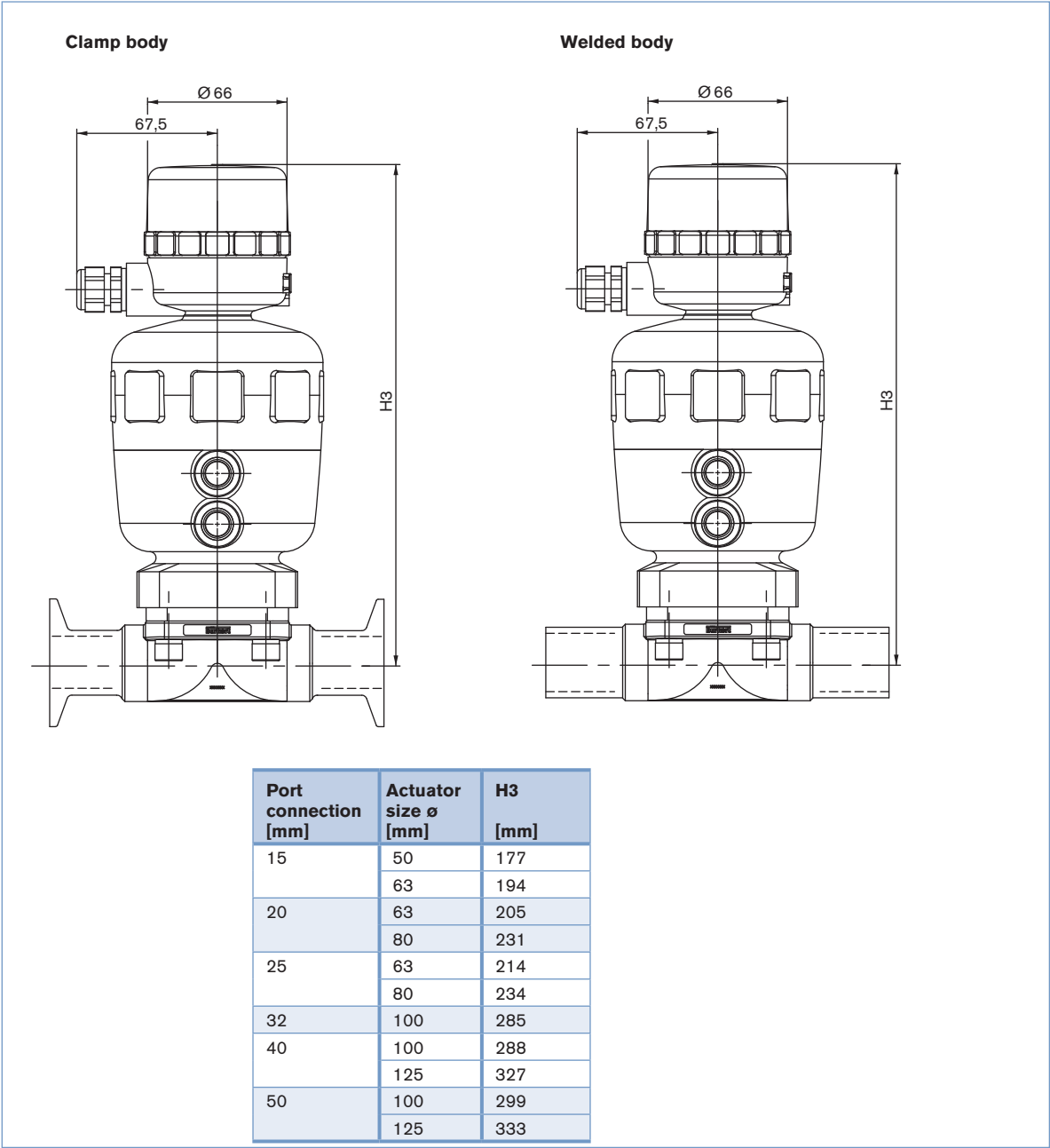
Dimensions for valve system On/Off Classic Type 8801-DB-K [mm]

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



Dimensions for valve system On/Off Classic Type 8803-DB [mm]

Dimensions valve system On/Off Classic Type 8803-DB with electrical position feedback Type 1062 [mm]



Valve system On/Off Classic Type 8801-DB/8803-DB – request for quotation

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

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

☐ = mandatory fields to fill out

Quantity

Required delivery date

Operating data

Pipeline	DN		PN	
Pipe material				
Process medium				
Type of medium	☐ Liquid	☐ Steam	☐ Gas	
	standard	unit		
Flow rate (Q, Q _N , W) ¹⁾				
Temperature at valve inlet				
Absolute pressure at valve inlet				
Steam sterilisation	temperature			

¹⁾ standard unit: Liquid Q = m³/h; Steam W = kg/h; Gas Q_N = Nm³/h

Valve features

Specification key

automatically transferred from last page

go to page

☐	☐	☐	☐	☐	☐	☐	☐
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Surface finish (if not standard)

internal µm

external µm

Pilot pressure

min.

max.

Control unit features

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 8691

More info.

Pneumatic function

☐ Single-acting ☐ Double-acting

Pilot air ports

☐ Push-in connector external ø 6 mm or 1/4"

☐ Thread G 1/8"

Communication

☐ ASI

☐ Multipol M12

☐ Flat cable clip, 1 m cable

☐ DeviceNet

Please specify item no. if known:

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 ☐ Thread G 1/8"
external ø 6 mm or 1/4"

Please specify item no. if known:

Electrical position feedback

☐ Type 1062

More info.

Limit switches

☐ mechanical

☐ Voltage 12-48 V

☐ Voltage 110-250 V

☐ inductive

☐ NAMUR EExi

Status

☐ closed

☐ open

☐ open/closed

Please specify item no. if known:

continued on next page →

Valve system On/Off Classic Type 8801-DB/8803-DB – request for quotation, *cont.*

Control unit features

Pilot valve

☐ Pilot valve

Power supply

Please specify item no. if known:

Stroke limitation

☐ Stroke limitation

☐ Min./max. stroke limitation, with visual position indicator

☐ Max. stroke limitation, without visual position indicator

Please specify item no. if known:

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 (Item-No. 803 723)
- ☐ EN161 (European Gas Device guideline)
- ☐ FDA - USP certificate

Comment / sketch

Valve features, specification key

Example

A 15 AB VG SA42 D D NO16

Specification key

Please make a choice

CONTROL FUNCTION

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

ORIFICE (Diaphragm size) [mm]

08
15
20
25
40
50

SEAL MATERIAL

AB	EPDM in food quality
EA	PTFE/EPDM
FF	FKM
EU	advanced PTFE/EPDM in two pieces
ET	advanced PTFE (bonded on EPDM)

BODY MATERIAL

Standard	VG	Cast stainless steel 316L/1.4435
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VARIABLE CODES

Surface finish, internal

NO06	Mechanical polished Ra=0.8 µm
NO16	Electro polished Ra=0.6 µm

ACTUATOR SIZE ¹⁾

C	ø 40 mm
D	ø 50 mm
E	ø 63 mm
F	ø 80 mm
G	ø 100 mm
H	ø 125 mm

¹⁾ for technical spec. see table, page 2

ACTUATOR MATERIAL

C	PA	
D	PPS	Standard



PORT CONNECTION

Welded

Port conn. [mm]	EN ISO 1127/ ISO 4200	SMS 3008	DIN 11850				BS 4825	ASME BPE	JIS Sanitary	JIS Utility
			Serie 0	Serie 1	Serie 2	Serie 3				
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	SE40=14x20.0	SODC=9.53x1.2	SA91=9.53x0.89	SA71=17.3x1.65	
15	SA42=21.3x1.6		SC43=18x1.5	SF41=18x1.0	SD42=19x1.5	SE42=20x2.0	SODD=12.7x1.2	SA92=12.7x1.65	SA72=21.7x2.1	
20	SA43=26.9x1.6		SC44=22x1.5	SF42=22x1.0	SD43=23x1.5	SE43=24x2.0	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	SC45=28x1.5	SF43=28x1.0	SD44=29x1.5	SE44=30x2.0	SODF=25.4x1.65	SODF=25.4x1.65	SA73=25.4x1.2	SA81=34x2.0
32	SA45=42.4x2.0		SC46=34x1.5	SF44=34x1.0	SD45=35x1.5	SE45=36x2.0				SA83=42.7x2.0
40	SA46=48.3x2.0	SA62=38.0x1.2	SC47=40x1.5	SF45=40x1.0	SD46=41x1.5	SE46=42x2.0	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	SC48=52x1.5	SF46=52x1.0	SD47=53x1.5	SE47=54x2.0	SODI=50.8x1.65	SODI=50.8x1.65	SA75=50.8x1.5	

Clamp

Port conn. [mm]	ISO 2852 SMS 3017	BS4825	DIN 32676
8	TC51=Clamp 34 - for tube ISO 4200	TG41=Clamp 25 - Rohr 9.53x1.2	
10	TC41=Clamp 34 - for tube ISO 4200	TH42=Clamp 25 - Rohr 12.7x1.2	TD41=Clamp 34 - Tube 13x1.5
15	TC42=Clamp 34 - for tube ISO 4200	TH43=Clamp 25 - Rohr 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 - Rohr 25.4x1.65	TD44=Clamp 50.5 - Tube 29x1.5
40	TC46=Clamp 64 - for tube ISO 4200	TG45=Clamp 50.5 - Rohr 38.1x1.65	TD46=Clamp 50.5 - Tube 41x1.5
50	TC47=Clamp 77.5 - for tube ISO 4200	TG46=Clamp 64 - Rohr 50.8x1.65	TD47=Clamp 64 - Tube 53x1.5

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

Subject to alterations
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