

## DC Valve Solenoids for Pneumatics

# 3

Product group

## G BK R 010 K00 B01/B02

- According to DIN VDE 0580
- Armature space pressure-tight up to 20 bars static pressure
- Insulation materials of the exciter coil correspond to thermal class F
- Electrical connection and protection class with duly executed assembly:
  - Plug connection by spade connectors  
Protection class according to DIN VDE 0470/  
EN 60529 – IP 00
- Mounting with through bolt
- Serial mounting possible
- Sealing between solenoid and valve through o-ring
- Modifications and special designs on request
- Application examples:

Actuation of 2/2 and 3/2-way-seat-valves, especially for pneumatics and other gasiform and fluid neutral media
- Ability to deliver: on request

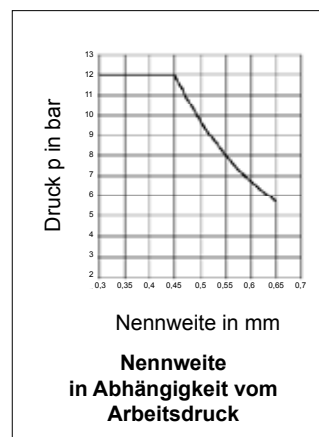


Fig. 1: G BK R 010 K00 B01



## Technical data

G BK R 010 K00	B01	B02
Voltage $U_N$	24 VDC $\pm$ 10 %	24 VDC $\pm$ 10 %
Operating mode	S1 (100%)	S1 (100%)
Rated current $I_{20}$	40 mA	40 mA
Drop current $I_{ab}$	$\leq$ 2 mA	$\leq$ 2 mA
Actuation voltage $U_{an}$	$\geq$ 21,6 V DC	$\geq$ 21,6 V DC
Rated Power $P_{20}$	1 W	1 W
Media	Oiled and non oiled filtered air	Oiled and non oiled filtered air
Media temperature	-5 °C ... +80 °C	-5 °C ... +80 °C
Ambient temperature	-5 °C ... +50 °C	-5 °C ... +50 °C
Rated stroke of the solenoid	0,3 mm	0,3 mm
Rated force of the solenoid	0,4 N	0,4 N



Rated voltage  $\approx$  24 V, the exciter coil can be adjusted to a rated voltage of  $\approx$  36 V maximum on request.

The magnetic force values indicated in the tables refer to 90% of the rated voltage without spring ( $U_N = \approx$  24 V, for other voltages variations of magnetic force may occur) and to the normal operating temperature.

Due to natural dispersion the force values may deviate by approx. 10% from the values indicated in the tables.

The normal operating temperature is based on:

- Mounting on heat insulating base
- Rated voltage  $\approx$  24 VDC
- Operating mode S1 (100%)
- Reference temperature 50° C

These data refer to the media compressed air and the application as 3/2-way-valve de-energized closed.

We recommend using compressed air corresponding to DIN ISO 8573/1, class 3. Elastomer neutral oils should be used for lubricating the compressed air, otherwise we ask you to please contact the manufacturer.

This part list is a document for technically qualified personnel. The present publication is for informational purposes only and shall not be construed as mandatory illustration of the products unless otherwise confirmed expressively.

**Please make sure that the described devices are suitable for your application. Supplementary information concerning its duly assembly can be found also in -Technical Explanations, in the effective DIN VDE0580 as well as in the relevant specifications.**

**Information and remarks concerning European directives** can be taken from the correspondent information sheet which is available under *Produktinfo.Magnet-Schultz.com*.

### Note on the RoHS Directive

According to our current state of knowledge the devices pictured in this document do not contain any substances in concentration values or applications for which putting into circulation with products manufactured from them is prohibited in accordance to RoHS.

Type	Circuit diagram	Function
G BK R 010 K00 B01		3/2 NC
G BK R 010 K00 B02		2/2 NC

### Order example

Type                    G BK R 010 K00 A01  
Voltage                 $\approx$  24 V DC  
Operating mode      S1 (100%)

### Specials designs

Please do not hesitate to ask us for application-oriented problem solutions. In order to find rapidly a reliable solution we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant -Technical Explanations.

If necessary, please request the support of our corresponding technical office.

# Dimensional drawing

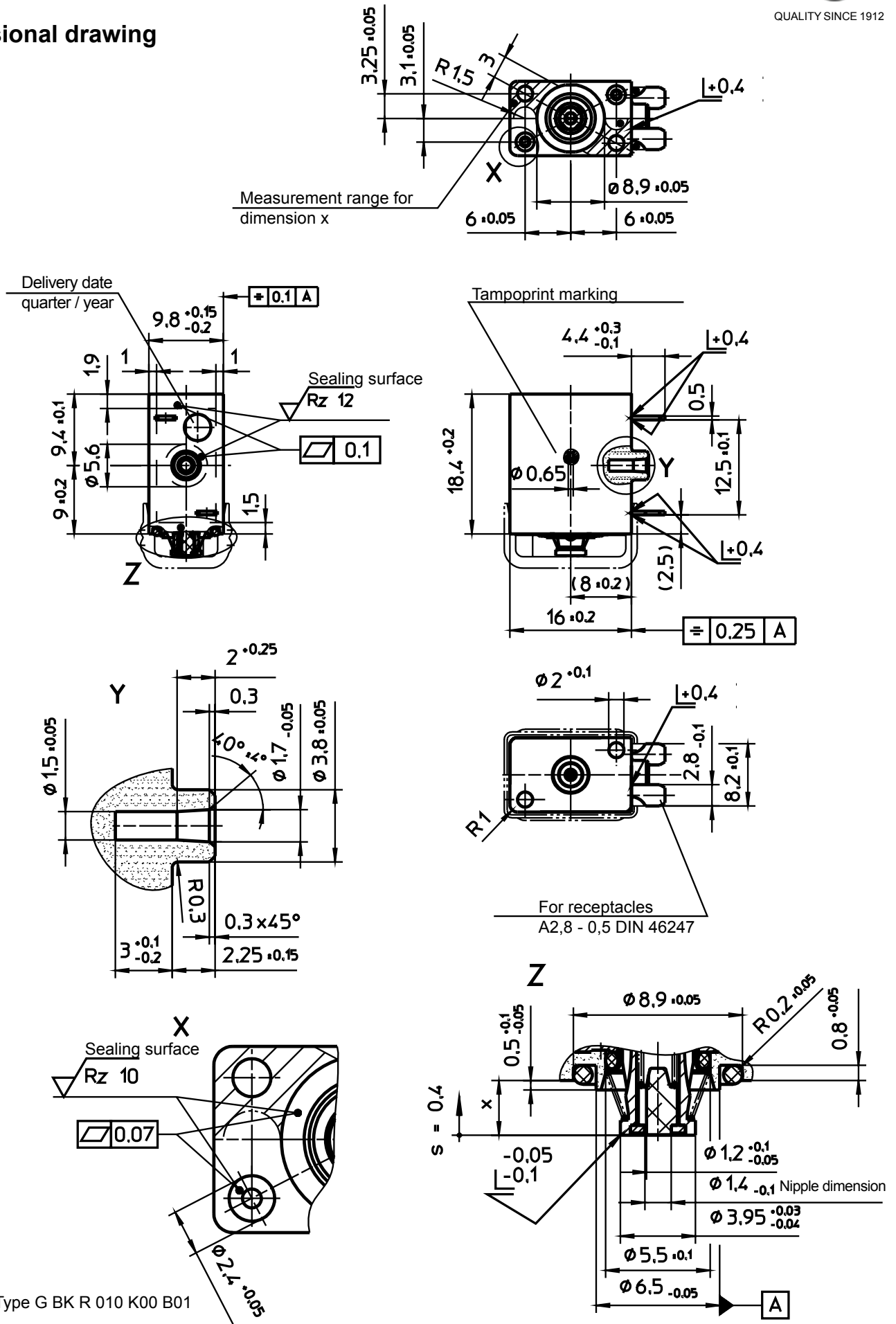


Fig. 2: Type G BK R 010 K00 B01



# Dimensional drawing

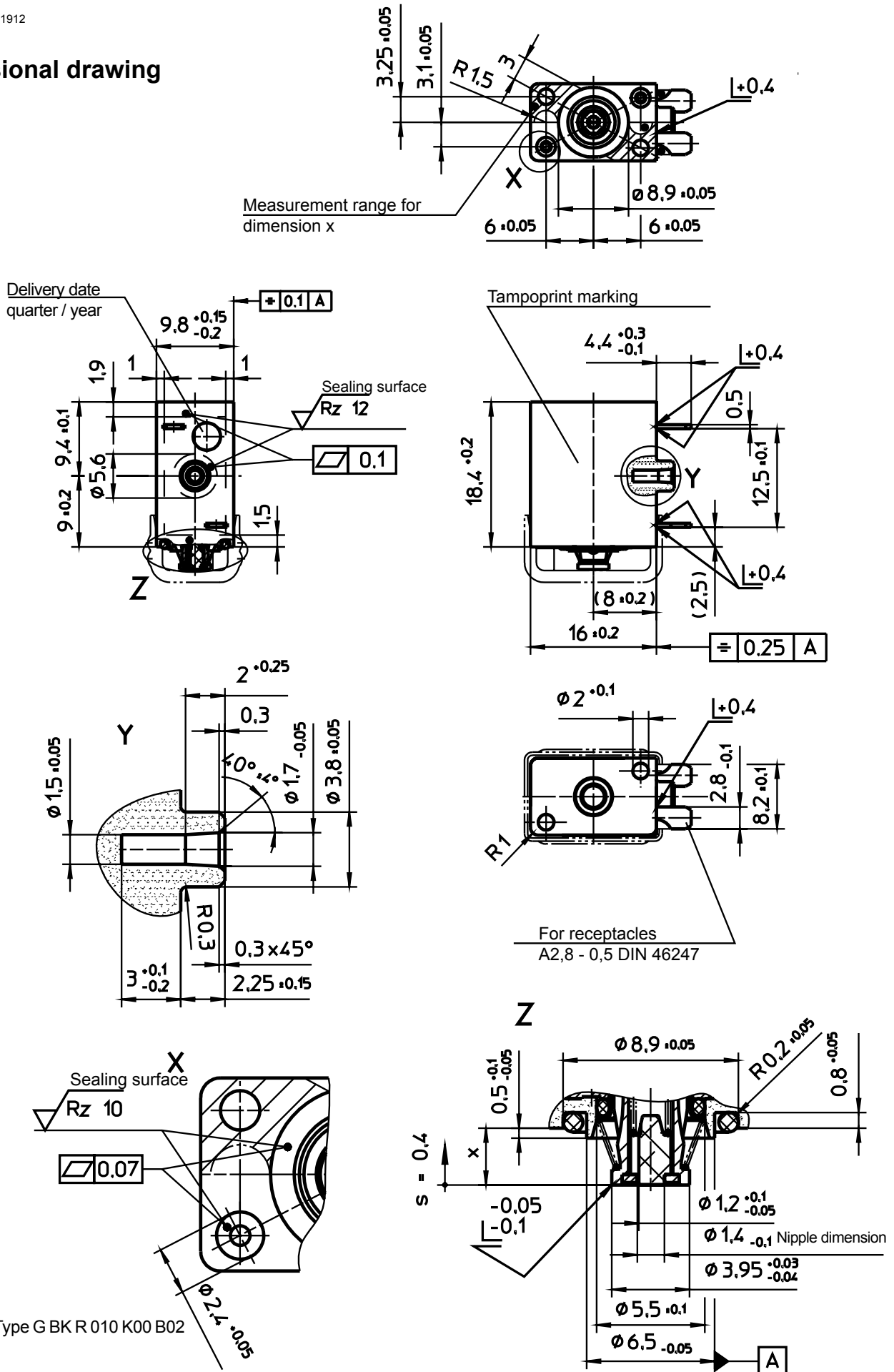


Fig. 3: Type G BK R 010 K00 B02