







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 2.5...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	250 bar for sub-base and threaded body 110 bar for cartridge body
Differential pressure ¹⁾	0...25 bar Further information can be found in chapter "8. Ordering information" on page 14.
Duty cycle	100 % continuous operation
Electrical data	
Operating voltage	12 V DC, 24 V DC
Power consumption	16 W (up to + 85 °C T _{umg}) 18 W (up to + 70 °C T _{umg})
Maximum coil current	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 17. 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 ¼, G ⅜, G ½, 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 (16 W, with EPDM) - 40 °C...+ 70 °C (18 W, with EPDM) - 10 °C...+ 85 °C (16 W, with FKM) - 10 °C...+ 70 °C (18 W, with 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.

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3.4. Explosion protection

Approval	Description																						
 	<p>Optional: Explosion protection according to category 2 (zone 1/21)</p> <p>Ex marking of the components according to the following table:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9e1f2;">Coil Type AC10</th> <th style="background-color: #d9e1f2;">Coil Type AC19</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="background-color: #d9e1f2;">Coil with cable outlet</td> </tr> <tr> <td> ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D 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 </td> </tr> <tr> <td> IECEX: IECEX EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db </td> <td> IECEX: IECEX EPS 16.0030 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db </td> </tr> <tr> <td colspan="2" style="background-color: #d9e1f2;">Coil with terminal box</td> </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 </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 </td> </tr> <tr> <td> IECEX: IECEX EPS 18.0110 X Ex eb mb IIC T4 Gb Ex mb tb IIIC T130 °C Db </td> <td> 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> </tbody> </table> <p>Optional: Explosion protection according to category 3 (zone 2/22)</p> <p>Ex marking of the components according to the following table:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9e1f2;">Coil Type AC10</th> <th style="background-color: #d9e1f2;">Coil Type AC19</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="background-color: #d9e1f2;">Coil with plug contacts form A and cable plug Type 2509</td> </tr> <tr> <td> ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D 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 </td> </tr> <tr> <td> IECEX: IECEX EPS 18.0110 X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db </td> <td> IECEX: IECEX EPS 16.0030 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db </td> </tr> </tbody> </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	ATEX: EPS 16 ATEX 1072 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	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	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 18.0110 X Ex eb mb IIC T4 Gb 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	Coil Type AC10	Coil Type AC19	Coil with plug contacts form A and cable plug Type 2509		ATEX: EPS 18 ATEX 1232 X II 2G Ex mb IIC T4 Gb II 2D 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 18.0110 X Ex mb IIC T4 Gb 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
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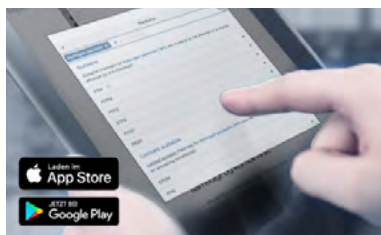
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3.5. North America (USA/Canada)

Approval	Description
	<p>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</p>

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](#)

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	13.2							

Solenoid coil

Note:

The corresponding dimensions to the letters mentioned can be found in chapter **“Complete valve”** on page 7.

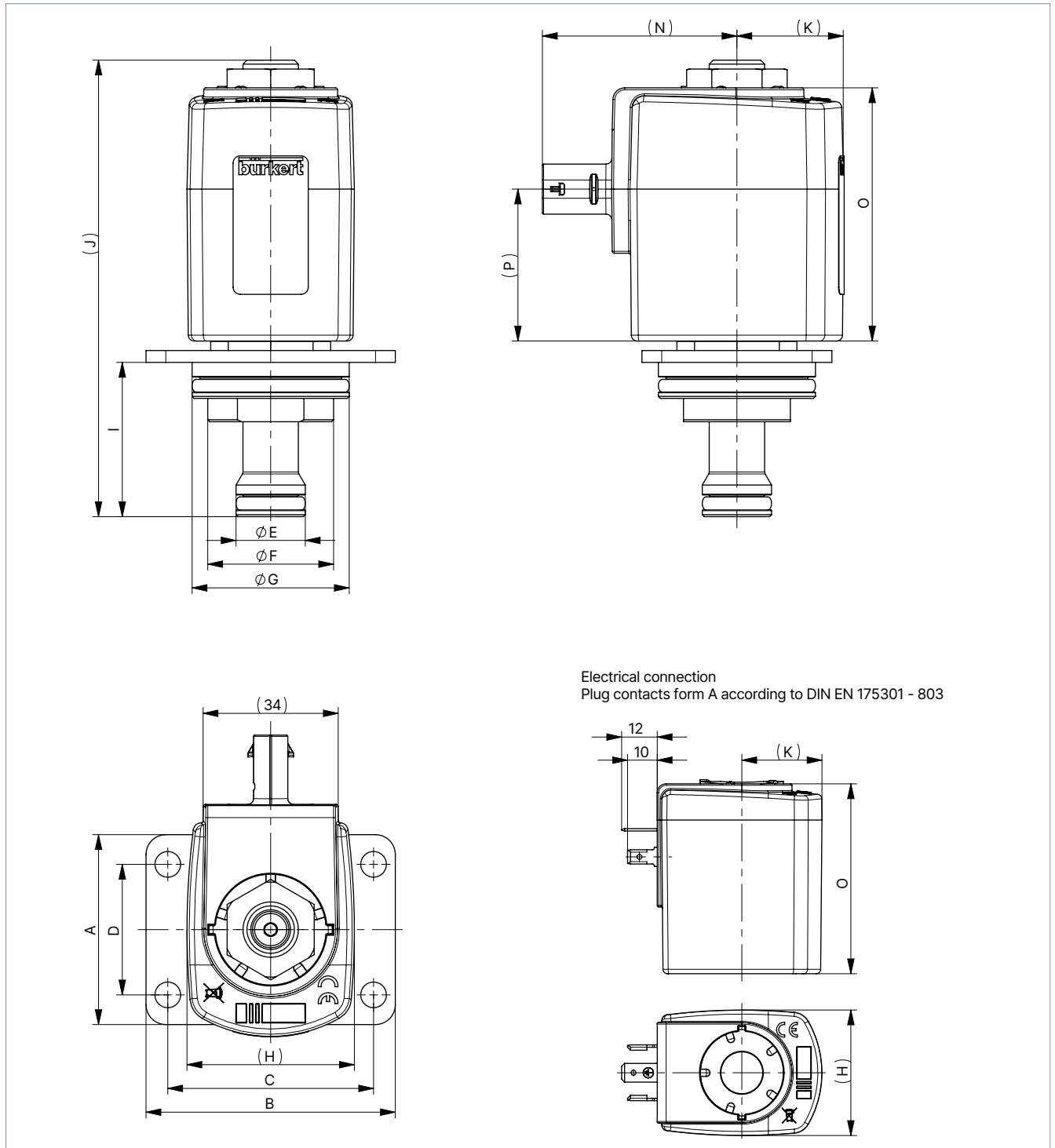
Electrical connection	Coil size	H	K	N	O
		[mm]	[mm]	[mm]	[mm]
Plug contacts form A according to DIN EN 175301 - 803	K	42	27	–	64
Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)				49	

5.2. Cartridge variant

Complete valve

Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter **“Solenoid coil”** on page 10.



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

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Solenoid coil

Note:

The corresponding dimensions to the letters mentioned can be found in chapter **“Complete valve”** on page 9.

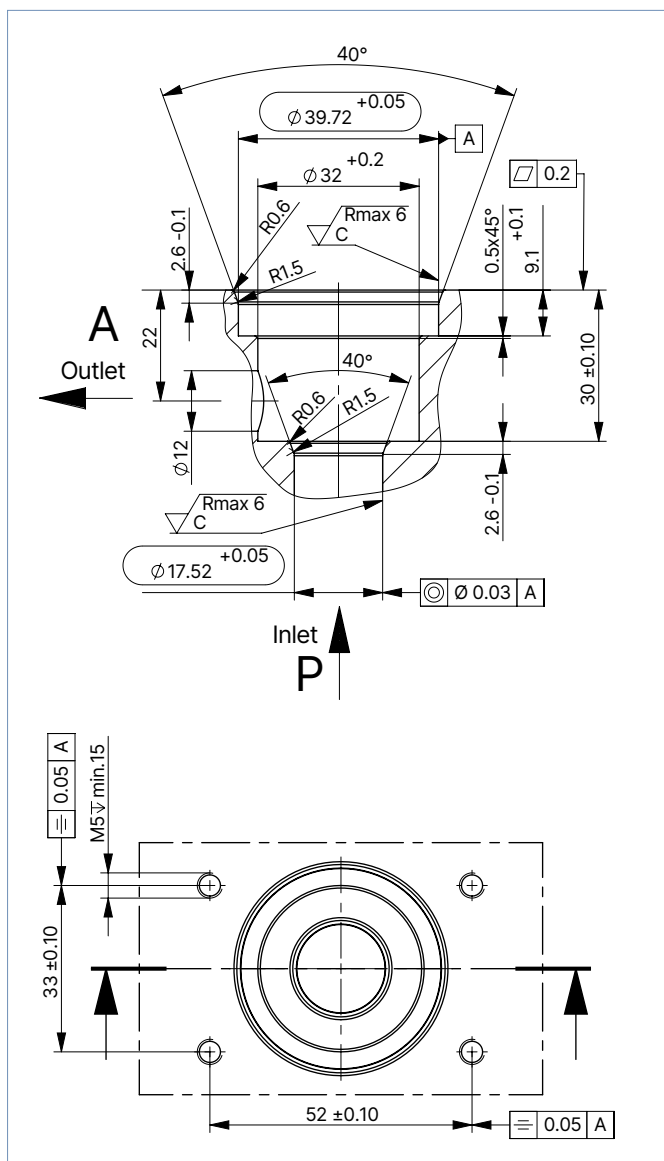
DN	Electrical connection	Coil size	(H) [mm]	(K) [mm]	(N) [mm]	O [mm]	(P) [mm]
2.5...8.0	Plug contacts form A according to DIN EN 175301 - 803	K	42	27	–	64	38
	Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)				49		

Cartridge connection diagram

Note:

Dimensions in mm

Connection contour FC17, coil size K (AC19)



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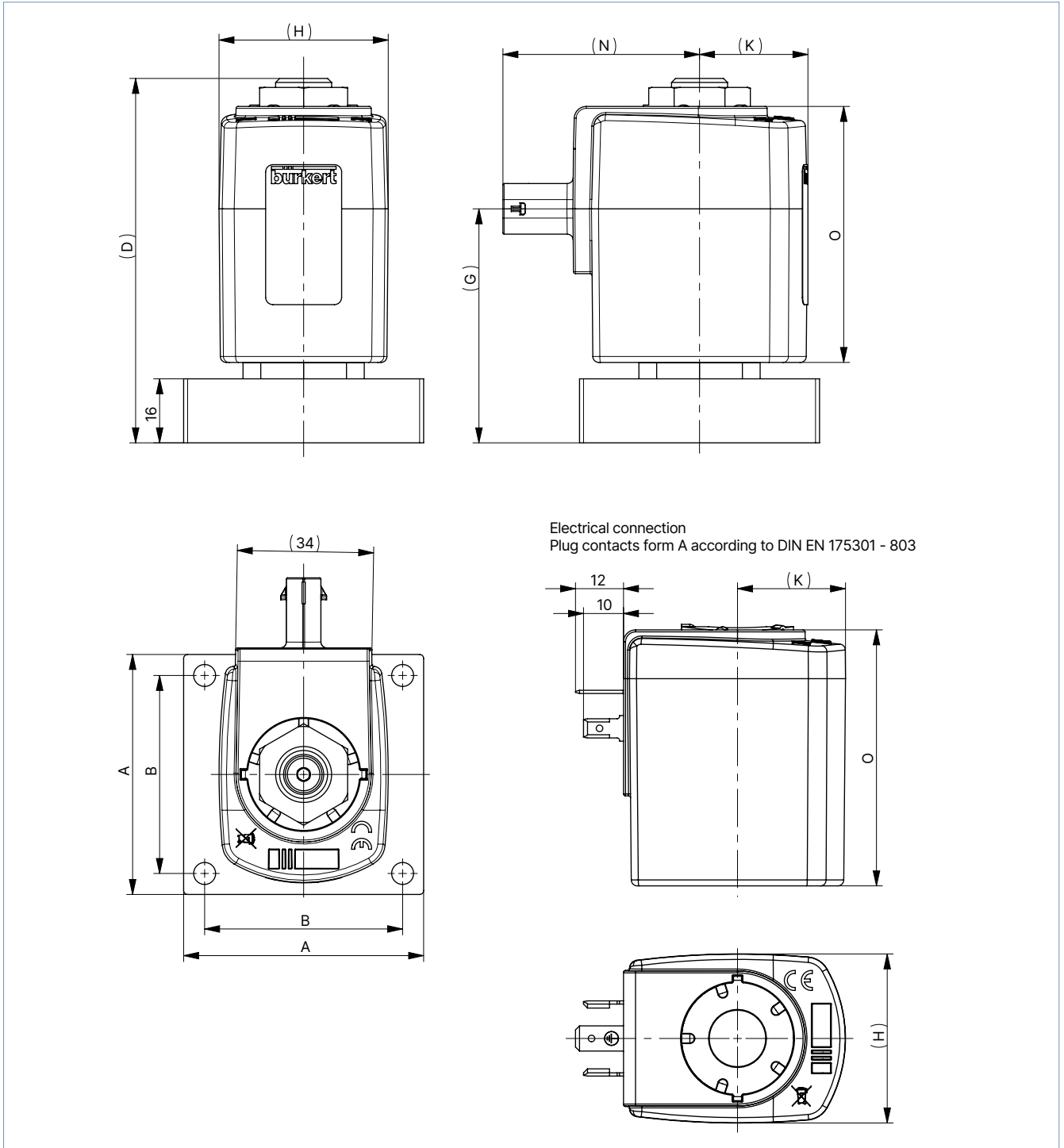
5.3. Sub-base variant

Complete valve

Note:

- Dimensions in mm
- The corresponding dimensions to the letters mentioned can be found in chapter "Solenoid coil" on page 12.

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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

Solenoid coil

Note:

The corresponding dimensions to the letters mentioned can be found in chapter **“Complete valve”** on page 11.

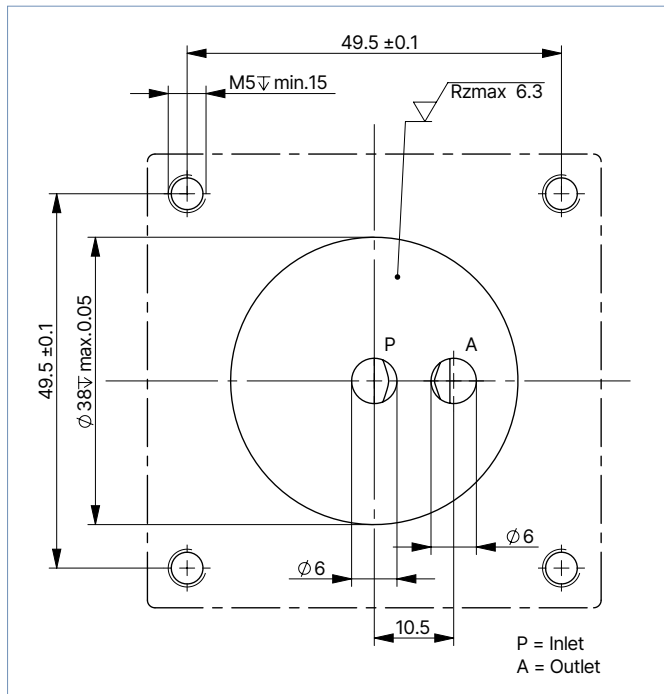
DN	Electrical connection	Coil size	(H)	(K)	(N)	O
			[mm]	[mm]	[mm]	[mm]
2.5 / 3.0 / 4.0	Plug contacts form A according to DIN EN 175301-803	K	42	27	–	64
	Plug KOSTAL MLK1.2 / TE MCON 1.2, 2-pin, coding A (male)				49	

Sub-base connection diagram

Note:

- Dimensions in mm
- P = Inlet, A = Outlet

Connection contour FK15, DN 2.5...DN 4.0, coil size K (AC19)



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6. Performance specifications

6.1. Flow characteristics

Determination of the K_v value

Pressure drop	K_v value for liquids [m ³ /h]	K_v value for gases [m ³ /h]
Sub-critical $p_2 > \frac{p_1}{2}$	$= Q \sqrt{\frac{\rho}{1000 \Delta p}}$	$= \frac{Q_N}{514} \sqrt{\frac{T_1 \rho_N}{p_2 \Delta p}}$
Supercritical $p_2 < \frac{p_1}{2}$	$= Q \sqrt{\frac{\rho}{1000 \Delta p}}$	$= \frac{Q_N}{257 p_1} \sqrt{T_1 \rho_N}$

Value	Description	Unit
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]

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:

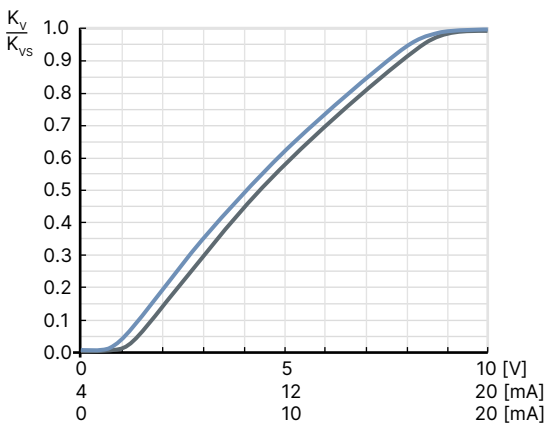
The dimensioning of the nominal diameter is very important for proportional valves to function properly within the application. The nominal diameter must be selected so that, on the one hand, the desired flow range is achieved and, on the other hand, when the valve is fully open, a sufficient portion 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 14) 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 13 on product selection.

8.3. Bürkert product filter

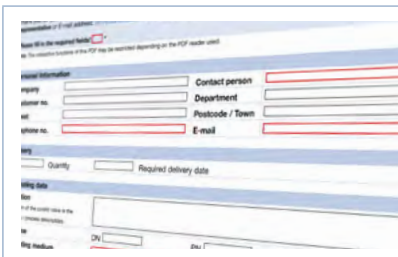


Bürkert product filter – Get quickly to the right product

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.

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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](#)

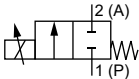














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8.5. Ordering chart

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 17](#) or separate data sheet [Type 2518](#) ▶.
- Further variants with alternative voltages, 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 table below, a specific valve setting is recommended for more efficient operation after consultation with your Bürkert contact.

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)		
				[mm]	[m ³ /h]		[bar]
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 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.	
	3.0		0.26	–	22 ^{3.)}	o. r.	
				–	18 ^{3.)}	20058840 	
				–	14 ^{3.)}	o. r.	
	4.0		0.50	12	–	20096222 	
				–	10 ^{3.)}	20092343 	
				–	7 ^{3.)}	20078802 	
	5.0		0.65	8	–	20109540 	
				–	7	20052178 	
				–	–	o. r.	
	6.0	0.85	5	–	o. r.		
			–	4.5	o. r.		
			–	–	20098339 		
	6.5	1.05	4	–	o. r.		
–			3.5	o. r.			
–			–	20107680 			
8.0	1.25	2.25	–	o. r.			
		–	2	o. r.			
		Sub-base body					
FK15	2.5	0.19	–	25 ^{3.)}	o. r.		
			–	20 ^{3.)}	o. r.		
			–	16 ^{3.)}	o. r.		
	3.0	0.26	–	22 ^{3.)}	20080119 		
			–	18 ^{3.)}	20078619 		
			–	14 ^{3.)}	o. r.		
	3.5	0.32	16	–	o. r.		
			–	14 ^{3.)}	20059610 		
			–	10 ^{3.)}	o. r.		

o. r. = on request

1.) Maximum allowable working pressure

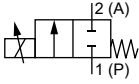
2.) An O-ring made of low-temperature FKM (down to -40 °C) is used to seal the adjusting screw.

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, 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 table below, a specific valve setting is recommended for more efficient operation after consultation with your Bürkert contact.

Circuit function	Port connection	Orifice [mm]	K _{vs} value water [m ³ /h]	Pressure range (MAWP ¹⁾)	Article no.	
				Ambient temperature + 85 °C (16 W) [bar]	012/DC [V/Hz]	024/DC [V/Hz]
Stainless steel body, seal material EPDM/EPDM²⁾						
CF A 2/2-way solenoid proportional control valve Direct-acting Normally closed 	Threaded body with G 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.
				7	o. r.	20080956
		5.0	0.65	7	o. r.	20080956
				6.0	0.85	4.5
		6.5	1.05	3.5	o. r.	o. r.
	8.0			1.25	2	o. r.
	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.


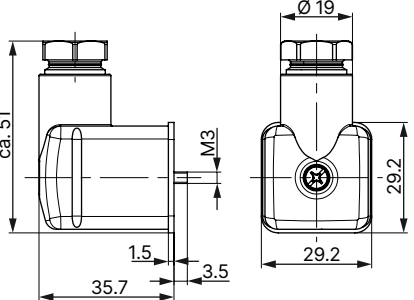
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8.6. Ordering chart accessories

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 𐀀

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