MAGNETSCHUL



DC Cylindrical Solenoid

Rectifier for AC supply Stroke up to 25mm **Pull and Push versions**

Product group Type R16 x 16 & RP 16 x 16

- Designed and manufactured in accordance with ISO 9001
- Long stroke design
- Pull version with integral clevis end
- Push version with threaded pushrod
- Increasing force characteristic (fig. 2)
- Threaded mounting nose with anti-rotation feature, locknut and shakeproof washer



R16 x 16 & RP16 x 16

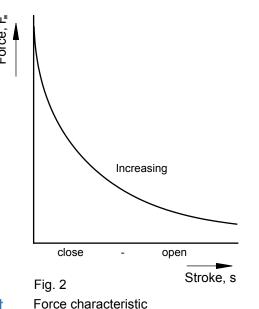
- Coil with unsulation to class B, for voltages up to 250 volts
- Protection classification DIN VDE0470 / EN60529 **IP00** flying leads -
- UL rated materials of construction
- Zinc / nickel plated iron parts
- Suitable for operation in any attitude
- Modifications and special designs on request
- Increased protection solenoid for arduous service on:

Machine tools Office Machines

Motor vehicles Remote control

Automation Medical equipment

Packaging and coin equipment Textile machinery





MAGNET-SCHU

QUALITY SINCE 1912

Performance and dimensional data for type R16 x 16 and RP16 x 16

		R ²	R16 x 16 - Pull			RP16 x 16 - Push		
Duty Rating		Continuous (CD) 100%	Intermittent (ID) 25%	Pulse (PD) 10%	Continuous (CD) 100%	Intermittent (ID) 25%	Pulse (PD) 10%	
Stroke s	(mm)	Magnetic force F _M (N)						
Omm is completion of engerised stroke	0	25.3	35.6	42.3	25.2	39.0	46.4	
	2	6.9	19.2	28.6	5.6	14.2	30.3	
	4	3.8	13.7	23.1	2.7	7.3	21.8	
	8	1.8	8.3	17.0	0.8	2.8	13.3	
	12	1.1	5.6	12.9	0.2	1.8	8.3	
	16	0.76	4.0	10.0				
	20	0.45	2.6	7.4				
	25	0.11	1.2	3.5				
Power Consumption P ₂₅	(Watts)	5.5	38	96	5.5	38	96	
Armature Weight m _A	(g)	43			38			
Solenoid Weight m _M	(g)	161						

TABLE BASIS

24V / Continuous - Intermittent - Pulse duty Mounted on steel plate 152 x 152 x 3mm Horizontal working

Pull arrangement

Ambient temperature 25°C

Free air mounted

Tolerance +/- 10% (inherent and manufacture)

RESIDUAL MAGNETISM

With low force applications, plungers may hold in under residual magnetism when the coil is deenergised. To prevent this, anti-residual springs are available, but the force/stroke characteristic will be modified as a result

DUTY RATING

The proportion of time that the solenoid is energised per operation cycle, shown in %

Proportion (%) =
$$\frac{t \text{ (on)}}{t \text{ (on)} + t \text{ (off)}} x100$$

For each coil type: maximum energised (proportion) time/cycle -Continuous: (100%) Intermittent: (10%) 60 secs Pulse: (5%) 0.1secs

POWER CONSUMPTION (P₂₅)

Listed with 25°C coil temperature (decrease/HOT)

MAGNETIC FORCE (F_M)

Listed in HOT condition at RATED voltage Adjust for armature weight

SUPPLY VOLTAGE

Standard DC: 24V - other voltages on request Rectifier can be provided for AC Supply

Order Example

Type R16 X 16 Voltage 24v DC **Duty rating** Continuous

