

## 2/2-way Mini Solenoid Valve, G 1/8



Type 6027 Mini can be combined with...



**Type 2507**  
Cable plug



**Type 6011**  
Multiple manifold  
(e.g. 6-fold)

Type 6027 is a direct-acting solenoid valve used for shut-off, dosing, filling, ventilating and for vacuum. The push-over solenoid system is of modular design and the coil can be rotated 360°.

### Circuit function A



- Direct-acting, normally closed
- Brass and stainless steel body
- Electrical connection cable plug Form B (industrial standard)

Technical data	
<b>Port connection</b>	G 1/8 (NPT 1/8, Rc 1/8 on request)
<b>Orifice</b>	DN 1.2 – 2.5
<b>Body materials</b>	Brass or stainless steel 1.4404 (316L)
<b>Coil materials</b>	Epoxy (polyamide on request)
<b>Coil insulation class</b>	Epoxy class H (on request polyamide class B)
<b>Seal material</b>	FKM (EPDM on request)
<b>Media</b>	Vacuum, neutral gases and fluids (e.g. compressed air, water, hydraulic oil) and slightly aggressive media (stainless steel version)
<b>Media temperature</b>	Epoxy coil (Form B) -10° to +120°C Polyamide coil (Form C) -10° to +100°C
<b>Ambient temperature</b>	max. +55°C
<b>Viscosity</b>	max. 21 mm <sup>2</sup> /s
<b>Operating voltage</b>	24 V DC, 24 V/50 Hz, 230 V/50 Hz
<b>Voltage tolerance</b>	±10%
<b>Duty cycle/single valve</b>	100% continuous rating
<b>Electrical connection</b>	according to <ul style="list-style-type: none"> <li>▪ Form B Industrial standard for Type 2507 (see Ordering chart for Accessories)</li> <li>▪ DIN EN 175301-803 Form C for cable plug Type 2506</li> <li>▪ Flying leads</li> </ul> on request
<b>Protection class</b>	IP65 with cable plug
<b>Weight</b>	115 g
<b>Installation</b>	As required, preferably with actuator in upright position

## Technical data, continued

## Power consumption

Orifice [mm]	Power consumption			DC (hot / cold coil) [W]
	Inrush AC [VA]	Hold AC (hot coil) [VA]	[W]	
1.2 - 2.5	9	6	4	5 / 6.5

## Response times

Orifice [mm]	Response times AC and DC	
	Opening [ms]	Closing [ms]
1.2 - 2.5	7-10	10-15

## Response times [ms]:

Measured at valve outlet at 6 bar and +20 °C

Opening: pressure build-up 0 to 90%,

closing: pressure relief 100 to 10%

## Programme overview of the 6027 Series

## The 6027 Series

## Mini

AC07 coil



G 1/8  
2/2, 3/2-way

## Small

AC10 coil



G 1/8 - G 3/8, sub-base  
2/2, 3/2-way

## Compact

AC19 coil



G 1/4 - G 1/2  
2/2-way

The 6027 series consists of three construction sizes:

**Mini** AC07 coil (20 mm), **Small** AC10 coil (32 and 40 mm) and **Compact** AC19 coil (42 mm).

The modules can be combined to allow all variations of functions, temperature ranges, coil ratings, seal- and body materials. The idea behind the programme is to simplify selection, minimise components by means of standardisation and allow virtually unlimited combinations of options.

For further information about the different construction sizes please see individual datasheets

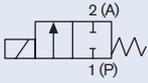
6027\_mini\_2/2 & 3/2-way

6027\_small\_2/2 & 3/2-way

6027\_compact\_2/2-way

## Ordering chart for valves (further versions on request)

All valves with AC07 coil (20 mm), seal material FKM, without cable plug

Circuit function	Port connection	Orifice [mm]	Kv value water [m <sup>3</sup> /h] <sup>1)</sup>	Pressure range [bar] <sup>2)</sup>		Item no. per voltage/frequency [V/Hz]			
				DC	AC	024/DC	024/50	230/50	
<b>A</b> 2/2-way valve NC 	Threaded port 20 mm 	<b>Brass body</b>							
		G 1/8	1.2	0.05	0-10	0-20	178 788	178 789	178 790
			1.7	0.1	0-6	0-10	177 503	177 504	177 505
			2.0	0.11	0-4	0-8	177 506	177 507	177 508
			2.5	0.14	0-3	0-6	177 509	177 510	177 511
		<b>Stainless steel body</b>							
		G 1/8	1.2	0.05	0-10	0-20	178 791	178 792	178 793
			1.7	0.1	0-6	0-10	177 512	177 513	177 514
			2.0	0.11	0-4	0-8	177 515	177 516	177 517
			2.5	0.14	0-3	0-6	177 518	177 519	177 520

<sup>1)</sup> Measured at +20 °C, 1 bar<sup>2)</sup> pressure at valve inlet and free outlet.<sup>2)</sup> Overpressure with respect to atmospheric pressure**Please note** that the cable plug has to be ordered separately, see Accessories on next page and separate datasheet for Type 2507.**i** Further versions on request**Materials**

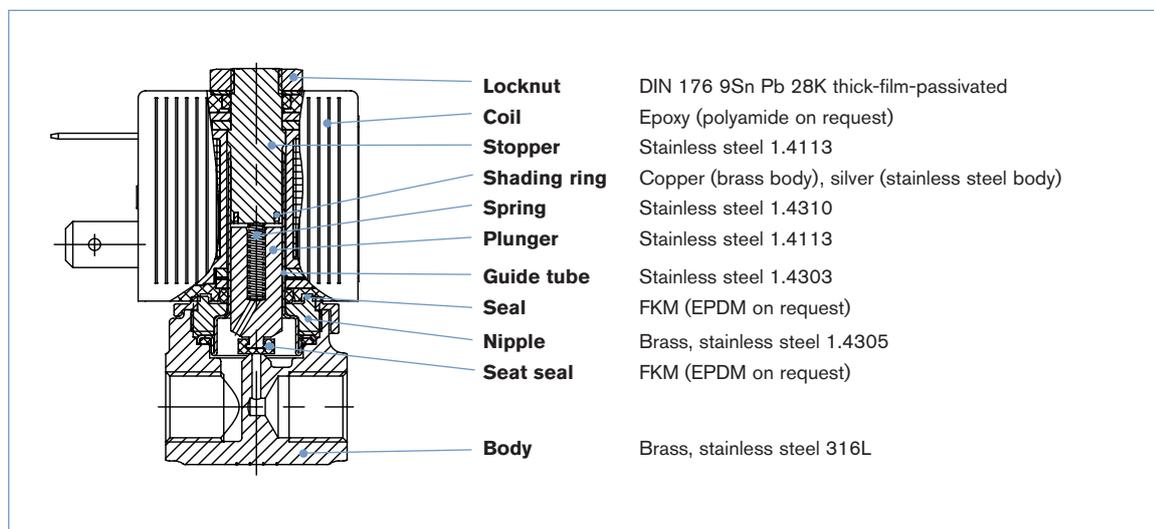
Seal material EPDM, FDA, KTW

**Electrical connection**Cable plug connection acc. to DIN EN 175301-803 Form C  
Flying leads**Port connection**NPT 1/8, Rc 1/8  
For sub-base connection, see Type 201/6011**Voltage**

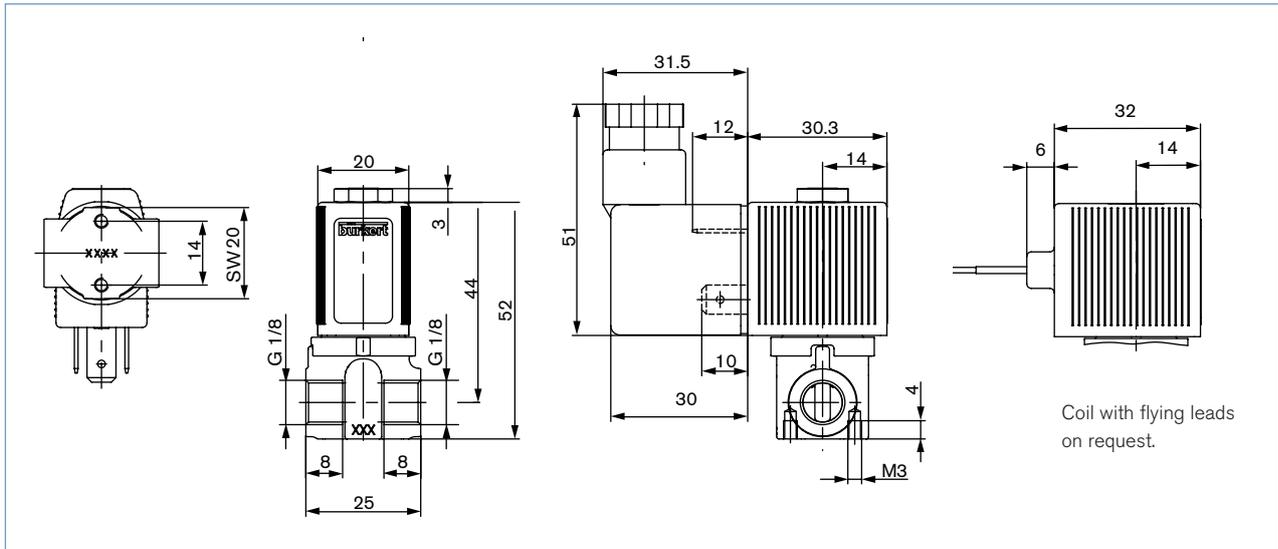
Non-standard voltages

**Approvals**

UR, CSA

**Materials**

**Dimensions [mm]**



Coil with flying leads on request.

**Ordering chart for accessory**

**Cable plug Type 2507, Form B Industrial standard**

	Circuitry	Features	Item no.
	None (standard)	0 - 250 V AC/DC	423 845
	with LED	12 - 24 V AC/DC	423 849
	with LED and freewheeling diode	12 - 24 V AC/DC	423 851

Supplied with cable plug: flat seal and fixing screw.  
Other versions of cable plug Form B Industrial standard with circuitry see separate datasheet Type 2507.

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In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

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