



้า**จำกัด** 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

Flu:Tecl

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



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1. General technical data

Detailed information can be found in chapter "4. Dimensions" on page 7.
Detailed information can be found in chapter "Materials" on page 5.
Angle seat on/off valve
DN1550, NPS ½2
With SAFEPOS energy-pack: open, closed or freely programmable
Without SAFEPOS energy-pack: blocked in last position
Against closing direction (below seat)
4 kg (only actuator, total weight depends on the port connection)
025 bar(g) (see "5.1. Fluidic data" on page 12) Vacuum version up to - 0.9 bar(g) (optional)
PN25 (DIN EN 1333), Class 150 (DIN EN 1759)
562 m ³ /h (see "5.1. Fluidic data" on page 12)
2.36.2 s (depending on travel speed and stroke)
6 mm/s (for actuator force 1300 N) 4 mm/s (for actuator force 2500 N)
24 V DC ± 10 % (max. residual ripple 10 %)
Max. 3 A (at max. load and including 1 A charging current of the optional SAFEPOS energy-pack)
At minimum operating temperature additionally 2 A
3 ()
100 %
24 W
05 V (log. 0) 1030 V (log. 1)
Bürkert system bus (büS) (Standard) CANopen (optional) EtherNet/IP, PROFINET, Modbus/TCP (optional via integrated gateway)
Steam, neutral gases, water, alcohols, oils, fuels, hydraulic fluids, salt solutions, lyes, organic solvents, oxygen (optional)
40+230 °C (see "5.2. Operating limits" on page 13)
Up to 600 mm ² /s
ion
DIN EN ISO 1127/ISO 4200/DIN11866 B
DIN 11850 2/DIN 11866 A ASME BPE/DIN 11866 C SMS 3008
DIN 32676 B (pipe ISO 4200) DIN 32676 A (pipe DIN 11850 2) ASME BPE
G (EN ISO 228-1) Rc (ISO 7/1/DIN EN 10226-2) NPT (ASME B 1.20.1)
Terminal strip with cable gland, 2 x M20 or 2 M12 circular plugs, 5 pin and 8 pin
2 M12 circular sockets, 4 pin (only with Industrial Ethernets)
Food EGV 1935/2004 FDA (optional)

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Environment and installation	
Ambient temperature	 -25+65 °C (only without additional modules) (De-rating see "Operating limits for ambient and medium temperature" on page 14)
Degree of protection	IP65/IP67 (DIN EN 60529), NEMA 4X
Vibration and shock resistance	
Vibration, sinusoidal	5 g (IEC 60068-2-6 Test Fc)
Shock, mechanical	50 g (IEC 60068-2-27 Test Ea)
Installation position	Any, preferably actuator face up

1.) All values refer to a supply voltage of 24 V at 25 °C.

2.) Others on request

2. **Approvals**

2. Approvals	ะากิด
Approvals	Description
רד	Food produce contact Materials in contact with medium conform to EC regulation 1935/2004 (optional) Materials in contact with medium conform to FDA (optional)
H ₂ O	Drinking water Suitable for use with drinking water according to KTW, W270 (optional)
O ₂	Oxygen Suitable for use with gaseous oxygen (optional)
<pre> < Ex </pre>	Explosion proof As category 3 device suitable for zone 2/22 (optional)
TEĈEX	ATEX • II 3G Ex ec IIC T4 Gc • II 3D Ex tc IIIC T135 °C Dc
	 Ex ec IIC T4 Gc Ex ec IIC T4 Gc
	Ex tc IIIC T135 °C Dc Safety requirements UL-listed cULus Cert. No. 238179 (optional)
Standards	Description
powered by	Field device for integration into the EDIP platform via Bürkert system bus (büS)

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3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



Bürkert resistApp – Chemical Resistance Chart

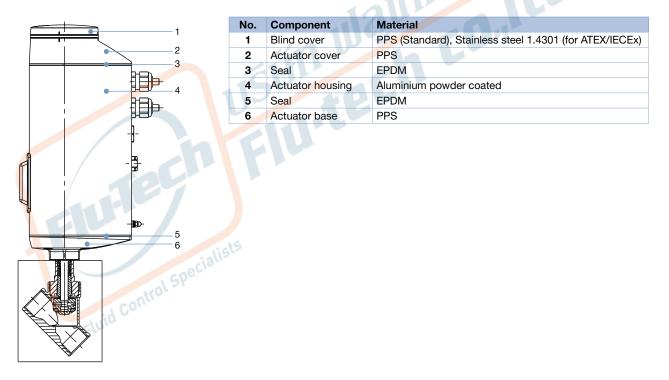
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start Chemical Resistance Check

3.2. Material specifications

Note:

The Type 3320 angle seat valve is supplied with various port connections (flange, thread, welded and clamp connections). These connections are not shown. They are the same material as the valve body.



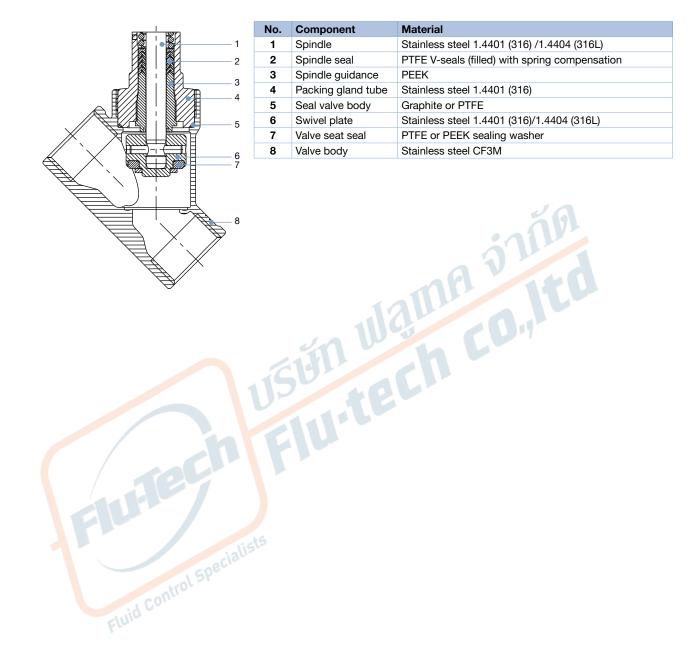
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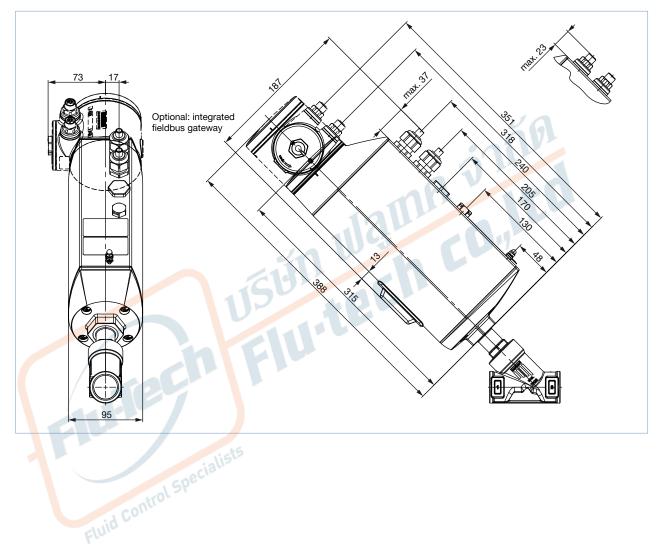


4. Dimensions

4.1. Actuator

Note:

Dimensions in mm, unless otherwise stated

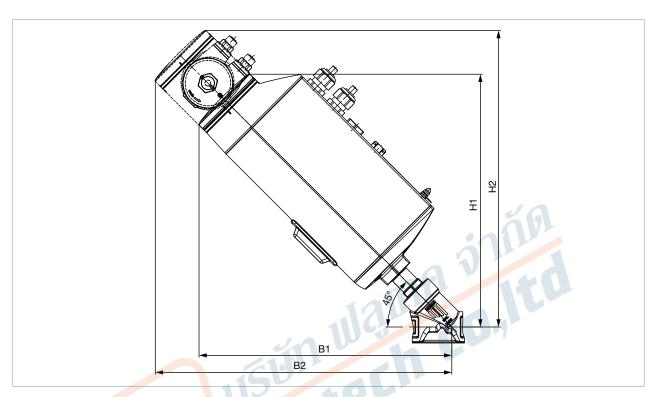


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Nominal diameter	(Pipe)	Height/Width ^{1.)}		
DN	NPS	H1/B1	H2/B2 ^{2.)}	
15	1/2	311	362	
20	3⁄4	<mark>3</mark> 19	369	
<mark>2</mark> 5	1	<mark>3</mark> 21	372	
32	1¼	3 <mark>3</mark> 0	381	
40	11/2	3 <mark>3</mark> 3	384	
50	2	<mark>36</mark> 7	418	

Dimensions without tight-closing function: in closed position the actuator additionally lifts by approx. 2 mm. Body with threaded connection.
 Optional: integrated fieldbus gateway

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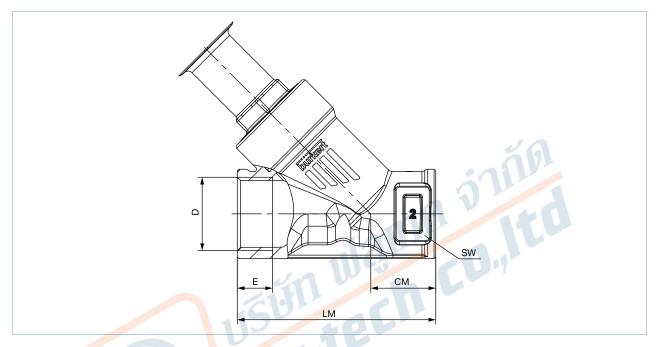
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4.2. Body with threaded connection

Note:

Dimensions in mm, unless otherwise stated



Nominal diameter		G (DIN ISO 228-1), NPT (ASME B 1.20.1), Rc (ISO7-1)									
(Pipe)	D	E			СМ	LM	SW				
DN	NPS	G	NPT	Rc							
<mark>1</mark> 5	1/2	14	13.7	13.2	24	65	27				
20	3⁄4	16	14.0	14.5	27	75	34				
25	1	18	16.8	16.8	29.5	90	41				
32	1¼	16	17.3	19.1	36	110	50				
40	11⁄2	18	17.3	19.1	35	120	55				
50	2	24	17.6	23.4	45	150	70				
Flui	Control Speci										

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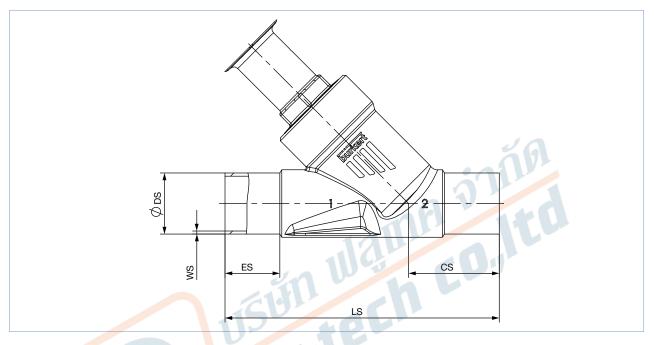
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4.3. Body with welded connection

Note:

Dimensions in mm, unless otherwise stated



Nominal diameter (Pipe)	ISO 420	DIN EN ISO 1127 ISO 4200 DIN 11866 B					DIN 11850 2 DIN 11866 A				
DN	ES	CS	LS	ØDS	WS	ES	CS	LS	ØDS	WS	
15	/ 19	34	100	21.3	1.6	19	34	100	19	1.5	
20	20	39	115	26.9	1.6	20	39	115	23	1.5	
25	26	43	130	33.7	2.0	26	43	130	29	1.5	
32	26	45	145	42.4	2.0	26	45	145	35	1.5	
40	26	49	160	48.3	2.0	26	49	160	41	1.5	
50	26	50	175	60.3	2.0	26	50	175	53	1.5	

Nominal diameter (Pipe)		SME BPE DIN 11866 C						
NPS	ES	CS	LS	ØDS	WS			
1⁄2	30	46	135	12.7	1.65			
3⁄4	30	52	145	19.05	1.65			
1	30	51	152	25.4	1.65			
1½	30	60	182	38.1	1.65			
2	30	64	210	50.8	1.65			
21⁄2	26	56	230	63.5	1.65			

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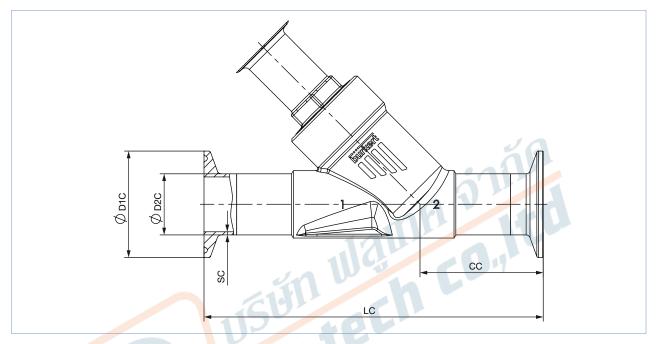
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4.4. Body with clamp connection

Note:

Dimensions in mm, unless otherwise stated



Nominal diameter (Pipe)	Clamp: DIN 32676 B Pipe: EN ISO 1127 1 ISO 4200 DIN 11866 B				Clamp: DIN 32676 A Pipe: DIN 11850 2 DIN 11866 A					
DN	LC	CC	ØDC1	ØDC2	SC	LC	СС	ØDC1	ØDC2	SC
15	156	49.0	50.5	21.3	1.6	130	49.5	19	34.0	1.5
20	150	56.5	50.5	26.9	1.6	150	57.0	23	34.0	1.5
25	160	58.0	50.5	33.7	2.0	160	58.5	29	50.5	1.5
32	200	57.5	50.5	42.4	2.0	180	58.0	35	50.5	1.5
40	200	69.0	64.0	48.3	2.0	200	69.5	41	50.5	1.5
50	230	77.5	77.5	60.3	2.6	230	78.0	53	64.0	1.5

Nominal diameter (Pipe)	Clamp: ASME BPE Pipe: ASME BPE DIN 11866 C				
NPS	LC	CC	ØDC1	ØDC2	SC
1/2	130	49.0	25.0	12.7	1.65
3⁄4	150	56.5	25.0	19.05	1.65
1	160	58.0	50.5	25.4	1.65
1½	200	69.0	50.5	38.1	1.65
2	230	77.5	64.0	50.8	1.65

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5. Performance specifications

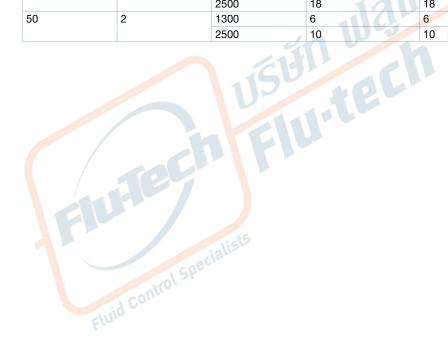
5.1. Fluidic data

Overview of flow characteristics with flow below seat

Note:

- K_v value [m³/h]: Measured with water acc. to DIN EN 60534-2-3
- Operating limits, see "5.2. Operating limits" on page 13

Nominal diameter (Pipe)		Actuator force	Actuator force Operating pressure			
			Seat seal			
			PTFE (up to +130 °C)	PEEK (up to +230 °C)		
DN	NPS	[N]	[bar(g)]	[bar(g)]		
15	1/2	1300	25	25	5	
20	3⁄4				11	
25	1				18	
32	1¼	1300	16	16	31	
		2500	25	25		
40	1½	1300	10	10	42	
		2500	18	18		
50	2	1300	6	6	62	
		2500	10	10		



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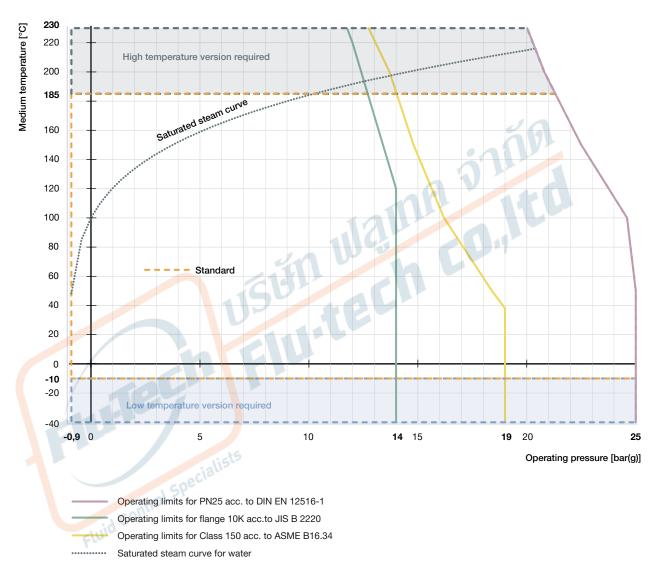
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5.2. Operating limits

Operating limits for medium temperature and operating pressure

The operating range of Bürkert process valves is in addition to the maximum operating pressures limited by the nominal pressure according to the relevant standard.



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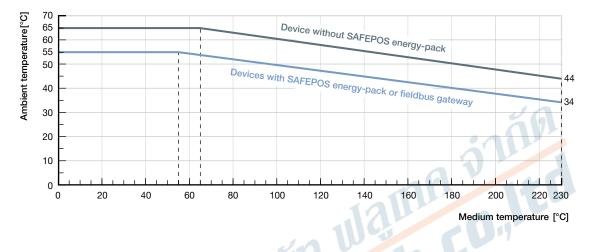
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Operating limits for ambient and medium temperature

The maximum permissible temperature for the environment and the medium are dependent on each other. The maximum allowable temperature curves of different device variants can be seen in the temperature chart. The curves were determined for maximum operating conditions (max. operating pressure and motor power). For deviating operating conditions an individual verification can be performed. Please contact your Bürkert office for more information.



Operating limits for seat seal

PTFE is used for max. medium temperature <130 °C. If the maximum medium temperature temporarily or permanently exceeds 130 °C, then PEEK as a seal material is the appropriate solution.

Operating limits for optional versions

High temperature version

By adapting the spindle sealing this version is suitable for applications with steam, neutral gases and other heat transfer mediums up to 230 °C.

Drinking water version

Materials in contact with the medium are tested for suitability with drinking water up to 85 °C.

Vacuum version

Without leakage bore, this design is suitable for pressures down to -0.9 bar(g).

Low temperature version

Suitable for minimum medium temperatures down to - 40 °C

Version for oxygen

Non-metallic materials in contact with the medium are tested for suitability with oxygen. Suitable for operating pressures up to 20 bar(g) and medium temperatures up to 60 °C.

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5.3. Electrical control and interfaces

Interface diagram

The position of the actuator is controlled according to the digital input. The selection is made either by an external standard signal or via a fieldbus (digital).

Inputs and outputs:

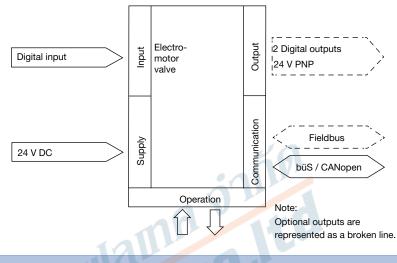
• 1 digital input, 2 digital outputs

Interface:

- Cable gland with connection terminal
- M12 circular plug-in connectors (optional)

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Control data	
Digital input	05 V = log "0", 1030 V = log "1" inverted input reversed accordingly
Digital output (optional)	Current limitation 100 mA
Communication	
Communication interface (büS)	Connection to PC via USB büS interface set (connection terminals, circular plug-in connector or büS service interface)
Communication software (büS)	Bürkert Communicator, see Type 8920 ►

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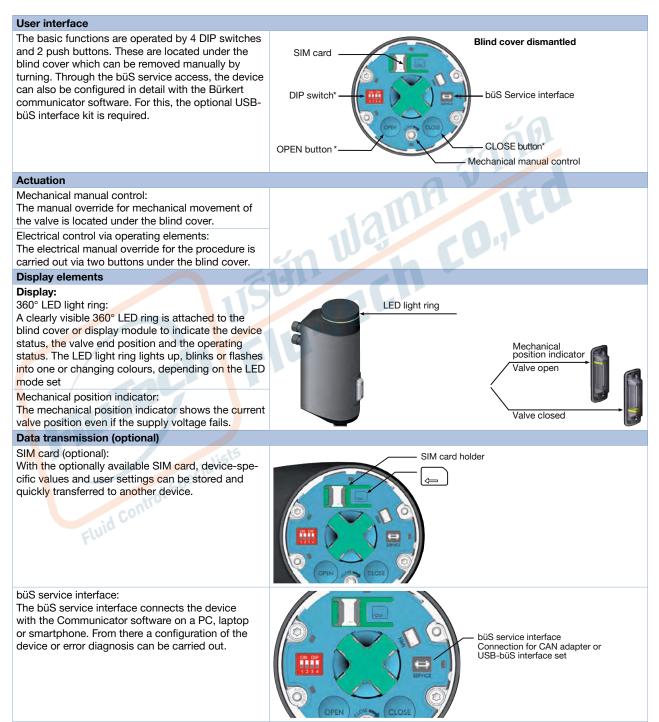


6. Product design and assembly

6.1. Product features

Note

More detailed information can be found in the operating instructions .



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The safety starting positions in case of power interruption is realized with the optional energy storage SAFEPOS energy-pack. The desired position is set via the menu. In addition to the end positions (open/ closed), any desired intermediate position can be defined here. The energy storage has a lifespan of up to 10 years, depending on the operating conditions. The power of the energy storage is monitored and a warning is displayed to indicate its life is coming to an end. The storage device is designed as a plug-in module to facilitate replacement. Without energy storage, the valve remains in the last position it was in. The energy storage device is fully charged and ready for operation after a maximum of 100 seconds (depending on the operating conditions). The energy storage device cannot be retrofitted in the field.

Fieldbus: EtherNet/IP, PROFINET, Modbus TCP (optional)

Fluid Control Specialists

The fieldbus gateway for EtherNet/IP, PROFINET and Modbus TCP is integrated in an additional module. It has 2 fieldbus connections with 4 pin M12 circular sockets. The interfaces for the fieldbus connection and the status LEDs are located under the gateway housing cover. If there is a need for it to be include in a network then the configuration of the Ethernet can be performed via the web server. The gateway cannot be retrofitted in the field. SAFEPOS energy-pack

Fieldbus gateway

IL.

Fieldbus M12 connection (2 Port Ethernet Switch)

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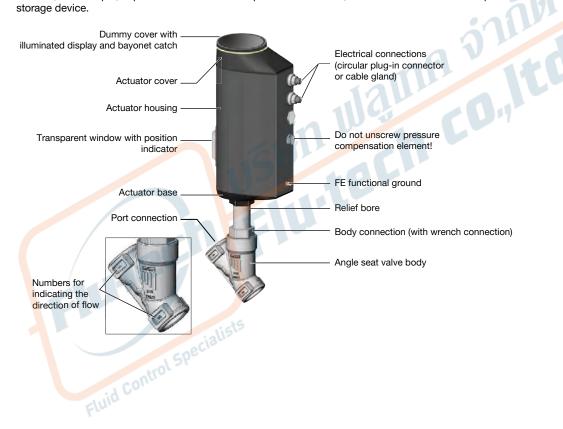


6.2. Product assembly

The electromotive linear drive consists of a brushless DC motor, a gear and a spindle system that transmits the force to the pendulum plate. The integrated control electronics are controlled either via standard signals (digital) or via a fieldbus (digital). It is designed to provide optimum efficiency. At the same time, it keeps the valve sealed and in position even at the maximum specified medium pressure in a powerless standstill. An optional energy storage device (SAFEPOS energy-pack) is available for the device. If the supply voltage fails, it supplies the actuator with the energy required to move the valve into the desired position; this is set in the menu. The valve position can be changed manually in 2 ways. Either via the electrical manual control or via a mechanical manual control if no supply voltage is available.

The device can be set and operated via 2 capacitive keys and 4 DIP switches. In addition there is always the possibility to operate the device via the büS service interface and using the "Bürkert Communicator" software.

The intelligent process valve Type 3320 offers the operator options for process monitoring, valve diagnostics and preventive maintenance. Internal measurements of the operating status are evaluated and issued as warnings or error messages, if necessary. These indicate, for example, impermissible ambient and process conditions, functional deviations of components or the status of the energy storage device.



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845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



7. Ordering information

7.1. Bürkert eShop – Easy ordering and quick delivery



Bürkert eShop - Easy ordering and fast delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

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7.2. Bürkert product filter



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7.3. Ordering chart accessories

Standard accessories

Description	Article no.
SIM card for data transmission between devices	291773 🛒
Holding device for port connection DN1540	693770 🐖
Holding device for port connection DN50	693771 🛒
Plastic blind cover	277881 🛒
Energy storage SAFEPOS energy-pack	285834 📜
Accessories cable control Specific	

Accessories cable

Note:

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For connection to a büS/CANopen network see cabling guide >.

Description	Article no.
Connection cable with M12 socket, 4 pin, (length 5 m) for operating voltage (without communication)	918038 ቛ
Connection cable with M12 socket, 8 pin, (length 2 m) for input and output signals	919061 ቛ

Bürkert accessories

Note:

- For connection to a büS/CANopen network see cabling guide . ٠
- Detailed accessory tables can be found in the cabling guide.

FLU-TECH CO., LTD

Description	Article no.
Software Bürkert Communicator, Type 8920	LINK 🕨
büS stick set 1 (including power supply unit, bus-stick, terminating resistor, Y-distributor, 0.7 m cable with M12 connector)	772426 😕
büS stick set 2 (including bus-stick, terminating resistor, Y-distributor, 0.7 m cable with M12 connector)	772551 🛒
büS adapter for büS interface set (M12 on büS service interface Micro-USB)	773254 🛒

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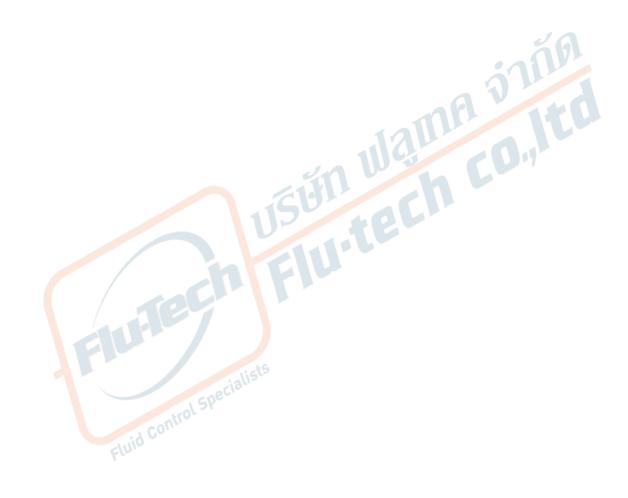
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7.4. Bürkert product enquiry form

Bürkert product enquiry form: Would you like to make a specific product enquiry based on your technical requirements? Please use our product enquiry form at the end of this data sheet. There you will find all the information relevant to your Bürkert contact person that will help us to process your enquiry in the best possible way.

Bürkert specification key: In our product enquiry form you will find a complete explanation of the composition of our specification key. You will find our product enquiry form **at the end of this data sheet**.



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