



Plunger valve, 2/2-way, direct-acting

- Media-separated plunger valves up to DN12
- Suitable for high and low temperature ranges (-200 °C...+180 °C)
- Energy-saving double coil technology with Kick and Drop variant

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

Can be combined with



Type 2518

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

Type description

The valve 6026 is a direct-acting, media-separated 2/2-way plunger valve. The thermal and hermetic isolation of the coil and body by means of stainless steel bellows allows both extreme medium temperatures as well as aggressive media. This design avoids the build-up of condensation between the fluid part and coil or an unacceptable heating up or freezing of the coil. The coils are moulded with chemically resistant epoxy. The valve is therefore particularly suitable for applications with critical media. The use of highly resistant body and seal materials such as stainless steel and PTFE make the valve suitable for critical chemical applications. To reduce power consumption in operation, coils with "Kick and Drop" (KD) electronics assembly (double coil technology) are available. In combination with a plug to DIN EN 175301 - 803 Form A, the valves satisfy degree of protection IP65.

Table of contents

1. General technical data	3
2. Circuit functions	3
3. Approvals and conformities	4
3.1. General notes	4
3.2. Conformity	4
3.3. Standards	4
3.4. Explosion protection	4
3.5. North America (USA/Canada)	4
3.6. Others	5
Oxygen	5
4. Dimensions	5
5. Performance specifications	6
5.1. Power consumption	6
6. Ordering information	6
6.1. Bürkert eShop	6
6.2. Bürkert product filter	6
6.3. Bürkert Product Enquiry Form	7
6.4. Ordering chart	7
6.5. Ordering chart accessories	8
Cable plug Type 2518, form A according to DIN EN 175301 - 803	8
Mounting set stainless steel body	8

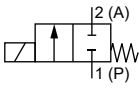
1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 5.
Material	
Seal	PTFE
Body	Brass with stainless steel seat 1.4581 Stainless steel with stainless steel seat 1.4581
Metal bellows	Stainless steel 1.4541
Weight	1.1 kg
Orifice	DN 3.0...DN 12.0
Circuit function	A Further information can be found in chapter "2. Circuit functions" on page 3.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	Continuous operation 100 % ED Intermittent operation 50 % ED max. 6 switchings/minute ^{2.)}
Electrical data	
Operating voltage	24 UC ^{1.)} 110/120 V 50/60 Hz 230/240 V 50/60 Hz
Power consumption	85/8.5 W (orifice 8.0...12.0) 44/6.5 W (orifice 3.0...6.0)
Voltage tolerance	± 10 %
Medium data	
Operating medium	Neutral gases and fluidics
Medium temperature	- 200 °C...+ 180 °C
Viscosity	Max. 21 mm ² /s
Process/Port connection & communication	
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 8.
Approvals and conformities	
Protection class	IP65 with cable plug
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 4.
North America (USA/Canada)	Further information can be found in chapter "3.5. North America (USA/Canada)" on page 4.
Others	Further information can be found in chapter "3.6. Others" on page 5.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. + 55 °C

1.) DC and AC (50...60 Hz)

2.) Further information can be found in the **operating instructions Type 6026** ►.

2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid 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 versions 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 colspan="2">Coil Type AC19</th></tr><tr><th>Coils with cable outlet</th><th>Coils with terminal box</th></tr><tr><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 16.0030X Ex mb IIC T4 Gb Ex mb III C 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 16.0030X Ex eb mb IIC T4 Gb Ex mb tb III C T130 °C Db </td></tr></table>	Coil Type AC19		Coils with cable outlet	Coils with terminal box	ATEX: EPS 16 ATEX 1072 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db IECEx: IECEx EPS 16.0030X Ex mb IIC T4 Gb Ex mb III C 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 16.0030X Ex eb mb IIC T4 Gb Ex mb tb III C T130 °C Db
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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
	Optional: UL Recognized for the USA and Canada (valid for coils) The coils are UL Recognized for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139

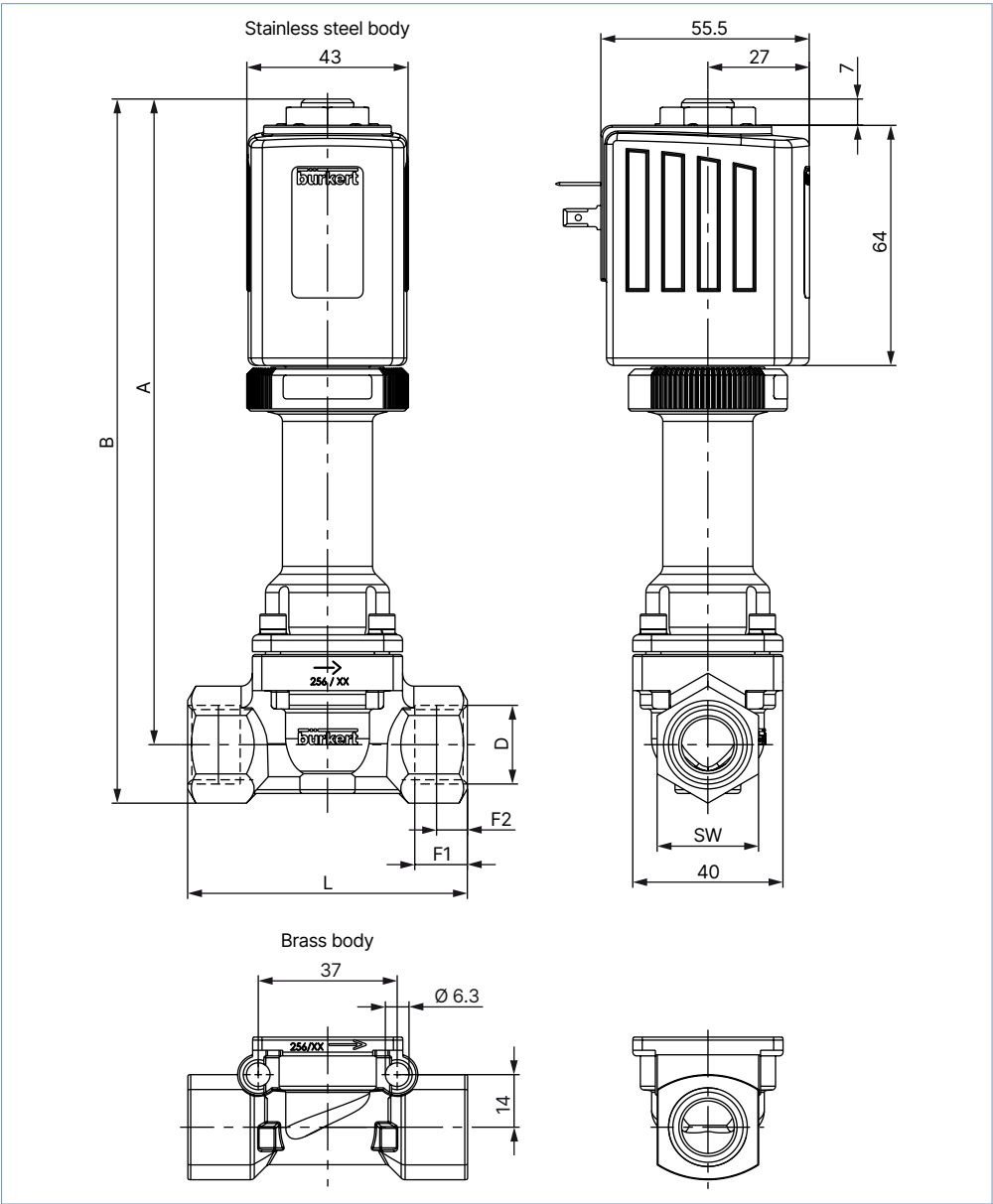
3.6. Others

Oxygen

Conformity	Description
	Optional: Suitability for oxygen (valid for the variable code NL02) The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration.

4. Dimensions

Note:
Dimensions in mm



Port connection	Material	A	B	D	F1	F2	L	SW
GM82	Brass	173	184	G ¼	12	–	56	22
NM82	Brass	173	184	NPT ¼	10	5.8	56	22
GM83	Brass	173	184	G ⅜	12	–	56	22
NM83	Brass	173	184	NPT ⅜	10.3	6	56	22

GM84	Brass	172	186	G ½	14	–	74.5	27
NM84	Brass	172	186	NPT ½	13.7	8.2	74.5	27
GM82	Stainless steel	172	184.7	G ¼	12	–	74.5	27
NM82	Stainless steel	172	184.7	NPT ¼	10	5.8	74.5	27
GM84	Stainless steel	172	187.6	G ½	14	–	74.5	27
NM84	Stainless steel	172	187.6	NPT ½	13.5	8.1	74.5	27

5. Performance specifications

5.1. Power consumption

Orifice [mm]	K _v value water [m³/h] ^{1.)}	Pressure range [bar] ^{2.)}	Power consumption		Switching times ^{3.)}	
			Inrush [W]	Hold [W]	Opening [ms]	Closing [ms]
3.0	0.25	0...10	85	8	100...200	300...500
4.0	0.50	0...10				
5.0	0.65	0...10				
6.0	0.80	0...10				
8.0	0.90	0...10				
10.0	1.50	0...5				
12.0	1.80	0...3				

1.) Measurement at +20 °C, 1 bar at the valve outlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

3.) Measurement at +20 °C, 6 bar at the valve inlet and free outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %

6. Ordering information

6.1. 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.

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6.2. Bürkert product filter

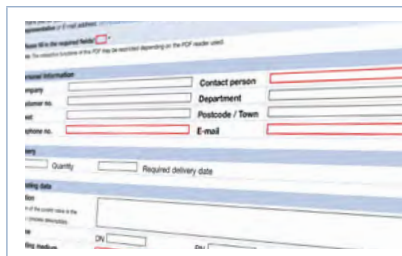


Bürkert product filter – Get quickly to the right product

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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6.3. Bürkert Product Enquiry Form



The form includes fields for: Name, Company, Contact person, Department, Postcode / Town, E-mail, Phone no., Quantity, Required delivery date, and a checkbox for 'Fill out the form now'.

Bürkert Product Enquiry Form – Your enquiry quickly and compactly

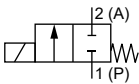
Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

6.4. Ordering chart

Note:

Further versions are available on request.

Circuit function	Port connection	Orifice [mm]	K _v value [m³/h]	Pressure range [bar]	Body material	Article no. per voltage/frequency		
						024/UC [V/Hz]	110...120/ 50...60 [V/Hz]	230...240/ 50...60 [V/Hz]
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G 1/4	3.0	0.25	0...10	Brass	20080803 	20080804 	20080807 
	G 3/8	3.0	0.25	0...10	Brass	20080808 	20080810 	20080812 
	G 1/4	3.0	0.25	0...10	Stainless steel	20080813 	20080815 	20080816 
	G 1/4	4.0	0.5	0...10	Brass	20080817 	20080820 	20080821 
	NPT 1/4	4.0	0.5	0...10	Brass	20080825 	20080826 	20080828 
	G 3/8	4.0	0.5	0...10	Brass	20080822 	20080823 	20080824 
	NPT 3/8	4.0	0.5	0...10	Brass	20080829 	20080831 	20080832 
	G 1/4	4.0	0.5	0...10	Stainless steel	20047000 	20080833 	20047091 
	NPT 1/4	4.0	0.5	0...10	Stainless steel	20080837 	20080839 	20080840 
	G 1/2	4.0	0.5	0...10	Stainless steel	20080834 	20080835 	20080836 
	G 1/4	5.0	0.65	0...10	Brass	20080841 	20080842 	20080843 
	G 1/2	5.0	0.65	0...10	Brass	20080847 	20080848 	20080849 
	G 3/8	5.0	0.65	0...10	Brass	20080844 	20080845 	20080846 
	G 1/4	6.0	0.8	0...10	Brass	20080850 	20080852 	20080854 
	NPT 1/4	6.0	0.8	0...10	Brass	20080868 	o. r.	o. r.
	G 1/2	6.0	0.8	0...10	Brass	20080861 	20080863 	20080867 
	NPT 1/2	6.0	0.8	0...10	Brass	20080870 	20080871 	20080872 
	G 3/8	6.0	0.8	0...10	Brass	20080856 	20080858 	20080860 
	G 1/4	6.0	0.8	0...10	Stainless steel	20047001 	20080876 	20047098 
	NPT 1/4	6.0	0.8	0...10	Stainless steel	20080883 	20080884 	20080885 
	G 1/2	6.0	0.8	0...10	Stainless steel	20080879 	20080881 	20080882 
	NPT 1/2	6.0	0.8	0...10	Stainless steel	20080886 	20080887 	20080889 
	G 1/2	8.0	0.9	0...10	Brass	352624 	352625 	352626 
	G 3/8	8.0	0.9	0...10	Brass	357466 	357467 	357468 
	G 1/2	8.0	0.9	0...10	Stainless steel	352605 	352606 	352607 
	NPT 1/2	8.0	0.9	0...10	Stainless steel	352637 	352638 	352639 
	G 1/2	10.0	1.5	0...5	Brass	352627 	352628 	352629 
	NPT 1/2	10.0	1.5	0...5	Brass	352653 	352654 	352655 
	G 1/2	10.0	1.5	0...5	Stainless steel	352609 	352610 	352611 
	NPT 1/2	10.0	1.5	0...5	Stainless steel	352640 	352641 	352642 
	G 1/2	12.0	1.8	0...3	Brass	352630 	352631 	352632 
	NPT 1/2	12.0	1.8	0...3	Brass	352657 	352658 	352659 
	G 1/2	12.0	1.8	0...3	Stainless steel	352612 	352613 	352614 
	NPT 1/2	12.0	1.8	0...3	Stainless steel	352643 	352644 	352645 

o. r. = on request

Further versions on request



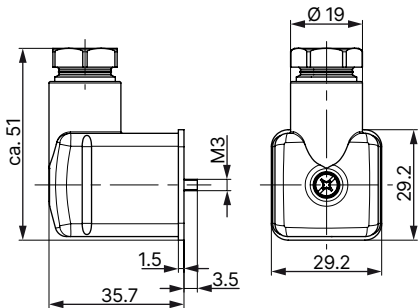
Approval
Further information can be found in chapter “3. Approvals and conformities” on page 4.

6.5. Ordering chart accessories

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

Note:

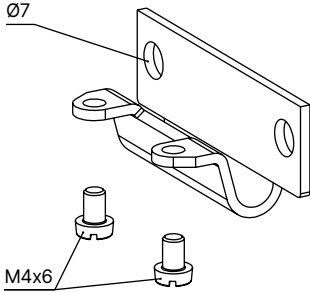
- Dimensions in mm
- For further versions see data sheet **Type 2518** ▶.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry (AC/DC)	0...250 V AC/DC	314802
		With LED (AC/DC)	12...24 V AC/DC	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820
		With rectifier, LED and varistor	12...24 V AC/DC	314816
		Without circuitry (AC/DC) with silicone seal for higher ambient temperature	0...250 V AC/DC	361687

Mounting set stainless steel body

Note:

- A mounting clamp and 2 cylinder screws M4 × 6 are included in the scope of delivery.
- Only for stainless steel version
- 29 mm separation between the M4 threaded holes
- 48 mm separation between the Ø 7 bores

Description	Article no.
	260250