Solenoids with Kick and Drop

- Two windings encapsulated in one coil with epoxy
- Inrush power increases performance and differential pressure range for small installation volumes
- Holding power reduces to less than 1 W with over 80 % energy saved
- Less heating reduces calcification and increases service life
- Internal electronics assembly covers direct and alternating voltage with frequencies 50 Hz and 60 Hz

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

Can be combined with

Type 6013
Plunger valve 2/2-way direct-acting

Type 6014
Plunger valve 3/2-way direct-acting

Type 6027
Direct-acting 2/2-way plunger valve

Type 6213
Servo-assisted 2/2-way diaphragm valve

Type 6281
Servo-assisted 2/2-way diaphragm valve

Type 5404
Servo-assisted 2/2-way piston valve

Type 6240
Servo-assisted 2/2-way piston valve

Type description

The Kick and Drop variants of the AC10 and AC19 coil types use two windings in one solenoid. Thanks to an increased inrush power for the first winding, the switchable pressure range is increased as installation volumes stay the same. The second winding is switched in series after 500 ms. Thanks to this reduced holding power, energy is saved and coil heating is reduced.

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Visit product website

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1. General technical data

Product properties		
Dimensions	Further information can be found in chapter "5. Dimensions" on page 7.	
Material[1.]		
Seal	FKM	
Coil	Epoxy	
Circuit function	A, B, C and D Further information can be found in chapter "2. Circuit functions" on page 4.	
Thermal insulation class of solenoid coil	Epoxy coil class H	
Performance data		
Switching frequency		
AC10	Max. 30 cycles/min	
AC19	Max. 30 cycles/min	
Electrical data		
Operating voltage	24 V 50/60 Hz and 24 V DC, 110/120 V 50/60 Hz, 230/240 V 50/60 Hz	
Duty cycle single valve	100 % continuous operation	
Voltage tolerance	± 10 %	
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 20. • Plug contacts according to DIN EN 175 301 - 803 form A for cable plug **Type 2509** ▶. Further information can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301 - 803" on page 20. • ATEX/IECEx variant with cable or terminal box at AC19	
Approvals and conformities		
Degree of protection	IP65 with cable plug IP67 with cable plug Type 2518 (for possible variants see data sheet **Type 2518** ▶)	
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 5.	
Environment and installation		
Ambient temperature[2.]		
AC10	**30 switching cycles/min**	**1 switching cycle/min**
12/0.6 W	Max. + 70 °C	Max. + 85 °C
20/2.0 W	Max. + 70 °C	Max. + 85 °C
65/7.0 W	Max. + 55 °C	Max. + 70 °C
AC19	**10 switching cycles/min**	**1 switching cycle/min**
44/6.5 W	Max. + 70 °C	Max. + 70 °C
85/8.5 W	Max. + 55 °C	Max. + 60 °C

1.) Because of the overmounted coil system, the following materials are not wetted by the medium.

2.) The temperature specifications correspond to the specified switchable differential pressures. Higher temperatures are possible on request, depending on the differential pressure, duty cycle and number of switching cycles. Further information can be found in chapter "6.1. Temperature diagram" on page 8.

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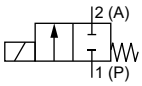
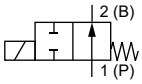
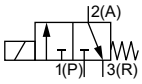
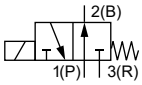
2. Circuit functions

Symbol	Description
	**Circuit function A (CF A)** 2/2-way solenoid valve Direct-acting Normally closed
	**Circuit function B (CF B)** 2/2-way solenoid valve Direct-acting Normally open
	**Circuit function C (CF C)** 3/2-way solenoid valve Direct-acting Normally closed
	**Circuit function D (CF D)** 3/2-way solenoid valve Direct-acting Normally open

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
	Optional (valid for AC19 KD coils): Explosion protection according to category 2 (zone 1/21) Ex marking of the components according to the following table:

Coil Type AC19	
Coils with cable outlet	**Coils with terminal box**
ATEX: EPS 16 ATEX 1 072 X II 2 G Ex mb IIC T4 Gb II 2 D Ex mb IIIC T130 °C Db	**ATEX:** EPS 16 ATEX 1 072 X II 2 G Ex eb mb IIC T4 Gb II 2 D Ex mb tb IIIC T130 °C Db

Optional: Explosion protection according to category 3 (zone 2/22)

Ex marking of the components according to the following table:

Coil with plug contacts form A and cable plug Type 2509	
Coil Type AC10	**Coil Type AC19**
ATEX: EPS 21 ATEX 1234 X II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135 °C Dc **IECEx:** IECEx EPS 21.0078 X 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

3.5. North America (USA/Canada)

Approval	Description
c UL us LISTED SOLENOID FOR USE IN HAZARDOUS LOCATIONS E504714	**Optional (valid for AC19 KD coils): UL Hazardous Locations – Explosion Protection** 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
c us	**Valid for coils: UL Recognized for the USA and Canada** The coils are UL Recognized for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139

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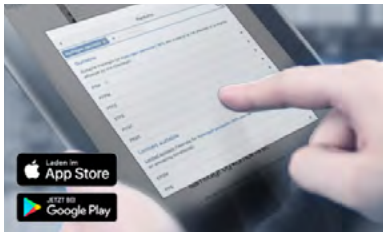
4. Materials

4.1. Bürkert resistApp

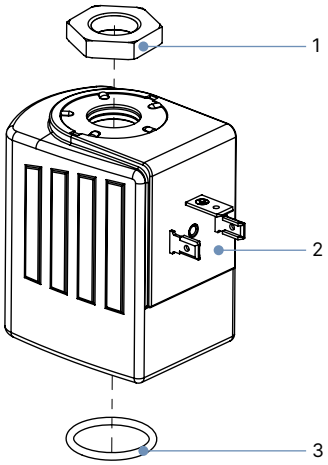


Bürkert resistApp – Chemical resistance chart

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

4.2. Material specifications



No.	Element	Material
1	Nut	DIN 176 thick film passivated or stainless steel
2	Coil	Epoxy
3	Seal	FKM

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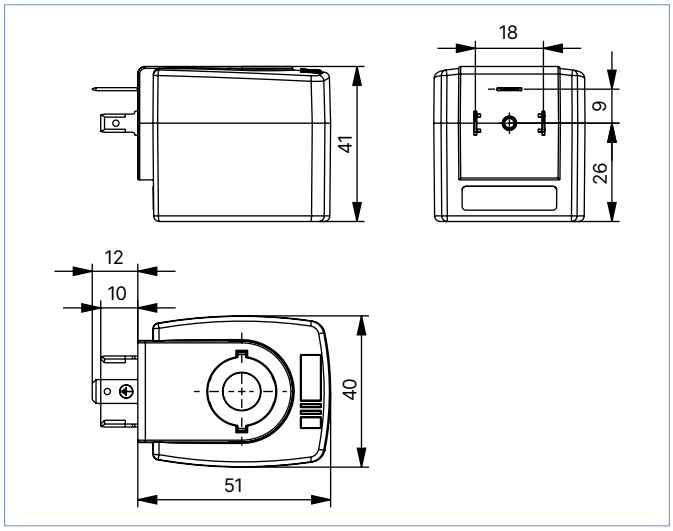
5. Dimensions

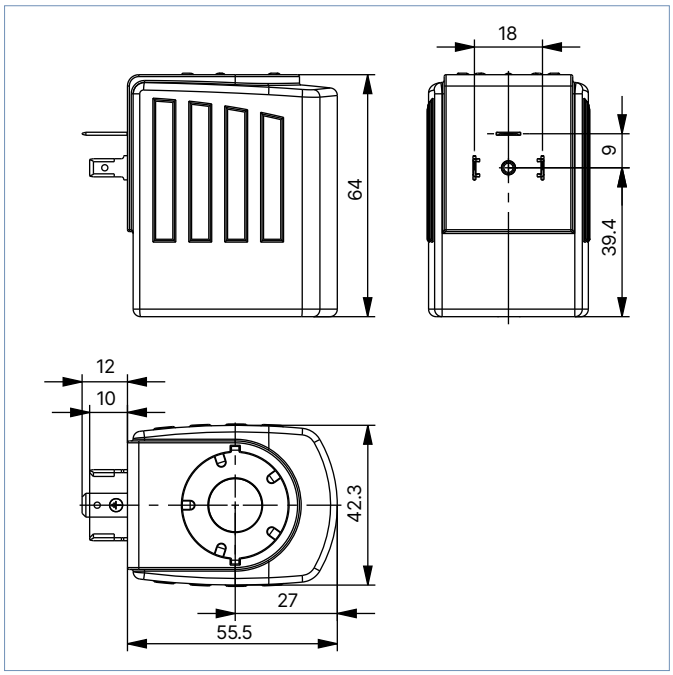
5.1. Standard variant AC10

Note:
Dimensions in mm



5.2. Standard variant AC19

Note:
Dimensions in mm



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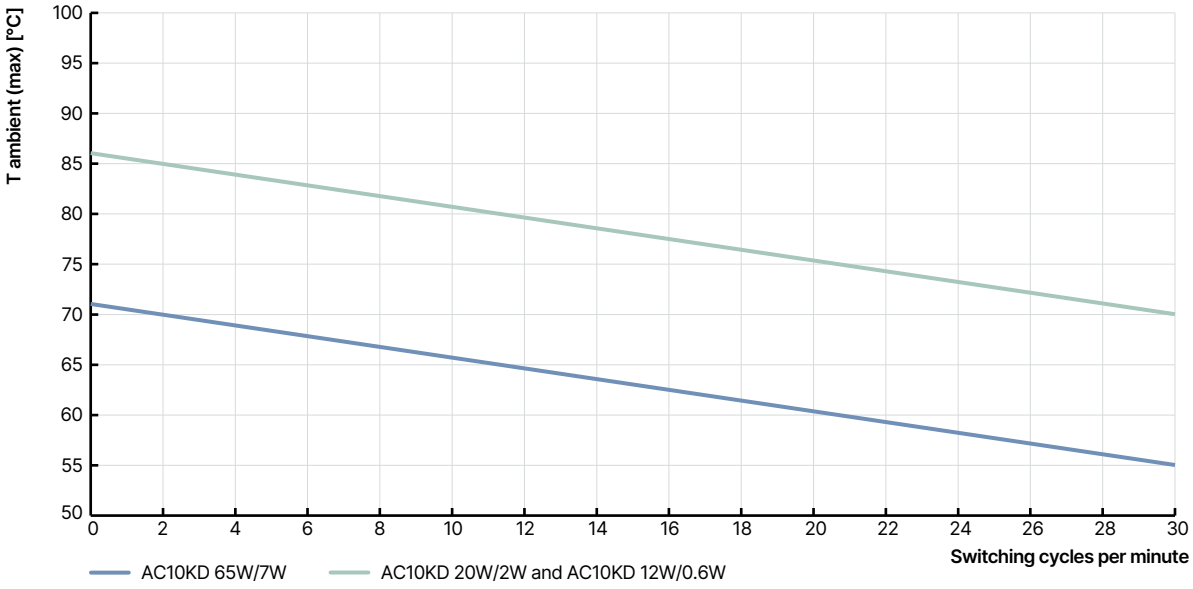
6. Performance specifications

6.1. Temperature diagram

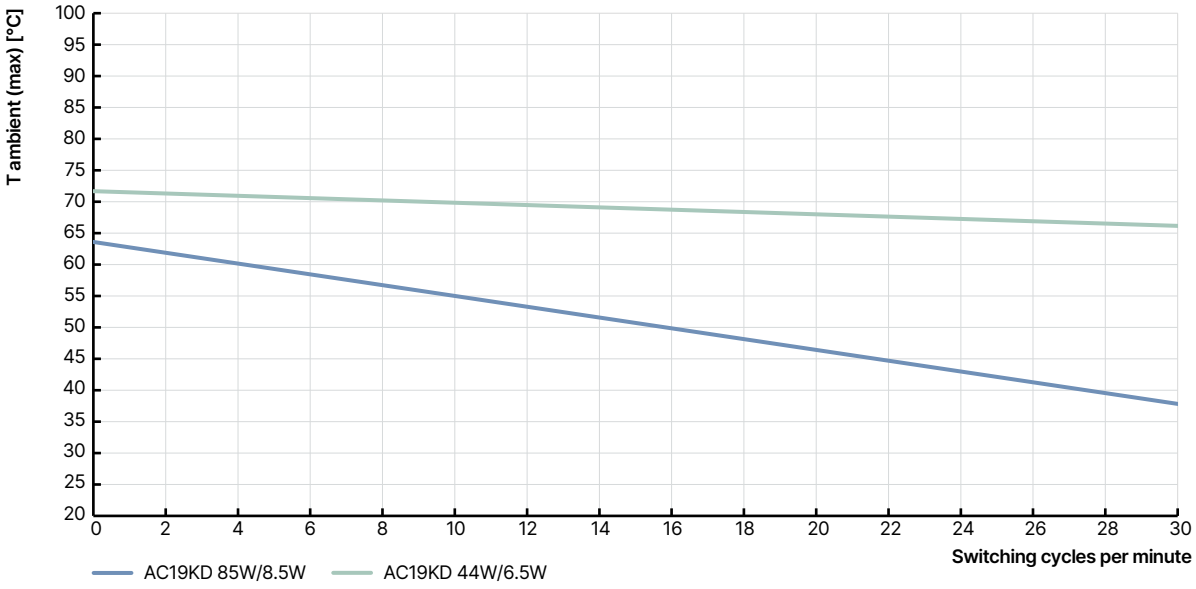
Maximum ambient temperature

Maximum ambient temperature depending on the power level and switching cycles/min at maximum duty cycle.

Type AC10



Type AC19



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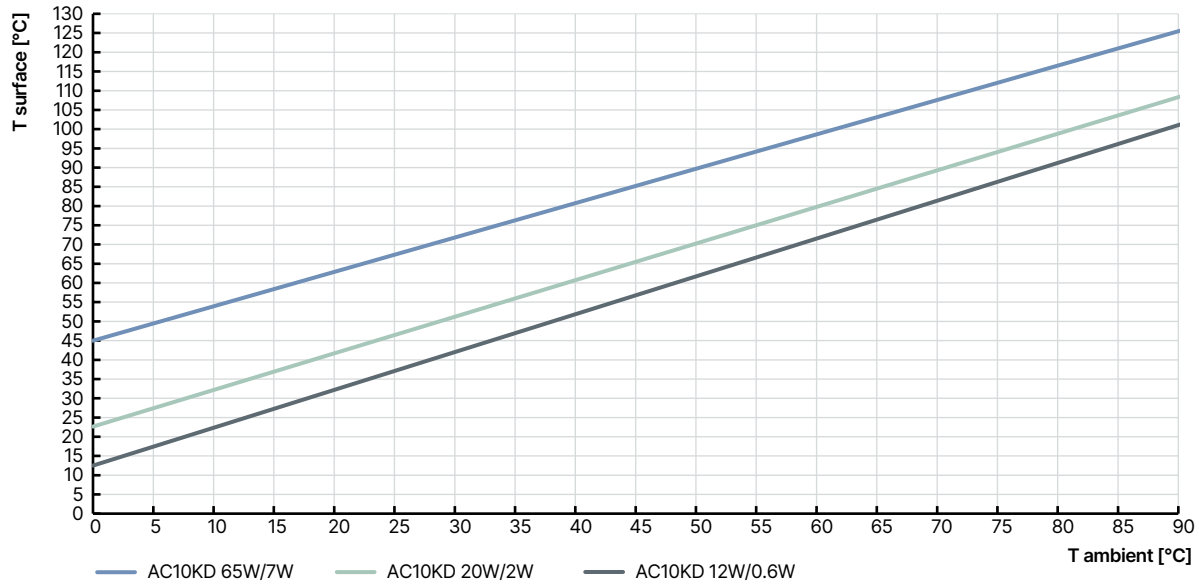
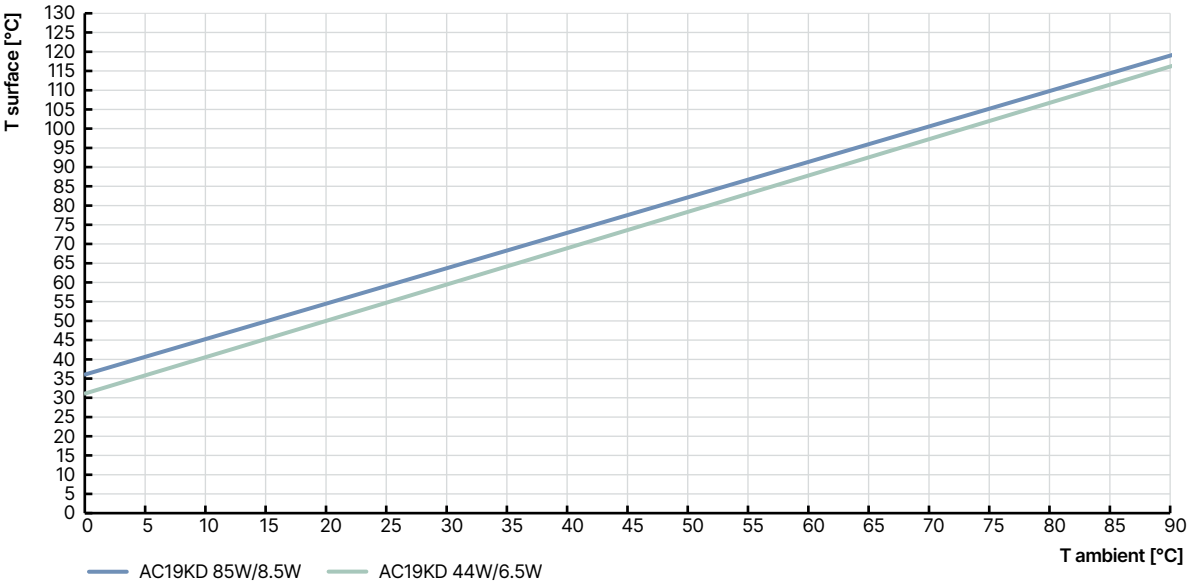
Maximum surface temperature

Maximum surface temperature depending on the power level and ambient temperature at 100 % duty cycle.

Type AC10



Type AC19



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7. Ordering information

7.1. 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

7.2. 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.

Try out our product filter

7.3. Ordering chart for Kick and Drop coil sets

Note:

- As replacement demand or for retrofitting
- Set contains Kick and Drop coil, seal and fixing nut.
- Further variants with alternative voltages are available on request.

Coil type	Recommended solenoid valves 1.)	Electrical connection	Coil power		Article no.	
			Starting power	Holding power	24 / AC/DC	230/AC
			[W]	[W]	[V/Hz]	[V/Hz]
AC10 40 mm	6013, 6014, 6281, 5404, 6240 DN 6	DIN EN 175 301 - 803, form A	12	0.6	20044994	–
		DIN EN 175 301 - 803, form A	20	2	20045040	20045049
		DIN EN 175 301 - 803, form A	65	7	20045051	20045062
AC19 42 mm	6026, 6027, 6407, 6240 DN 12	DIN EN 175 301 - 803, form A	44	6.5	350043	389294
		Cable ATEX/IECEx	44	6.5	389296	389297
		Terminal box ATEX/IECEx	44	6.5	389298	389299
		DIN EN 175 301 - 803, form A	85	8.5	338843	338845

– = not available

1.) A guaranteed use depends on the respective variant and can only be confirmed after consultation with your Bürkert contact person.

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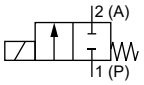
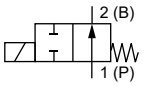
7.4. Ordering chart for Type 6013 with Kick and Drop coil

The Type 6013 valve is a direct-acting 2/2-way plunger valve. The Kick and Drop coil enables the holding power to be reduced by up to 10 watts, depending on the variant, and an increase in the pressure range for the normally closed variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 6013** ▶.
- Further variants with stainless steel body without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_v value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material FKM/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ⅛	1.0	0.04	12	0.6	0...60	20046576	o. r.
	G ¼	2.0	0.12	12	0.6	0...20	20046577	o. r.
		3.0	0.23	12	0.6	0...6	20046578	o. r.
		4.0	0.30	12	0.6	0...2	20046579	o. r.
		6.0	0.55	12	0.6	0...0.5	20046580	o. r.
	G ⅛	1.0	0.04	20	2	0...60	20046581	20072644
	G ¼	2.0	0.12	20	2	0...30	20046582	20072648
		3.0	0.23	20	2	0...10	20046583	20072653
		4.0	0.30	20	2	0...4	20046584	20072657
		6.0	0.55	20	2	0...1	20046585	20072661
CF B 2/2-way solenoid valve Direct-acting Normally open 	G ⅛	1.0	0.04	20	2	0...40	20046612	20046630
	G ¼	2.0	0.12	20	2	0...16	20046613	20046631
		3.0	0.23	20	2	0...8	20046615	20046632
		4.0	0.30	20	2	0...4	20046616	20046633
		6.0	0.55	20	2	0...2	20046617	20046634

o. r. = on request

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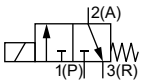
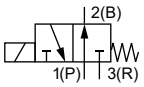
7.5. Ordering chart for Type 6014 with Kick and Drop coil

The Type 6014 valve is a direct-acting 3/2-way plunger valve. The Kick and Drop coil enables the holding power to be reduced to up to 10 watts, depending on the variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 6014** ▶.
- Further variants with stainless steel body without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.
- Kick and drop coil only available with 20 W starting power and 2 W holding power.

Circuit function	Port connection	Orifice	K_v value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material FKM/FKM								
CF C 3/2-way solenoid valve Direct-acting Normally closed 	G ⅛	1.5	0.07	20	2	0...16	20046635	20046663
	G ¼	2.0	0.11	20	2	0...10	20046636	20046664
		2.5	0.16	20	2	0...6	20046637	20046665
		3.0	0.2	20	2	0...4	20046638	20046666
CF D 3/2-way solenoid valve Direct-acting Normally open 	G ⅛	1.5	0.07	20	2	0...16	20046639	20046667
	G ¼	2.0	0.11	20	2	0...10	20046640	20046668
		2.5	0.16	20	2	0...6	20046641	20046669
		3.0	0.2	20	2	0...4	20046642	20046670

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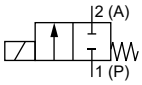
7.6. Ordering chart for Type 6026 with Kick and Drop coil

The Type 6026 valve is a direct-acting, media-separated 2/2-way plunger valve.

Note:

- Further information on the solenoid valve, see data sheet **Type 6026** ▶.
- Further variants with brass body without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_v value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Stainless steel body, G internal thread, seal material PTFE								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ¼	4.0	0.5	44	6.5	0...10	20047000	20047091
		6.0	0.8	44	6.5	0...10	20047001	20047098

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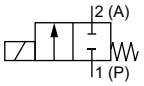
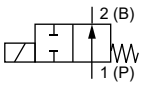
7.7. Ordering chart for Type 6027 with Kick and Drop coil

The Type 6027 valve is a direct-acting 2/2-way plunger valve. The Kick and Drop coil enables the holding power to be reduced by up to 14 watts, and an increase in the pressure range for the normally closed variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 6027** ▶.
- Further variants with stainless steel body, alternative voltages, NPT or RC internal threads, as flange or screw-in variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_v value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material FKM/FKM (for orifice 12.0 mm only stainless steel body possible)								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ¼	3.0	0.28	44	6.5	0...30	20047349	20047359
		4.0	0.54	44	6.5	0...30	20010689	20047360
	G ⅜	6.0	0.95	44	6.5	0...6	20047350	20047361
		8.0	1.6	44	6.5	0...3	20047351	20047362
	G ½	10.0	1.8	44	6.5	0...2	20033786	20047363
		12.0	2.0	44	6.5	0...1.2	386731	386737
CF B 2/2-way solenoid valve Direct-acting Normally open 	G ¼	3.0	0.28	44	6.5	0...13	20047353	20047365
		4.0	0.54	44	6.5	0...10	20047355	20047369
	G ⅜	6.0	0.95	44	6.5	0...6	20047356	20047367
		8.0	1.6	44	6.5	0...3	20047357	20047369
	G ½	10.0	1.8	44	6.5	0...2	374184	20047370
		12.0	2.0	44	6.5	0...1	20047358	20047371

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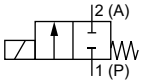
7.8. Ordering chart for Type 6213 with Kick and Drop coil

The Type 6213 valve is a servo-assisted 2/2-way diaphragm valve with spring coupling of the pilot valve and diaphragm.
The Kick and Drop coil enables the holding power to be reduced to up to 14 watts, depending on the variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 6213** ▶.
- Further variants with stainless steel body without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_v value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material FKM/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ⅜	10.0	1.9	20	2	0...10	20047785	20047788
	G ½	13.0	3.6	20	2	0...10	20047786	20047789
				44 [1.)]	6.5 [1.)]		20047791	20047793
	G ¾	20.0	8.3	20	2	0...10	20047787	20047790
				44 [1.)]	6.5 [1.)]		20047792	20047794
	G 1	25.0	11	85	8.5	0...10	20004797	20048204
	G 1¼	25.0	11	85	8.5	0...10	20048207	20048205
	G 1½	40.0	30	85	8.5	0...10	20008169	20048208
	G 2	40.0	30	85	8.5	0...10	20008170	20048210

1.) Recommended for gas and vacuum applications

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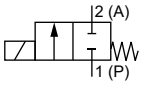
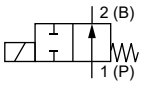
7.9. Ordering chart for Type 6281 with Kick and Drop coil

The Type 6281 valve is a servo-assisted 2/2-way diaphragm valve. A minimum differential pressure is required in order to function. The Kick and Drop coil enables the holding power to be reduced to up to 7 watts, depending on the variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 6281** ▶.
- Further variants with stainless steel body without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_V value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material FKM/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ¼	10.0	1.5	12	0.6	0.2...16	20046906	–
				20	2		o. r.	20046961
	G ⅜	10.0	1.9	12	0.6	0.2...16	20046907	–
				20	2		o. r.	20046962
	G ½	13.0	3.8	12	0.6	0.2...16	20046908	–
				20	2		o. r.	20046963
	G ¾	20.0	8.5	12	0.6	0.2...16	20046909	–
				20	2		o. r.	20046964
	G 1	25.0	12	12	0.6	0.2...16	20046910	–
				20	2		o. r.	20046965
	G 1¼	40.0	23	12	0.6	0.2...16	20046911	–
				20	2		o. r.	20046966
	G 1½	40.0	30	12	0.6	0.2...16	20046912	–
				20	2		o. r.	20046967
	G 2	50.0	40	12	0.6	0.2...16	20046913	–
				20	2		o. r.	20046968
	G 2½	50.0	40	12	0.6	0.2...16	20046914	–
				20	2		o. r.	20046969
CF B 2/2-way solenoid valve Direct-acting Normally open 	G ¼	10.0	1.5	20	2	0.2...16	20046924	20046970
	G ⅜	10.0	1.9	20	2	0.2...16	20046925	20046971
	G ½	13.0	3.8	20	2	0.2...16	20046927	20046972
	G ¾	20.0	8.5	20	2	0.2...16	20046928	20046973
	G 1	25.0	12	20	2	0.2...16	20046929	20046974
	G 1¼	40.0	23	20	2	0.2...16	20046930	20046975
	G 1½	40.0	30	20	2	0.2...16	20046931	20046976
	G 2	50.0	40	20	2	0.2...16	20046932	20046978
	G 2½	50.0	40	20	2	0.2...16	20046933	20046979

o. r. = on request
– = not available

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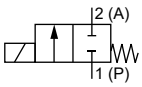
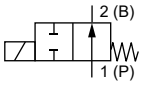
7.10. Ordering chart for Type 5404 with Kick and Drop coil

The Type 5404 valve is a servo-assisted 2/2-way piston valve. A minimum differential pressure is required in order to function.
The Kick and Drop coil enables the holding power to be reduced to up to 9 watts, depending on the variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 5404** ▶.
- Further variants without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_V value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material PTFE/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ½	12.0	2	12	0.6	1...50	20047544	–
				20	2		o. r.	20047551
	G ¾	20.0	7	12	0.6	1...25	20047545	–
				20	2		o. r.	20047552
	G 1	25.0	10	12	0.6	1...25	20047546	–
				20	2		o. r.	20047554
CF B 2/2-way solenoid valve Direct-acting Normally open 	G ½	12.0	2	20	2	1...32	20047547	20047555
	G ¾	20.0	7	20	2	1...25	20047548	20047559
	G 1	25.0	10	20	2	1...25	20047550	20047560

o. r. = on request
– = not available

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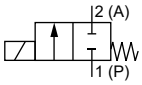
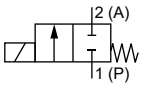
7.11. Ordering chart for Type 6240 with Kick and Drop coil

The Type 6240 valve is a servo-assisted 2/2-way piston valve with spring coupling of the pilot valve and piston.
The Kick and Drop coil enables the holding power to be reduced by up to 14 watts, and an increase in the pressure range, depending on the variant.

Note:

- Further information on the solenoid valve, see data sheet **Type 6240** ▶.
- Further variants with brass body, alternative voltage, NPT or RC internal threads, as flange or cartridge variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_V value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G-internal thread, seal material FKM/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ¼	6.0	0.6	20	2	0...25	20047418	20047420
	G ⅜	6.0	0.6	20	2	0...25	20047419	20047421
Stainless steel body, G-internal thread, seal material FKM/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ½	12.0	2.2	44	6.5	0...25	20047422	20047423

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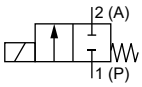
7.12. Ordering chart for Type 6407 with Kick and Drop coil

The Type 6407 valve is a servo-assisted 2/2-way piston valve with fixed coupling of the pilot valve and piston.
The Kick and Drop coil enables the holding power to be reduced to up to 14 watts.

Note:

- Further information on the solenoid valve, see data sheet **Type 6407** ▶.
- Further variants without short circuit ring, alternative voltages, NPT or RC internal threads, as flange variant or other seal materials are available on request.

Circuit function	Port connection	Orifice	K_V value water	Coil power		Pressure range	Article no.	
				Starting power	Holding power		24 / AC/DC	230...240/AC
		[mm]	[m³/h]	[W]	[W]	[bar]	[V/Hz]	[V/Hz]
Brass body, G internal thread, seal material FKM/FKM								
CF A 2/2-way solenoid valve Direct-acting Normally closed 	G ½	13	3.7	44	6.5	0...10	20047532	20047535
	G ¾	20	5.6	44	6.5	0...10	20047533	20047536
	G 1	25	10.0	44	6.5	0...10	20047534	20047537

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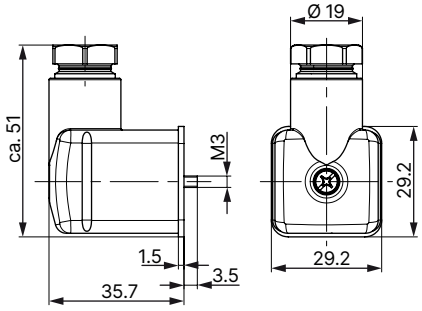
7.13. Ordering chart for accessories

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

Note:

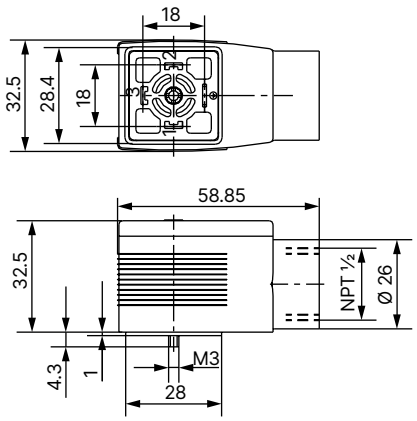
- Dimensions in mm
- For further variants see data sheet **Type 2518** ▶.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (AC/DC)	0...250 V AC/DC	314802
		With LED (AC/DC)	12...24 V AC/DC	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820
		Without wiring (AC/DC) with silicone seal for higher ambient temperature, e.g. steam variant (NA07)	0...250 V AC/DC	361687

Cable plug Type 2509, form A according to DIN EN 175301 - 803

Note:

- Dimensions in mm
- Without wiring (standard)
- The cable plug Type 2509 meets the requirements of ATEX Cat. 3 GD in assembly with a Bürkert solenoid valve.
- The cable plug Type 2509 meets the requirements of UL Listed (UL 429) in assembly with a Bürkert solenoid valve.
- Refer to data sheet **Type 2509** ▶ for more information about the cable plug.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring	0...250 V AC/DC	137943

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