

3/2-way Mini Solenoid Valve, G 1/8



- Direct-acting, normally closed and normally open
- Brass and stainless steel body
- Electrical connection cable plug Form B (industrial standard)
- With or without manual override as standard

Type 6027 Mini can be combined with...



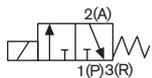
Type 2507
Cable plug



Type 6012
Multiple manifold
(e.g. 6-fold)

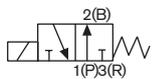
Type 6027 is a direct-acting solenoid valve used for shut-off, dosing, filling, ventilating and for vacuum. The push-over solenoid system is of modular design and the coil can be rotated 360°.

Circuit function C



3/2-way valve NC,
outlet 2 relieved

Circuit function D



3/2-way valve NO,
outlet 2 normally
pressurized

Technical data	
Port connection	G 1/8
Orifice	DN 1.2 - 1.6
Body materials	Brass or stainless steel 1.4404 (316L)
Coil materials	Epoxy (polyamide on request)
Coil insulation class	Epoxy class H (on request polyamide class B)
Seal material	FKM (EPDM on request)
Media	Vacuum, neutral gases and fluids (e.g. compressed air, water, hydraulic oil) and slightly aggressive media (stainless steel version)
Media temperature	-10° to +120°C
Ambient temperature	max. +55°C
Viscosity	max. 21 mm ² /s
Operating voltage	24 V DC, 24 V/50 Hz, 230 V/50 Hz
Voltage tolerance	±10%
Duty cycle/single valve	100% continuous rating
Electrical connection	according to <ul style="list-style-type: none"> ▪ Form B Industrial standard for cable plug Type 2507 (see Ordering chart for Accessories) on request <ul style="list-style-type: none"> ▪ DIN EN 175301-803 Form C for cable plug Type 2506 ▪ Flying leads
Protection class	IP65 with cable plug
Weight	115 g
Installation	As required, preferably with actuator in upright position

Technical data, continued

Power consumption

Orifice [mm]	Power consumption			
	Inrush AC [VA]	Hold AC (hot coil) [VA]	[W]	DC (hot / cold coil) [W]
1.2-1.6	9	6	4	5 / 6.5

Response times

Orifice [mm]	Response times AC and DC	
	Opening [ms]	Closing [ms]
1.2	7-10	9-12
1.6	7-12	7-12

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

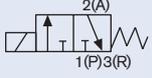
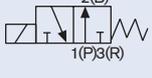
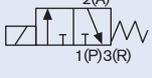
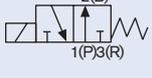
6027_mini_2/2 & 3/2-way

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 and without cable plug

Circuit function	Port connection	Orifice [mm]	Kv value water [m ³ /h] ¹⁾	Pressure range [bar] ²⁾	Item no. per voltage/frequency [V/Hz]			
					024/DC	024/50	230/50	
Without manual override								
C 3/2-way valve NC, outlet 2 relieved 	Threaded port 20 mm 	Brass body						
		G 1/8	1.2	0.045	0-10	177 549	177 550	177 551
			1.6	0.06	0-6	177 552	177 553	177 554
		Stainless steel body						
		G 1/8	1.2	0.045	0-10	177 559	177 560	177 561
			1.6	0.06	0-6	177 562	177 563	177 564
D 3/2-way valve, NO, outlet 2 normally pressurized 	Threaded port 20 mm 	Brass body						
		G 1/8	1.2	0.045	0-10	177 555	177 556	177 557
			1.6	0.06	0-6	177 558	177 718	177 719
		Stainless steel body						
		G 1/8	1.2	0.045	0-10	177 565	177 566	177 567
			1.6	0.06	0-6	177 568	177 569	177 570
With manual override								
C 3/2-way valve NC, outlet 2 relieved 	Threaded port 20 mm 	Brass body						
		G 1/8	1.2	0.045	0-10	177 721	177 722	177 723
			1.6	0.06	0-6	177 724	177 725	177 726
		D 3/2-way valve, NO, outlet 2 normally pressurized 	Threaded port 20 mm 	Brass body				
G 1/8	1.2			0.045	0-10	177 727	177 728	177 729
	1.6			0.06	0-6	177 730	177 571	177 572

¹⁾ Measured at +20 °C, 1 bar²⁾ pressure at valve inlet and free outlet.²⁾ Overpressure with respect to atmospheric pressure**Please note** that the cable plug has to be ordered separately, see Accessories on page 5 and separate datasheet for Type 2507.**i Further versions on request****Materials**

Seal material EPDM

**Electrical connection**Cable plug connection acc. to DIN EN 175301-803 Form C
Flying leads**Port connection**

For sub-base connection, see Type 6012

**Voltage**

Non-standard voltages

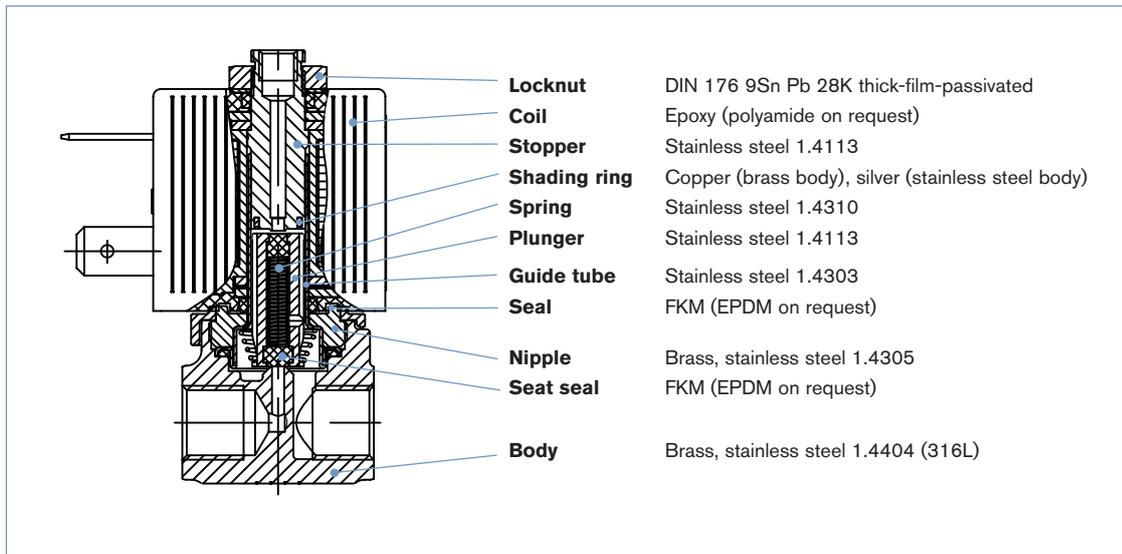
**Approvals**

UR, CSA

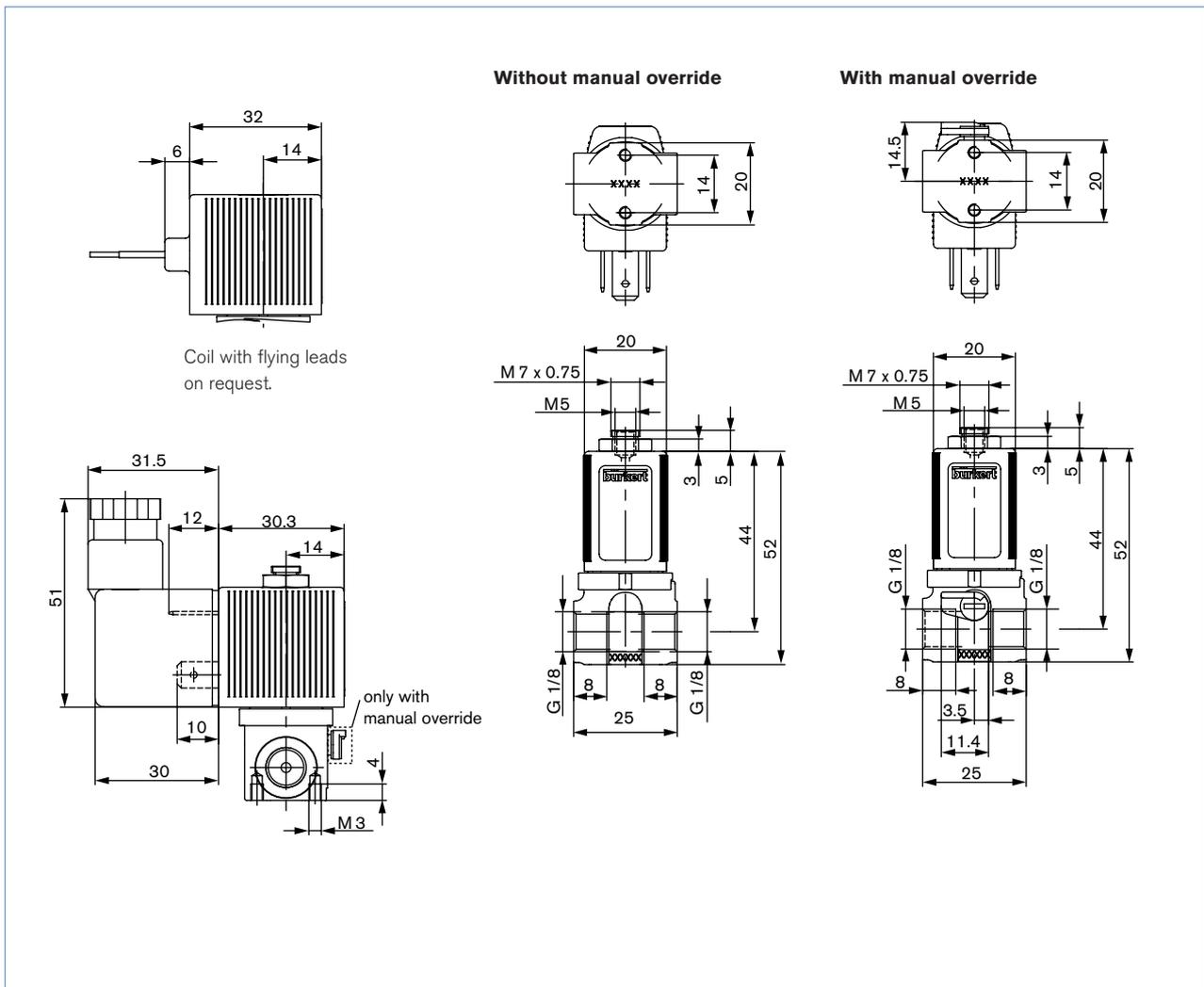
**Additional**

Oxygen versions

Materials

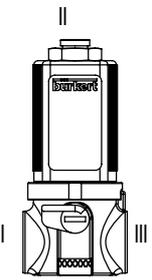
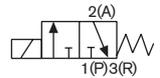
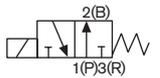


Dimensions [mm]



Port connection chart

The ports marked with I, II and III are marked as in the configuration table, depending on the circuit function

Possible port configurations				
Circuit function / Port	I	II	III	
C 	1(P)	3(R)	2(A)	
D 	3(R)	1(P)	2(B)	

Ordering chart for accessory

Cable plug Type 2507, Form B Industrial standard

	Circuitry	Voltage / frequency	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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