



Direct-acting 2-way proportional valve

- Proportional valve for use in flow or pressure control loops
- Integrated shut-off function with reliably high tightness
- Excellent sensitivity and turn-down ratio
- Available as subbase or cartridge variant for simple system integration
- Protection class IP65 or IP6K9K with automotive connector

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type 6027 Direct-acting 2/2-way plunger valve	►
	Type 6030 Direct-acting 2/2-way direct-acting plunger valve	►
	Type 6440 Servo-assisted 2/2-way piston valve	►
	Type 8325 Pressure transmitter for general applications, 0...25 bar	►

Type description

The direct-acting proportional valve Type 6020 can be used as a control valve for closed-loop process control, typically for automatic setpoint control of flow or pressure values. Due to an elastomeric seat seal, the valve closes tight in the range of the nominal pressure related to the orifice size (integrated shut-off function). This valve is particularly suitable for use with gases such as hydrogen, oxygen or fuel gases. Compared to conventional proportional valves, the valve can be operated at higher supply pressures. For optimized use in fuel cell systems, cartridge and subbase (manifold) valve bodies as well as solenoids with automotive connector of protection class IP6K9K are available.

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1. General technical data

Product properties		
Dimensions	Further information can be found in chapter "5. Dimensions" on page 7 .	
Material		
Seal	EPDM, FKM	
Body	Stainless steel 1.4404/316L	
Coil	Epoxy	
Tightness	1× 10 ⁻⁴ mbar l/s	
Orifice	DN 0.8...DN 8	
Circuit function	A Further information can be found in chapter "2. Circuit functions" on page 4 .	
Thermal insulation class of solenoid	Epoxy coil class H	
Performance data		
Typical values of positioning behaviour^{2,3)}		
Response sensitivity	< 1 % FS ^{3,)}	
Hysteresis	< 15 %	
Repeat accuracy	< 1 % FS ^{3,)}	
Setting range	1:100	
Actuating time (10...90 %)	< 25 ms	
Pressure		
Burst pressure	Coil size 32 mm and 40 mm (AC10) 250 bar for threaded body 150 bar for sub-base body (FK01) 150 bar for cartridge body (FC24)	Coil size 42 mm (AC19) 250 bar for threaded body 250 bar for sub-base body (FK15) 110 bar for cartridge body (FC17)
Differential pressure ^{1,)}	0...30 bar Further information can be found in chapter "8. Ordering information" on page 20 .	
Duty cycle	100 % continuous operation	
Electrical data		
Operating voltage	12 V DC, 24 V DC	
Power consumption	Coil size 32 mm and 40 mm (AC10) 7 W (up to + 85 °C T _{umg}) 7.5 W (up to + 85 °C T _{umg})	Coil size 42 mm (AC19) 16 W (up to + 85 °C T _{umg}) 18 W (up to + 70 °C T _{umg})
Maximum coil current	Coil size 32 mm and 40 mm (AC10) 24 V/7 W: 310 mA 24 V/7.5 W: 340 mA 12 V/7 W: 600 mA 12 V/7.5 W: 630 mA	Coil size 42 mm (AC19) 24 V/16 W: 760 mA 24 V/18 W: 810 mA 12 V/16 W: 1430 mA 12 V/18 W: 1530 mA
PWM frequency ^{4,)}	300...400 Hz	
Medium data		
Operating medium	Neutral gases, liquids on request Optimized for hydrogen	
Medium temperature	- 40 °C...+ 90 °C (with EPDM) - 10 °C...+ 90 °C (with FKM)	
Viscosity	Max. 21 mm ² /s (21 cSt)	
Product connections		
Electrical connection	Plug contacts according to DIN EN 175 301 - 803 form A for cable plug Type 2518 ►. Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 24 . Automotive plugs for IP6K9K coil variants: Plug KOSTAL MLK1.2, 2-pin, coding A (male) Plug TE MCON 1.2, 2-pin, coding A (male) (further plug forms on request)	
Port connection	Cartridge, sub-base, G ⅛, G ¼, G ⅜, G ½, NPT ⅛, NPT ¼, NPT ⅜, NPT ½	

Approvals and conformities

Degree of protection

Standard	IP65 with cable plug Type 2518 ▶ NEMA 4X with cable plug Type 2509 ▶ for stainless steel variants (further variants on request)
Automotive coil	IP6K acc. to ISO 20653:2013 IPX7 acc. to ISO 20653:2013 (submersion test acc. to ISO 16750 - 4:2010) IPX9K acc. to ISO 20653:2013 This degree of protection can only be guaranteed as long as the coil is not removed from the valve.
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 5.
North America (USA/Canada)	Further information can be found in chapter "3.5. North America (USA/Canada)" on page 6.

Environment and installation

Installation position	As required, preferably with actuator upright
Ambient temperature	- 40 °C...+ 85 °C (7...16 W, with EPDM) - 40 °C...+ 70 °C (18 W, with EPDM) - 10 °C...+ 85 °C (7...16 W, with FKM) - 10 °C...+ 70 °C (18 W, with FKM)
Storage temperature	- 40 °C...+ 80 °C EPDM - 20 °C...+ 80 °C FKM

- 1.) Pressure data: overpressure to atmospheric pressure, depending on nominal diameter, tightness seal or nominal pressure
2.) Characteristic data of control behaviour depends on process conditions.
3.) For flow rate measurement
4.) PWM: pulse-width modulation

2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid proportional control valve Direct-acting Normally closed

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Explosion protection

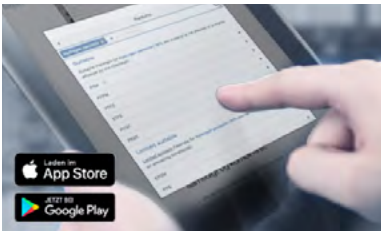
Approval	Description										
 	Optional: Explosion protection according to category 2 (zone 1/21) Ex marking of the components according to the following table: <table><tr><th>Coil Type AC10</th><th>Coil Type AC19</th></tr><tr><th colspan="2">Coil with cable outlet</th></tr><tr><td> ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db IECEX: IECEX EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db </td><td> ATEX: EPS 16 ATEX 1072 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db IECEX: IECEX EPS 16.0030 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db </td></tr><tr><th colspan="2">Coil with terminal box</th></tr><tr><td> ATEX: EPS 18 ATEX 1232 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db IECEX: IECEX EPS 18.0110 X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db </td><td> ATEX: EPS 16 ATEX 1072 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db IECEX: IECEX EPS 16.0030 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db </td></tr></table>	Coil Type AC10	Coil Type AC19	Coil with cable outlet		ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db IECEX: IECEX EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db	ATEX: EPS 16 ATEX 1072 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db IECEX: IECEX EPS 16.0030 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	Coil with terminal box		ATEX: EPS 18 ATEX 1232 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db IECEX: IECEX EPS 18.0110 X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db	ATEX: EPS 16 ATEX 1072 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db IECEX: IECEX EPS 16.0030 X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db
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	Optional: Explosion protection according to category 3 (zone 2/22) Ex marking of the components according to the following table: <table><tr><th>Coil Type AC10</th><th>Coil Type AC19</th></tr><tr><th colspan="2">Coil with plug contacts form A and cable plug Type 2509</th></tr><tr><td> ATEX: EPS 21 ATEX 1234 X II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135 °C Dc IECEX: IECEX EPS 21.0078X Ex ec IIC T4 Gc Ex tc IIIC T135 °C Dc </td><td> ATEX: EPS 22 ATEX 1136 X II 3G Ex ec IIC T3 Gc II 3D Ex tc IIIC T200 °C Dc IECEX: IECEX EPS 22.0018 X Ex ec IIC T3 Gc Ex tc IIIC T200 °C Dc </td></tr></table>	Coil Type AC10	Coil Type AC19	Coil with plug contacts form A and cable plug Type 2509		ATEX: EPS 21 ATEX 1234 X II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135 °C Dc IECEX: IECEX EPS 21.0078X Ex ec IIC T4 Gc Ex tc IIIC T135 °C Dc	ATEX: EPS 22 ATEX 1136 X II 3G Ex ec IIC T3 Gc II 3D Ex tc IIIC T200 °C Dc IECEX: IECEX EPS 22.0018 X Ex ec IIC T3 Gc Ex tc IIIC T200 °C Dc				
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3.5. North America (USA/Canada)

Approval	Description
	Optional: UL Hazardous Locations – Explosion Protection (valid for coils) UL Listed for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 2, Group A, B, C and D Class II + III, Division 2, Group F and G

4. Materials

4.1. 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](#)

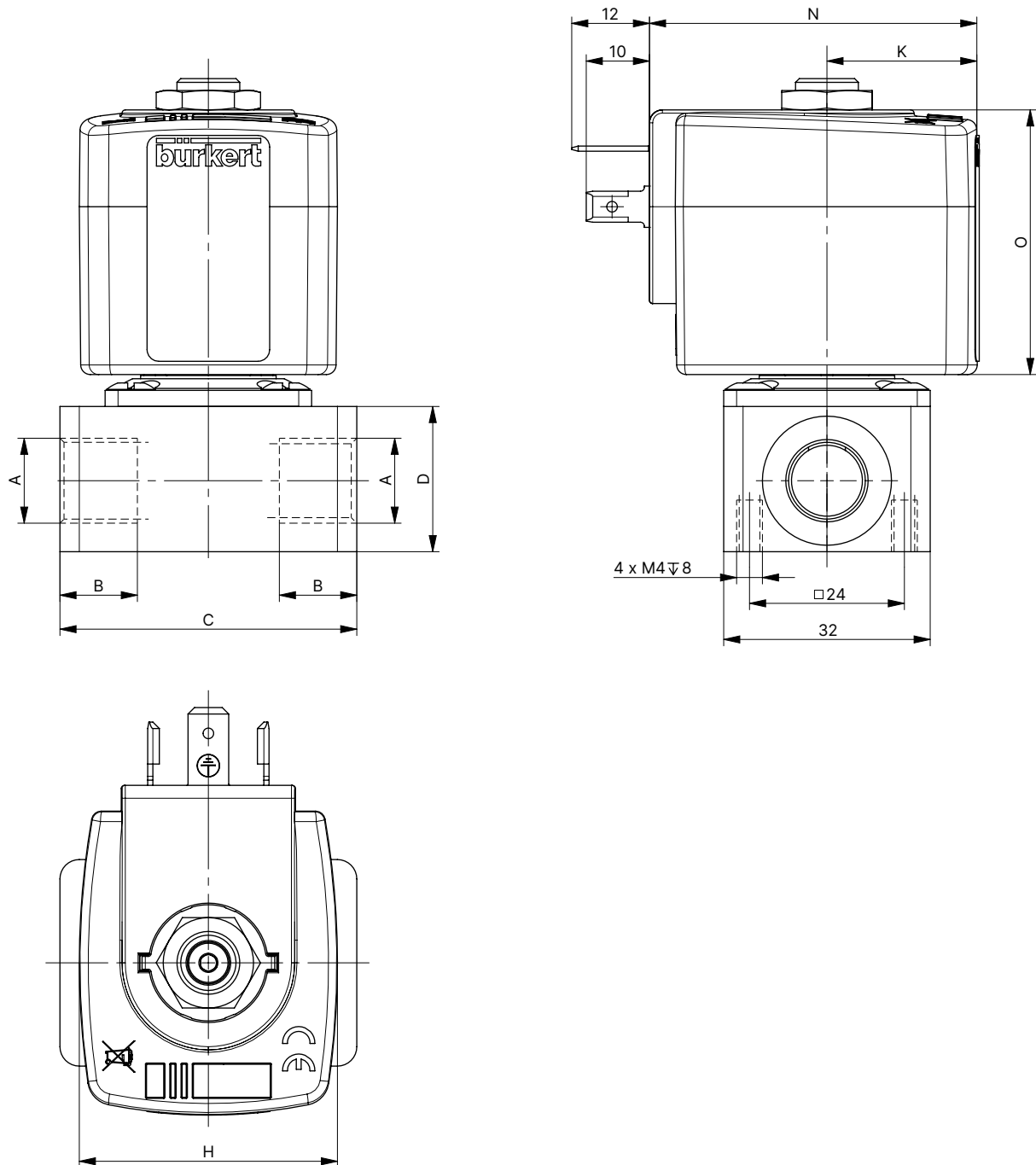
5. Dimensions

5.1. Threaded variant

Complete valve with coil size 32 mm and 40 mm (AC10)

Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter [“Solenoid coil in coil size 32 mm and 40 mm \(AC10\)”](#) on [page 8](#).



A (port connection)	B	C	D
[inch]	[mm]	[mm]	[mm]
G 1/8	8	32	17.5
G 1/4	12	46	22.5

Solenoid coil in coil size 32 mm and 40 mm (AC10)

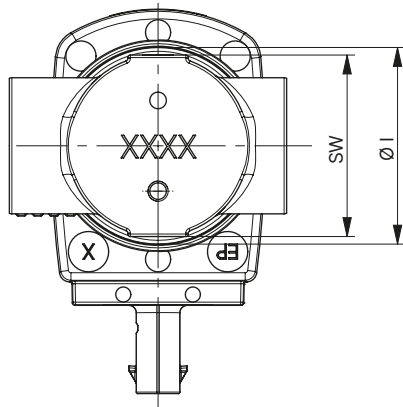
Note:
The corresponding dimensions to the letters mentioned can be found in chapter [“Complete valve with coil size 32 mm and 40 mm \(AC10\)”](#) on page 7.

Electrical connection	Coil size	H	K	N	O
		[mm]	[mm]	[mm]	[mm]
Plug contacts form A according to DIN EN 175301 - 803	5	32	20.5	45	41
	6	40	23.5	51	
Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)	5	32	20.5	48.3	
	6	40	23.6	54.2	

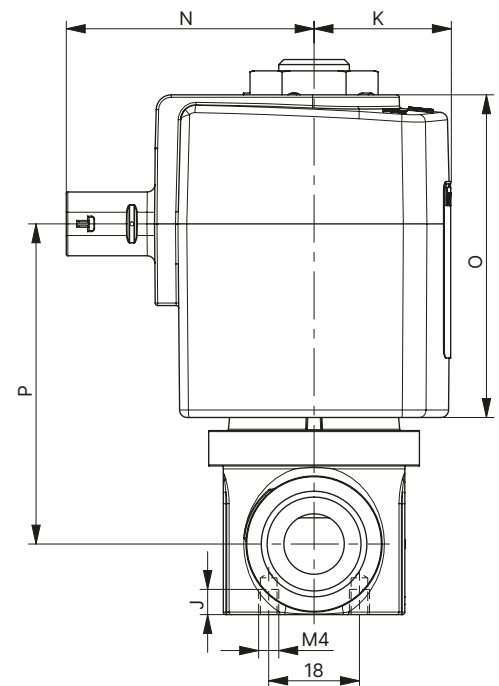
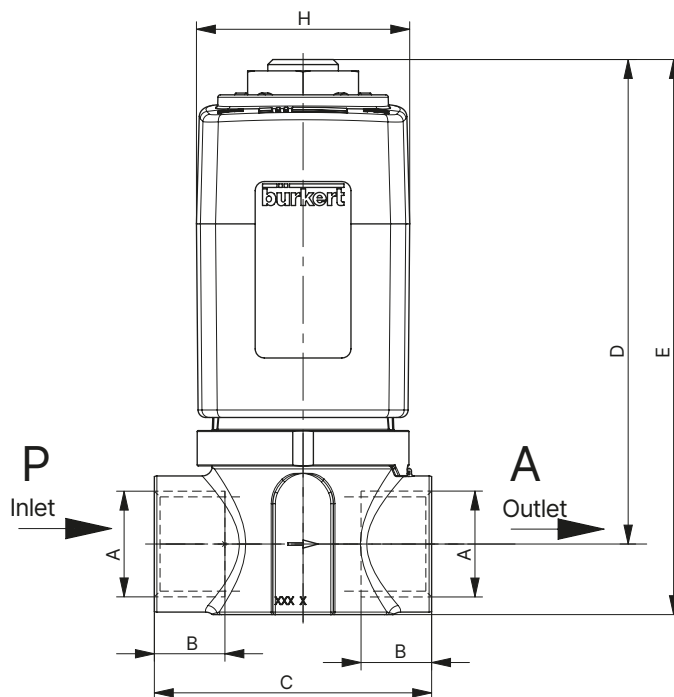
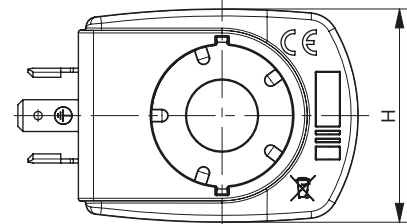
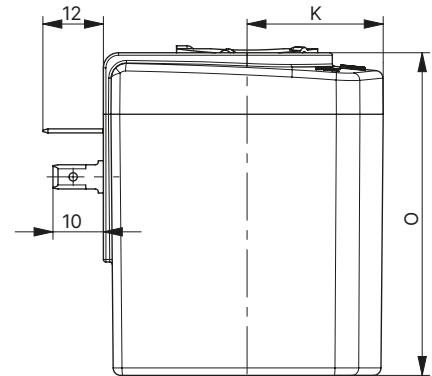
DTS 1000588807 EN Version: F Status: RL (released | freigegeben | valide) printed: 22.05.2026

Complete valve with coil size 42 mm (AC19)
Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter **"Solenoid coil in coil size 42 mm (AC19)"** on page 10.



Electrical connection
 Plug contacts form A according to DIN EN 175301-803



A (port connection)	B	C	D	E	I	J	P	SW
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
G ¼	12	55	96	105	39	5	63	36
NPT ¼	10							
G ⅜	12	55	96	108	39	5	63	36
NPT ⅜	10.3							
G ½	14	55	96	110	39	5	63	36
NPT ½	13.7							

Solenoid coil in coil size 42 mm (AC19)

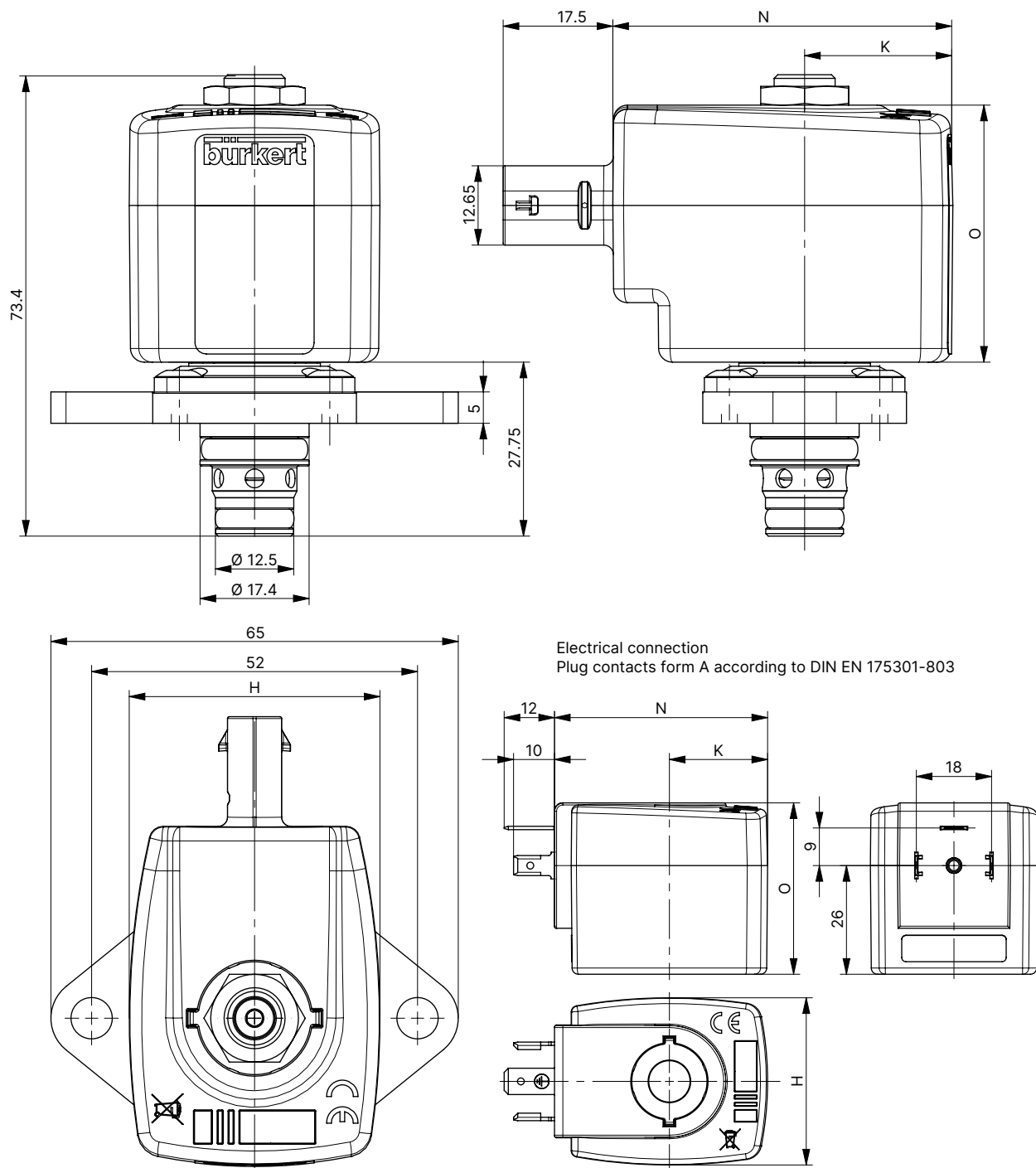
Note:

The corresponding dimensions to the letters mentioned can be found in chapter **“Complete valve with coil size 42 mm (AC19)”** on page 9.

Electrical connection	Coil size	H	K	N	O
		[mm]	[mm]	[mm]	[mm]
Plug contacts form A according to DIN EN 175301 - 803	K	42	27	–	64
Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)				49	

Complete valve with coil size 32 mm and 40 mm (AC10)

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter **“Solenoid coil in coil size 32 mm and 40 mm (AC10)”** on [page 12](#).



Solenoid coil in coil size 32 mm and 40 mm (AC10)

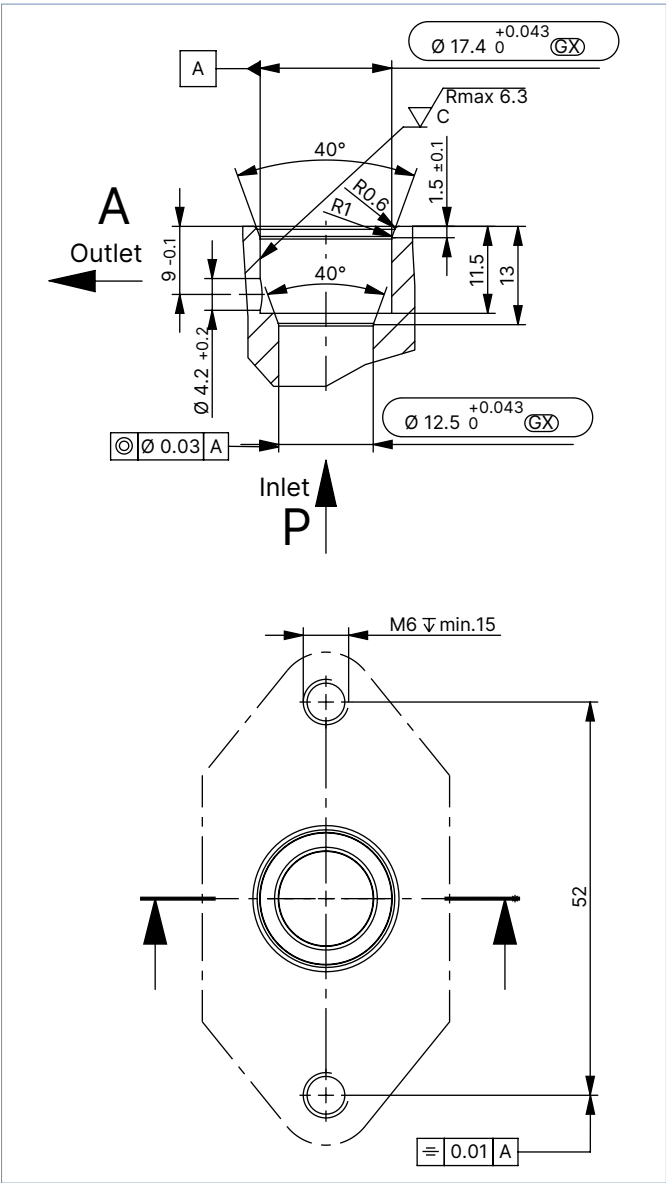
Note:
The corresponding dimensions to the letters mentioned can be found in chapter [“Complete valve with coil size 32 mm and 40 mm \(AC10\)”](#) on page 11.

Electrical connection	Coil size	H	K	N	O
		[mm]	[mm]	[mm]	[mm]
Plug contacts form A according to DIN EN 175301 - 803	5	32	20.5	45	41
	6	40	23.5	51	
Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)	5	32	20.5	48.3	
	6	40	23.6	54.2	

Cartridge connection diagram for coil sizes 32 mm and 40 mm (AC10)

Note:
Dimensions in mm

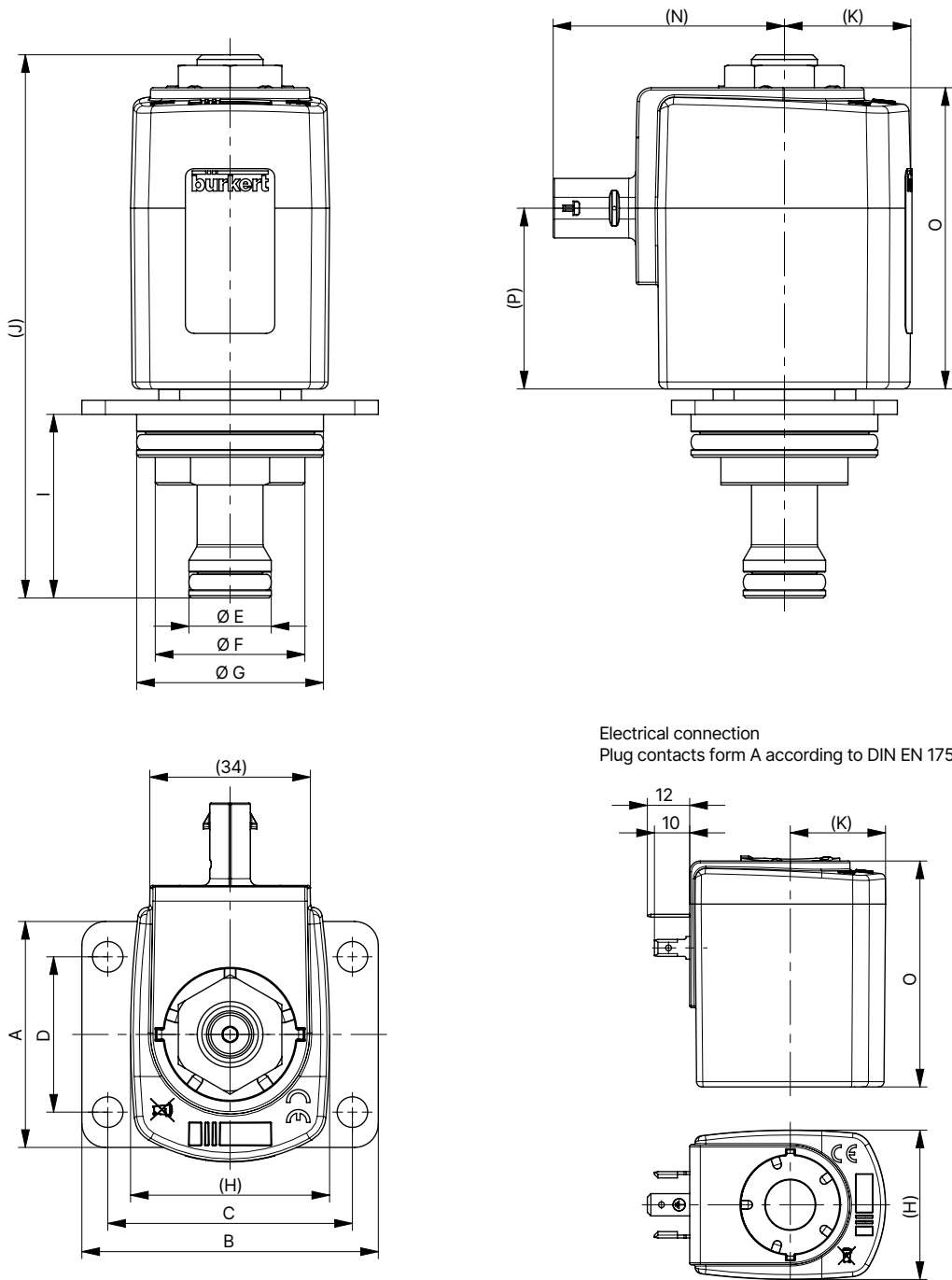
Connection contour FC24, coil size 32 mm and 40 mm (AC10)



Complete valve with coil size 42 mm (AC19)

Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter “Solenoid coil in coil size 42 mm (AC19)” on page 14.



DN	Port connection	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	I [mm]	(J) [mm]
2.5...8.0	FC17	48	63	52	33	17.5	31.8	39.7	39	115

Solenoid coil in coil size 42 mm (AC19)

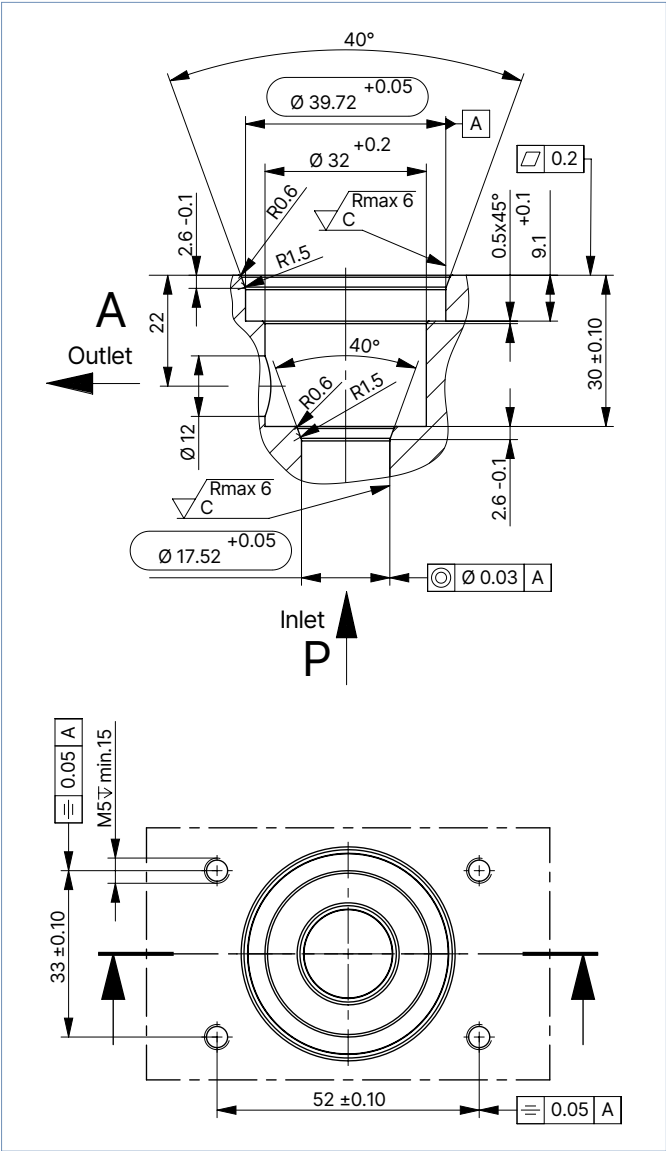
Note:
The corresponding dimensions to the letters mentioned can be found in chapter “Complete valve with coil size 42 mm (AC19)” on page 13.

DN	Electrical connection	Coil size	(H) [mm]	(K) [mm]	(N) [mm]	O [mm]	(P) [mm]
2.5...8.0	Plug contacts form A according to DIN EN 175301 - 803	K	42	27	–	64	38
	Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)				49		

Cartridge connection diagram for coil size 42 mm (AC19)

Note:
Dimensions in mm

Connection contour FC17, coil size 42 mm (AC19)

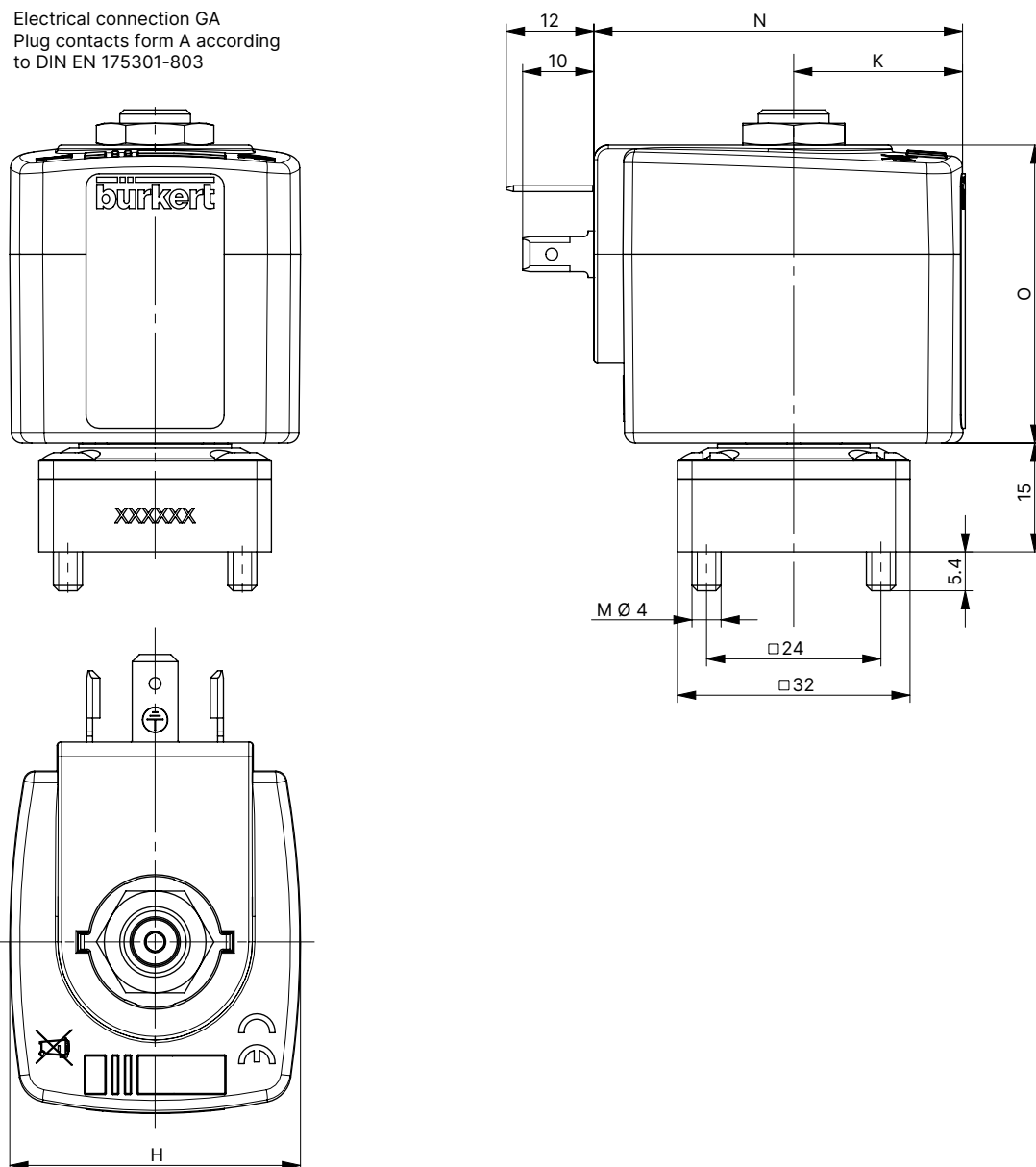


5.3. Sub-base variant

Complete valve with coil size 32 mm and 40 mm (AC10)

Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter [“Solenoid coil in coil size 32 mm and 40 mm \(AC10\)”](#) on [page 16](#).



Solenoid coil in coil size 32 mm and 40 mm (AC10)

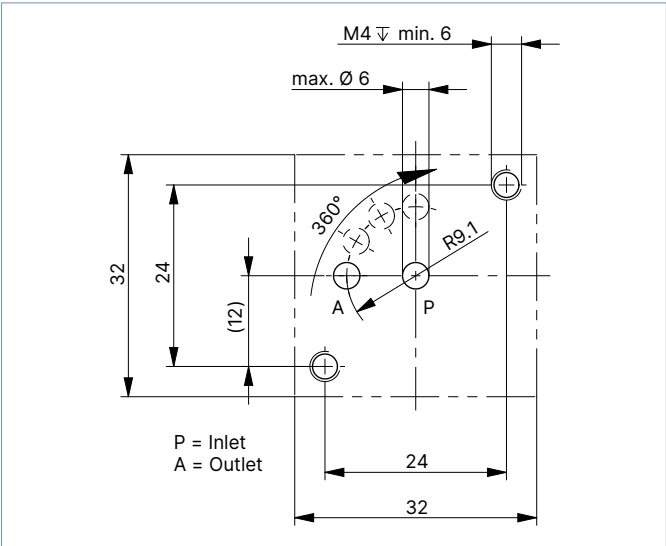
Note:
The corresponding dimensions to the letters mentioned can be found in chapter [“Complete valve with coil size 32 mm and 40 mm \(AC10\)”](#) on page 15.

Electrical connection	Coil size	H	K	N	O
		[mm]	[mm]	[mm]	[mm]
Plug contacts form A according to DIN EN 175301 - 803	5	32	20.5	45	41
	6	40	23.5	51	
Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)	5	32	20.5	48.3	
	6	40	23.6	54.2	

Sub-base connection diagram for coil sizes 32 mm and 40 mm (AC10)

- Note:**
- Dimensions in mm
 - P = Inlet, A = Outlet

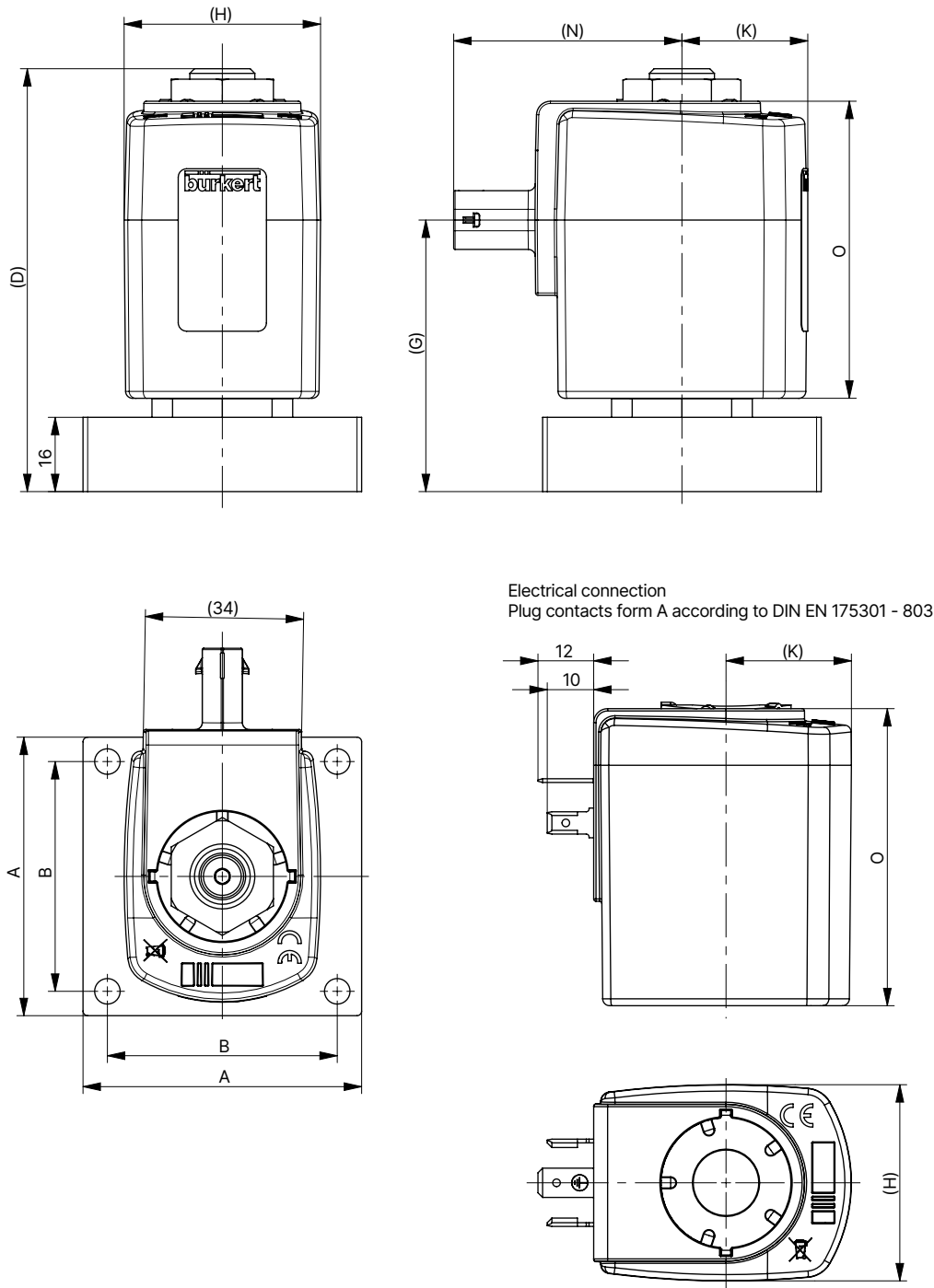
Connection contour FK01, DN 0.8...DN 3.0, coil size 32 mm and 40 mm (AC10)



Complete valve with coil size 42 mm (AC19)

Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter “Solenoid coil in coil size 42 mm (AC19)” on page 18.



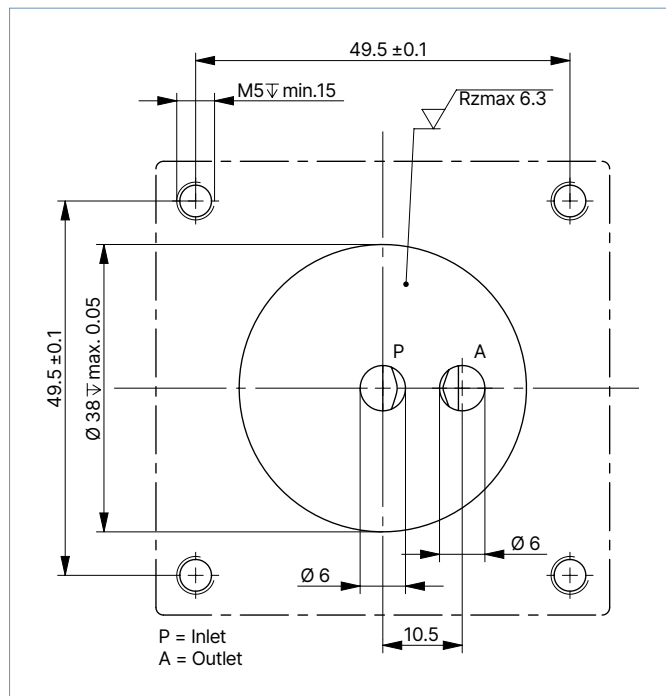
DN	Port connection	A [mm]	B [mm]	C [mm]	(D) [mm]	(G) [mm]
2.5 / 3.0 / 4.0	FK15	60	49.5	16	91	58

Note:

DN	Electrical connection	Coil size	(H)	(K)	(N)	O
			[mm]	[mm]	[mm]	[mm]
2.5 / 3.0 / 4.0	Plug contacts form A according to DIN EN 175301 - 803	K	42	27	–	64
	Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)				49	

Note:

- Connection contour FK15, DN 2.5...DN 4.0, coil size 42 mm (AC19)**



6. Performance specifications

6.1. Flow characteristics

Determination of the K_V value

Pressure drop	K_V value for liquids	K_V value for gases	Value	Description	Unit
	[m ³ /h]	[m ³ /h]			
Sub-critical $p_2 > \frac{p_1}{2}$	$= Q \sqrt{\frac{\rho}{1000 \Delta p}}$	$= \frac{Q_N}{514} \sqrt{\frac{T_1 \rho_N}{p_2 \Delta p}}$	K_V	Flow coefficient	[m ³ /h] ^{1.)}
			Q_N	Standard flow rate	[m ³ /h] ^{2.)}
			p_1	Inlet pressure	[bar] ^{3.)}
			p_2	Outlet pressure	[bar] ^{3.)}
			Δp	Differential pressure $p_1 \dots p_2$	[bar]
			ρ	Density	[kg/m ³]
			ρ_N	Standard density	[kg/m ³]
			T_1	Medium temperature	[(273+t)K]
Supercritical $p_2 < \frac{p_1}{2}$	$= Q \sqrt{\frac{\rho}{1000 \Delta p}}$	$= \frac{Q_N}{257 p_1} \sqrt{T_1 \rho_N}$			

1.) Measured for water, $\Delta p = 1$ bar, over the value

2.) At reference conditions 1.013 bar and 0 °C (273 K)

3.) Absolute pressure

6.2. Exemplary characteristic curve of a proportional valve

Note:

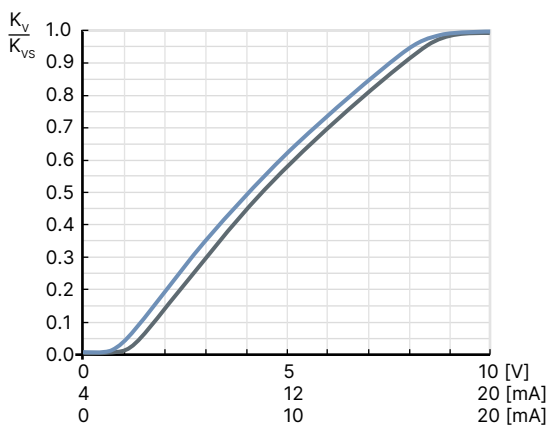
The dimensioning of the nominal diameter is very important for proportional valves to function properly within the application. The nominal diameter must be selected so that, on the one hand, the desired flow range is achieved and, on the other hand, when the valve is fully open, a sufficient portion of the total pressure drop occurs across the valve.

Reference value: $\Delta p_{\text{valve}} > 25\%$ of the total pressure drop

Otherwise, an ideal, linear valve characteristic is deformed into a curved system characteristic.

If the differential pressure (difference between inlet and outlet pressure) exceeds half the value of the nominal pressure discontinuities may occur.

For that reason take advantage of Bürkert competent engineering services during the planning phase.



The diagram shows the K_V value of the proportional valve as a function of an analog signal as an input variable for a PWM control unit. The analog signal represents as the PWM duty cycle or a resulting coil current.

7. Product operation

7.1. Control unit

The control takes place via a PWM signal (pulse-width modulation). The pulse duty factor of the PWM signal determines the coil current and thus the position of the actuating armature.

8. Ordering information

8.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick 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.

[Order online now](#)

8.2. Recommendation regarding product selection

Note:

- Use the product enquiry form (see “[8.4. Bürkert Product Enquiry Form](#)” on [page 20](#)) for information about the device layout and send it to us after completion.
- Please note the chapter “[6.2. Exemplary characteristic curve of a proportional valve](#)” on [page 19](#) on product selection.

8.3. Bürkert product filter

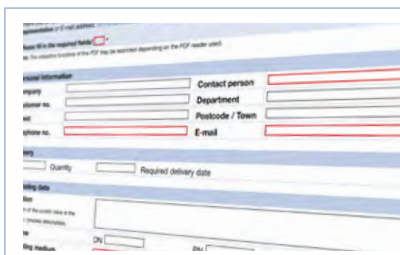


Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

8.4. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

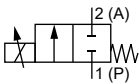
8.5. Ordering chart

Stationary applications with plug form A according to DIN EN 175301-803 (IP65 coil)

Note:

- Please note that the cable plug has to be ordered separately, see [“Cable plug Type 2518, form A according to DIN EN 175301-803” on page 24](#) or separate data sheet **Type 2518** ▶.
- Further variants with alternative voltages, threaded connections with G, NPT or RC internal threads are possible on request.
- Please note: If a specific orifice size is required for a significantly lower pressure range (MAWP) than in the tables below, a specific valve setting is recommended for more efficient operation after consultation with your Bürkert contact.

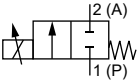
Coil size 32 mm and 40 mm (AC10)

Circuit function	Port connection	Orifice	K _{vs} value water	Pressure range (MAWP ¹⁾) at ambient temperature + 85 °C		Article no.
				Coil size 32 mm (7 W)	Coil size 40 mm (7.5 W)	
		[mm]	[m ³ /h]	[bar]	[bar]	[V/Hz]
Stainless steel body, seal material EPDM/EPDM						
CF A 2/2-way solenoid proportional control valve Direct-acting Normally closed 	Cartridge body					
	FC24	0.8	0.019	30	–	o. r.
		1.0	0.030	25	–	20127477 
		1.5	0.065	–	20	o. r.
		2.0	0.100	–	14	20127478 
		2.5	0.150	–	8	o. r.
		3.0	0.200	–	6	o. r.
	Sub-base body					
	FK01	0.8	0.019	30	–	o. r.
		1.0	0.030	25	–	o. r.
		1.5	0.065	–	20	o. r.
		2.0	0.100	–	14	o. r.
		2.5	0.150	–	8	o. r.
		3.0	0.200	–	6	o. r.

o. r. = on request

1.) Maximum allowable working pressure

Coil size 42 mm (AC19)

Circuit function	Port connection	Orifice	K _{vs} value water	Pressure range (MAWP ^{1.)}		Article no.
				Ambient temperature + 70 °C (18 W)	Ambient temperature + 85 °C (16 W)	024/DC
		[mm]	[m³/h]	[bar]	[bar]	[V/Hz]
Stainless steel body, seal material EPDM/EPDM ^{2.)}						
CF A 2/2-way solenoid proportional control valve Direct-acting Normally closed 	Threaded body with G internal thread					
	G ¼	3.0	0.26	18	–	o. r.
				–	16	o. r.
		4.0	0.40	8	–	o. r.
				–	7	o. r.
		5.0	0.65	5	–	o. r.
				–	4	o. r.
	G ½	6.0	0.85	3.5	–	20053331 
				–	3	o. r.
		8.0	1.25	2	–	o. r.
				–	1.75	20054816 
	Cartridge body					
	FC17	2.5	0.19	–	25 ^{3.)}	o. r.
				–	20 ^{3.)}	20073362 
				–	16 ^{3.)}	o. r.
				–	22 ^{3.)}	o. r.
				–	18 ^{3.)}	20058840 
				–	14 ^{3.)}	o. r.
				–	–	20096222 
				–	10 ^{3.)}	20092343 
				–	7 ^{3.)}	20078802 
				–	–	20109540 
				–	7	20052178 
				–	–	o. r.
				–	4.5	o. r.
				–	–	20098339 
				–	3.5	o. r.
		3.0	0.26	12	–	20107680 
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
		4.0	0.50	8	–	20098339 
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
				–	–	o. r.
–				–	o. r.	
–				–	o. r.	
5.0	0.65	5	–	20107680 		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
6.0	0.85	4	–	20098339 		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
6.5	1.05	2.25	–	20107680 		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
8.0	1.25	16	–	o. r.		
		–	14 ^{3.)}	20059610 		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		
		–	–	o. r.		

o. r. = on request

1.) Maximum allowable working pressure

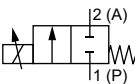
2.) An O-ring made of low-temperature FKM (down to - 40 °C) is used to seal the adjusting screw.

3.) Different pressure ranges require individual settings to optimise control characteristic. It is recommended to select the article with the next higher maximum pressure. For a significantly lower pressure range (MAWP), we recommend consulting your Bürkert contact.

Mobile applications with automotive plug (IP6K9K coil)
Note:

- Further variants with alternative voltages, threaded connections with G, NPT or RC internal threads are possible on request.
- Please note: If a specific orifice size is required for a significantly lower pressure range (MAWP) than in the tables below, a specific valve setting is recommended for more efficient operation after consultation with your Bürkert contact.

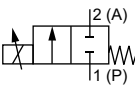
Coil size 32 mm and 40 mm (AC10)

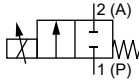
Circuit function	Port connection	Orifice	K _{vs} value water	Pressure range (MAWP ¹⁾) at ambient temperature + 85 °C		Article no.	
				Coil size 32 mm (7 W)	Coil size 40 mm (7.5 W)	012/DC	024/DC
		[mm]	[m³/h]	[bar]	[bar]	[V/Hz]	[V/Hz]
Stainless steel body, seal material EPDM/EPDM							
CF A 2/2-way solenoid proportional control valve Direct-acting Normally closed 	Cartridge body						
	FC24	0.8	0.019	30	–	o. r.	o. r.
		1.0	0.030	25	–	o. r.	o. r.
		1.5	0.065	–	20	o. r.	o. r.
		2.0	0.100	–	14	o. r.	o. r.
		2.5	0.150	–	8	o. r.	o. r.
		3.0	0.200	–	6	o. r.	o. r.

o. r. = on request

1.) Maximum allowable working pressure

Coil size 42 mm (AC19)

Circuit function	Port connection	Orifice	K _{vs} value water	Pressure range (MAWP ¹⁾)	Article no.	
				Ambient temperature + 85 °C (16 W)	012/DC	024/DC
		[mm]	[m³/h]	[bar]	[V/Hz]	[V/Hz]
Stainless steel body, seal material EPDM/EPDM ²⁾						
CF A 2/2-way solenoid proportional control valve Direct-acting Normally closed 	Threaded body with G internal thread					
	G ¼	3.0	0.26	16	20091227 	o. r.
		4.0	0.40	7	o. r.	o. r.
		5.0	0.65	4	o. r.	o. r.
	G ½	6.0	0.85	3	o. r.	20082554 
		8.0	1.25	1.75	o. r.	o. r.
	Cartridge body					
	FC17	2.5	0.19	25 ³⁾	o. r.	o. r.
				20 ³⁾	o. r.	o. r.
				16 ³⁾	20058843 	20057565 
		3.0	0.26	22 ³⁾	o. r.	20078140 
				18 ³⁾	20060413 	20058844 
				14 ³⁾	o. r.	o. r.
		4.0	0.50	10	o. r.	20071765 
				7	o. r.	o. r.
		5.0	0.65	7	o. r.	20080956 
		6.0	0.85	4.5	20104074 	o. r.
		6.5	1.05	3.5	o. r.	o. r.
		8.0	1.25	2	o. r.	o. r.

Circuit function	Port connection	Orifice	K _{vs} value water	Pressure range (MAWP ^{1.)})	Article no.	
				Ambient temperature + 85 °C (16 W)	012/DC	024/DC
		[mm]	[m³/h]	[bar]	[V/Hz]	[V/Hz]
CF A 2/2-way solenoid proportional control valve Direct-acting Normally closed 	Sub-base body FK15	2.5	0.19	25 ^{3.)}	o. r.	o. r.
				20 ^{3.)}	o. r.	20104474 
				16 ^{3.)}	o. r.	20101959 
		3.0	0.26	22 ^{3.)}	o. r.	o. r.
				18 ^{3.)}	20091377 	20057587 
				14 ^{3.)}	o. r.	20077260 
		3.5	0.32	14 ^{3.)}	20076401 	20099240 
				10 ^{3.)}	o. r.	o. r.

o. r. = on request

1.) Maximum allowable working pressure

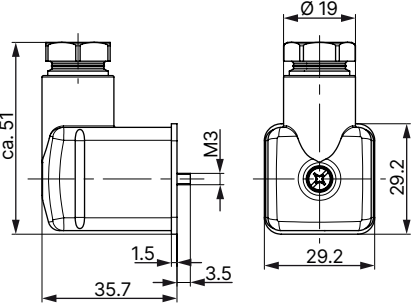
2.) An O-ring made of low-temperature FKM (down to - 40 °C) is used to seal the adjusting screw.

3.) Different pressure ranges require individual settings to optimise control characteristic. It is recommended to select the article with the next higher maximum pressure. For a significantly lower pressure range (MAWP), we recommend consulting your Bürkert contact.

8.6. Ordering chart accessories

Cable plug Type 2518, form A according to DIN EN 175301 - 803

- Note:**
- Dimensions in mm
 - For further variants see data sheet **Type 2518** 

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (AC/DC)	0...250 V AC/DC	314802 