

#### Safety

#### Correct Usage

This user's information is valid for the following construction types\*: 3 to 10, 14 to 27, <sup>2</sup>0 and 71

a type designation

The solenoid are used to operate valves from the Eugen Seitz AG company. The correct solenoid for each valve must be selected together with the manufacturer or his representatives

#### Authorised persons

The work described here must only be carried out by authorised persons. Authorised persons are persons who have received electrotechnical instruction (EN 60 204)

## Regarding this user's information

This user's information is a component part of the product, and must be integrated into the instruction handbook of the system or into the machine description.

# **General Danger Warnings**



Before starting the connection work, ensure that the operating voltage has been switched off, and has been secured against unauthorised switch on.



The housing of the solenoid can be more than 100 °C hot. There is danger of burning when the housing is touched.

### Guarantee

The problem-free operation of the solenoid is only guaranteed if the key values quoted in the "Technical Data" chapter and the conditions listed in the "Operating Conditions" chapter are complied with.

### IP protection class according to EN 60 529

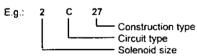
To ensure the quoted class of protection, the sockets listed under "Connection Variants" must be used. The cross-section of the connection cable must be as follows:

Construction type 14, 25: Construction type 71:

6 to 9 mm 5 to 12 mm

### pe Designation

The type designation is coded as follows:



## **Connection Variants**

Solenoids with connectors

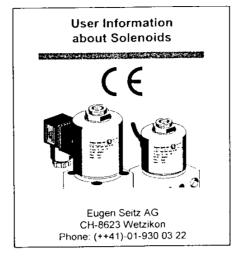
Sockets

DIN 43650 Form A Art. No. 119 896 01

Solenoids with connection cables Use terminals for fine-stranded cable with 0.75 mm<sup>2</sup>.

Solenoids with connection terminals Use cables with copper cross-section from 0.75 to 1.5 mm<sup>2</sup>.





### Disposal

For economical reasons, the solenoid should not be repaired, but be disposed as special waste, or be returned to the manufacturer.

## Installation / Dismantling

Before beginning the work described here, the chapters "Safety" and "General Danger Warnings" must be read and understood.

#### Installation

Push the solenoid over the guide tube of the valve, and secure using the securing disc and the nut. The nut must be tightened using a suitable tool in such a way that a distortion of the solenoid as a result of the vibrations to be expected is no longer possible.

#### **Connection Work**

The circuit printed on the name plate is mandatory for the electrical connection of the solenoid. The protective conductor (green-yellow) must be correctly connected if present.

### Dismantling

The connector or cable is to be dismantled in accordance with the general danger warnings. Loosen the fixing nut with a suitable tool, and remove the solenoid from the auide tube

## **Operating Conditions**

Power supply

Harmonics:

Harmonic oscillations have no effect on the functionality if the r.m.s. value of the sum of all the voltages lies within the tolerance quoted

for the rated voltage

Voltage impulses:

Peak values: ≤1,000 V, time duration: ≤1.5 ms

Voltage interruptions or loss:

The exact value depends on the valve and should therefore be

requested from the manufacturer.

Over-current protection:

Fuse with max. 10 A. The breaking capacity must be at least as large as the short-circuit current that can be expected at the instal-

lation location.

**Electromagnetic Compatibility** 

Emission:

The solenoid transmits no radiated disturbances (according to

EN 50 081-1).

With circuit types variants "A" and "B", conducted disturbances are to be expected. In this case, the operator must take suitable measures to limit the transient switching voltage to a level permitted for

Immunity:

The solenoids are not sensitive to radiated disturbances (according

to EN 50 082-2).

For conducted disturbances, follow the information given regarding power supplies. Withstand surge voltages of Over-voltage Category III according to IEC 664 are permissible between the currentconducting parts and parts connected to the protective conductor.

Requirements arising from operational and environmental conditions, such as ionised and nonionised radiation, vibration, shock and continuous shock must be discussed individually with the manufacturer.

### **Technical Data**

Rated voltage: Rated frequency: Rated power: Operating time: Ambient temperature:

Relative humidity:

according to name plate according to name plate according to name plate according to name plate

-15 %, +10 % ±1 % continuous, ±2 % short-term

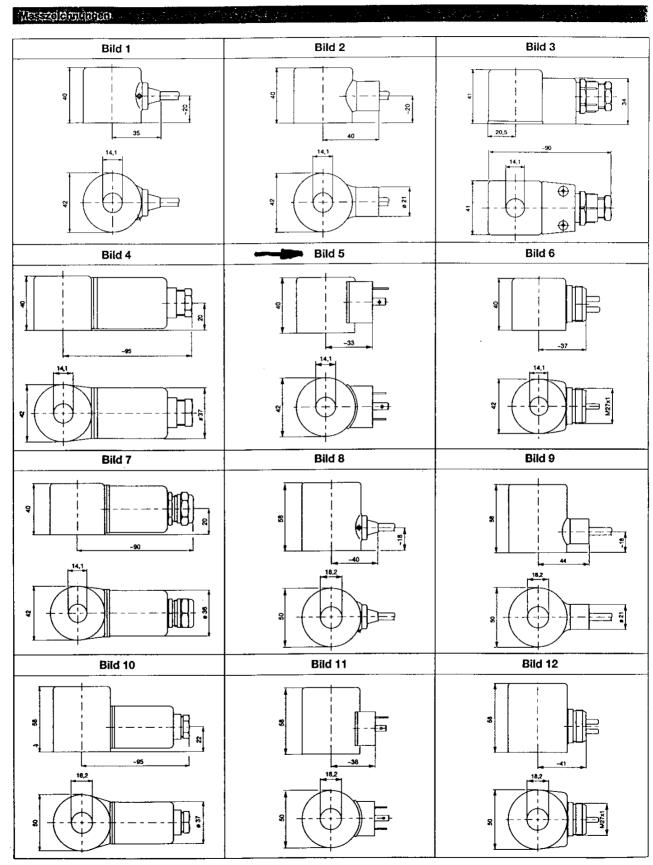
with connecting cable: construction type 70: all other types:

otherwise 100 % (continuous duty) -5 °C to +40 °C -20 °C to +40 °C

-20 °C to +60 °C max. 95 % (non-condensing) max. 2,000 m NN

Installation height: as IP protection class on name plate Protection against soiling:





\*) ohne Würgnippel



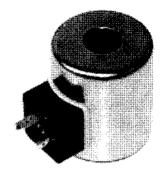
# Solenoid size MT 1, MT 2 series 27, 37

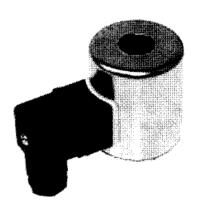
- · Germanish Lloyd approved
- · Exchange is all time possible on self mounting
- 100 % on-time
- · Connector on DIN 43 650 form A
- · Vibration proof, dirt proof and weather proof

Technical specification	<b>(</b> €						
Voltage MT 1 / MT 2	8W, 8VA / 11W, 15VA						
Media and ambient temperature	-20 °C +60 °C						
Protection type	EN 60529						
Type of control	DC						
Type of control	AC						
Power on-time	100 %						
Approval	EN 60 204-1 / DIN VDE 0580						
Ports	DIN 43 650 Form A						
Weight MT 1 (without cable box)	IP 54 210 gr. / IP 65 250 gr.						
Weight MT 2 (without cable box)	IP 54 470 gr. / IP 65 530 gr.						

Solenoid size MT 1									
Voltage	Hz	External dimension	Approval	Degree of protection [IP]	Part no.	Fig. no.			
24 V DC		Ø 42/54 x 40 mm		54	118.000.024P	1			
24 V DC	-	Ø 42/54 x 40 mm	Х	65	118.007.024P	1			
230 V AC	50 65	Ø 42/54 x 40 mm		54	118.039.230S55	1			
230 V AC	50	Ø 42/54 x 40 mm	X	65	118.052.230850	1			

Solenoid size MT 2									
Voltage	Hz	External dimension	Approval	Degree of protection [IP]	Part no.	Fig. no.			
24 V DC	_	Ø 50/63 x 58 mm		54	118.100.024N	2			
24 V DC	_	Ø 50/63 x 58 mm	Х	65	118.113.024N	2			
230 V AC	50 60	Ø 50/63 x 58 mm		54	118.101.230O55	2			
230 V AC	50 60	Ø 50/63 x 58 mm	X	65	118.114.230055	2			





# Further models on request.

Solenoid mounting parts are included in the part no.. Wireless PG 11 Part no. 113.594.01 are not included in the part no.. It will by order separately.