MAGNET-SCHULTZ

SPECIALISTS IN ELEKTROMAGNETIC DEVICES



Proportional Solenoids to RL 94/9/EG (ATEX 95)

4
Product Group

G RC E

- To DIN VDE 0580 and RL 94/9/EG (ATEX 95)
- Pressure-tight armature space, rated operating pressure 250 bar
- Magnetic force/stroke characteristik horizontal within proportional control range
- To a large extent proportional behaviour between force and current
- Small hysteresis through precise armature bearing
- Quick floating times
- Pushing type
- Mounting via central thread
- Simple exchange of the coil without opening the hydraulic circuit
- Coil winding to insulation classification H
- Electrical connection and protection class if mounted properly:
 - Connection cable Li12Y11Y 3 x 1,5
 Protection class to DIN VDE 0470/EN 60 529 IP67
 Explosion protection II 2G EEx m II T4
 Supplementation of permission for dust guard, 2D, is being prepared.
- Manual override
- Modifications and special designs on request
- Application examples: Particularly used as proportional actuator in hydraulic control systems and control circuits



Fig. 1: G RC E 037 AMX A01



Technical Data

G RC E 037 AMX A01		
Operating mode	S1 (100 %)	
Rated Voltage UN	24 V	
Rated Resistance R ₂₀	23.1 Ω	
Rated Current IN	0.6 A	
Control Current Range	0 to 0.66 A	
Maximum Power Pg	15.6 W	
Ambient temperature T _a	- 20° to + 50° C	

Mounting on hydraulic valve with multiple mounting in single operation:

minimum size: 46 x 46 x 66 mm³ on

base plate 46 x 66 x 30 mm³

material: iron or material with equal, or better heat

respectively.

Be appropriate measures it is to be ensured that the given maximum values, especiallz the control current level, are not exceeded.

On request the coil winding can be adjusted to other current and resistance values .

Owing to natural dispersion the magnetic-force values may deviate by \pm 5% from the listed values.

On request, the armature space can be de-aerated and the pushrod can be adjusted.

Mech. modifications of the flange are possible on request.

The Solenoid interior and armature bearing are resistant to all neutral fluids that are commonly used in hydraulics.

Please contact us if you intend to use other operating media.

Please notice the relevant operating manuals which are delivered with each device. A declaration of the manufacturer is enclosed once.

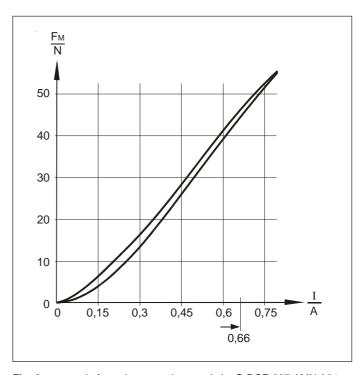


Fig. 2: magnetic force / current characteristic G RCE 037 AMX A01 at s = 1 mm

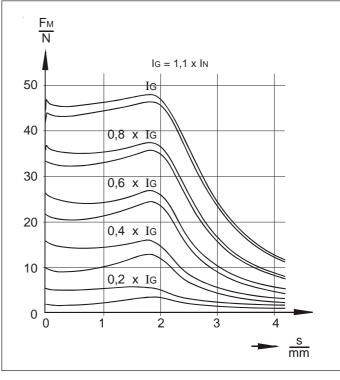


Fig. 3: magnetic force / stroke characteristic G RCE 037 AMX A01

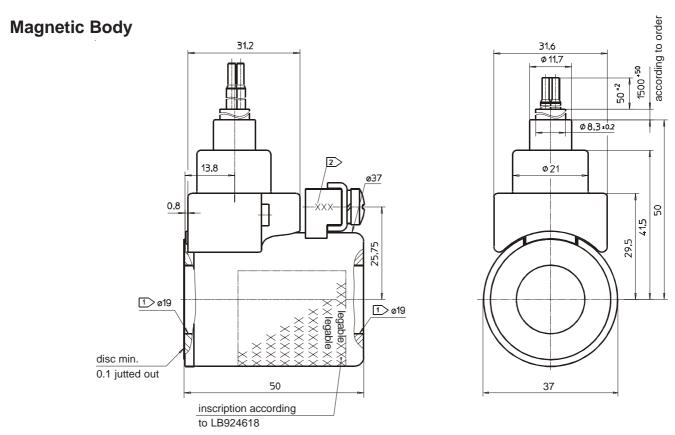


Fig. 4: Coil 924618 (FHMPE037924618)

Tube

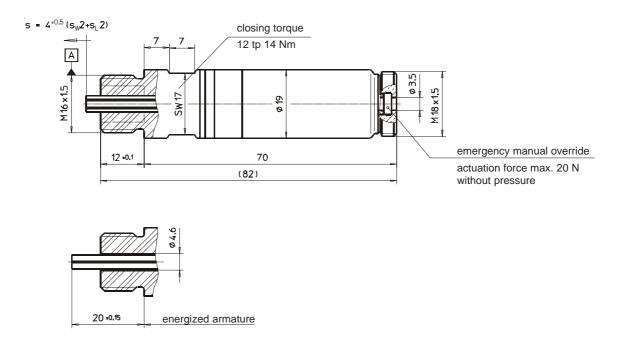


Fig. 5: Tube 923678 (FHTP037923678)



Proportional Solenoid, complete

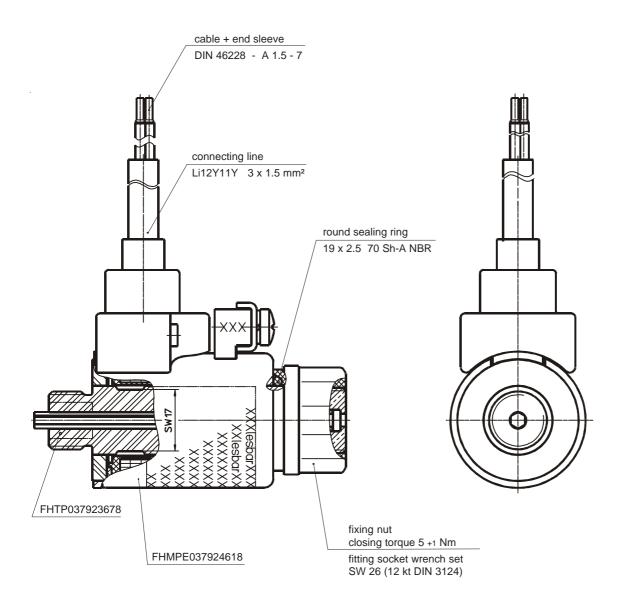
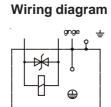
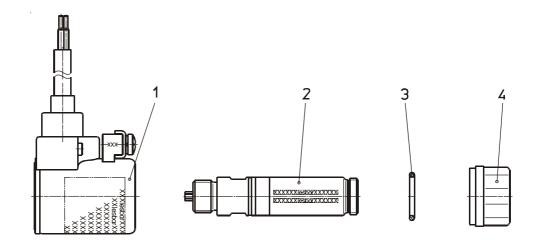


Fig. 6: Proportional Solenoid G RC E 037 AMX A01





Single Components



consecutive number	quantity	description
1	1	magnetic body f. 24 VDC
2	1	tube
3	1	round sealing ring 19 x 2.5 70 Sh-A NBR
4	1	fixing nut

Fixing Nut

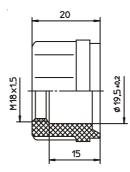
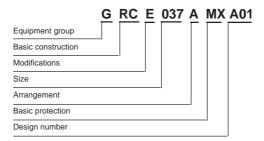




Fig. 7: Fixing Nut 472793
suitable socket wrench SW26 (bihex DIN 3124)
O-Ring to be used: 19 x 2.5 70 Shore A
closing torque 5 *1 Nm



Type code



Order Example

Type G RC E 037 AMX A01

Voltage == 24 V DC
Operating mode S1 (100% ED)

Specials