



MAGNETSCHULTZ

电磁铁 - 舒尔兹 电磁铁和传感器的专家

SPECIALIST FOR ELECTROMAGNETIC ACTUATORS AND SENSORS



产品系列概览

Programme Survey

品质 自1912
Quality since 1912



Memmingerberg 厂

Allgaeuer Strasse 总厂

2012 / 2013 年度
销售额: 280,000,000.00 欧元-

- 5% 用于研究开发
- 10% 用于资产投资
- 17% 直接出口
- 家族企业

2175 名员工

- 10% 在意大利、瑞士、英国、美国
- 10% 学徒员工
- 50% 专业技能员工, 具有职业技术士认证
- 持续性培训
- 弹性需求工时
- 750 名以上, 服务年资超过 25 年
- 极小的波动, 累积了 Know-How (专业知识和技能)

2012 / 2013
Sales US-\$ 365.000.000.-

- 5% for R & D
- 10% for capital goods
- 17% direct export
- family ownership

2175 Employees

- 10% in Italy, Switzerland, UK, USA
- 10% Apprentices
- 50% workers with certified skills
- Continuous Education
- Order-adaptive Work Schedule
- 750+ employees celebrated 25+ years
- Minimal Fluctuation accumulates Know How

我们多数的顾客关系, 已超过数十年之久

Our Customer Relations extend over Decades!



满足高端工业产品需求的电磁设备

Electromagnetic Actuators and Sensors for High-End Industries

产品系列概览

Survey Product Groups

产品系列 1
高性能直流直动式电磁铁
*Product Group 1
High-Duty DC Solenoids*



产品系列 1
闭锁式电磁铁
*Product Group 1
Shotbolt Lock Units*



产品系列 2
交流直动式电磁铁
*Product Group 2
AC-Solenoids*



产品系列 3
气动阀用电磁铁
*Product Group 3
Valve Solenoids for Pneumatic Application*



产品系列 4
液压用直流开关和比例电磁铁
*Product Group 4
DC On/Off and Proportional
Solenoids for Hydraulic Application*



产品系列 6
旋转式开关电磁铁
*Product Group 6
On/Off Rotary Solenoids*



产品系列 6
旋转式比例电磁铁
*Product Group 6
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交流振动电磁铁
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产品系列 11
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*Product Group 11
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产品系列 13
特殊电磁阀
*Product Group 13
Special Solenoid Valves*



产品系列 1 - 高性能直流直动式电磁铁
Product Group 1 – High-Duty DC Solenoids

G MC X



单向直动电磁铁

- 3 种尺寸: \varnothing (mm) 37、45、63
- 几近水平特性
- 行程 (mm): 8、10、12
- 磁力 (N) 10 - 165

Single-Acting Solenoids

- 3 sizes: \varnothing (mm) 37, 45, 63
- nearly horizontal characteristic
- stroke (mm) 8, 10, 12
- magnetic force (N) 10 up to 165

G TA



单向直动电磁铁

- 3 种尺寸: \varnothing (mm) 20、26、32
- 几近水平特性
- 行程 (mm) 3 - 5
- 磁力 (N) 1.7 - 17.7
- 拉力型或压力型

Single-Acting Solenoids

- 3 sizes: \varnothing (mm) 20, 26, 32
- nearly horizontal characteristic
- stroke (mm) 3 up to 5
- magnetic force (N) 1.7 up to 17.7
- pull or push type

G TC A



单向直动电磁铁

- 7 种尺寸: \varnothing (mm) 40、50、60、70、80、90、100
- 上升特性
- 行程 (mm) 8 - 30
- 磁力 (N) 6 - 470
- 有水平特性, 可订制

Single-Acting Solenoids

- 7 sizes: \varnothing (mm) 40, 50, 60, 70, 80, 90, 100
- increasing characteristic
- stroke (mm) 8 up to 30
- magnetic force (N) 6 up to 470
- horizontal characteristic on request

G TU W



双向直动电磁铁

- 6 种尺寸: \varnothing (mm) 40、50、60、70、80、90
- 几近水平特性
- 行程 (mm) 8 - 25
- 磁力 (N) 12.4 - 276
- 有复位双向直动电磁铁, 可订制

Reverse Solenoids

- 6 sizes: \varnothing (mm) 40, 50, 60, 70, 80, 90
- nearly horizontal characteristic
- stroke (mm) 8 up to 25
- magnetic force (N) 12.4 up to 276
- Double-acting solenoids on request

G FC



单向直动电磁铁

- 6 种尺寸: \varnothing (mm) 25、30、35、40、50、60
- 近乎水平特性
- 行程 (mm) 4 - 12
- 磁力 (N) 2.7 - 125
- 拉力型或压力型
- 插槽式连接

Single-Acting Solenoids

- 6 sizes: width (mm) 25, 30, 35, 40, 50, 60
- nearly horizontal characteristic
- stroke (mm) 4 up to 12
- magnetic force (N) 2.7 up to 125
- pull or push type
- spade connector

G TC E



单向直动电磁铁

- 防爆设计符合 ATEX95 标准
- 封装等级 II 2G Ex e mb II T4... T5
- 其它防爆类型, 可订制
- 上升特性
- 行程 (mm) 8 - 35
- 磁力 (N) 6 - 90
- 带或不带法兰安装
- 拉力型或压力型

Single-Acting Solenoids

- in explosion-proof design according to ATEX 95
- encapsulation II 2G Ex e mb II T4... T5
- further protection types on request
- increasing characteristic
- stroke (mm) 8 up to 35
- magnetic force (N) 6 up to 90
- with or without fastening flange
- pull or push type



产品系列 1 – 闩锁式电磁铁 Product Group 1 – Shotbolt Lock Units

闩锁式电磁铁

- 2 种尺寸: \varnothing (mm) 37、45
- 行程 (mm) 8、10
- 拉力型或压力型
- 其它尺寸, 可订制

Shotbolt Lock Units

- 2 sizes: \varnothing (mm) 37, 45
- stroke (mm) 8, 10
- pull or push type
- other sizes on request

G SC X



闩锁式电磁铁

- 1 种尺寸: 宽度 (mm) 17
- 行程 (mm) 2.5
- 拉力型或压力型
- 带或不带末端缓冲设计

Shotbolt Lock Units

- 1 size: width (mm) 17
- stroke (mm) 2.5
- pull or push type
- design with or without impact damping in the stop positions

G HU Z 017



闩锁式电磁铁

- 2 种尺寸: \varnothing (mm) 32、40
- 行程 (mm) 6 - 8
- 拉力型或压力型
- 带或不带开关讯号

Shotbolt Lock Units

- 2 sizes: \varnothing (mm) 32, 40
- stroke (mm) 6 up to 8
- pull or push type
- signal switch optional

G HU Z 032
G HU Z 040



闩锁式电磁铁

- 1 种尺寸: \varnothing (mm) 50
- 行程 (mm) 10
- 拉力型或压力型
- 带或不带开关讯号

Shotbolt Lock Units

- 1 size: \varnothing (mm) 50
- stroke (mm) 10
- pull or push type
- signal switch optional

G HU Z 050



产品系列 2 – 交流直动电磁铁 Product Group 2 – AC Solenoids

直动电磁铁

- 5 种尺寸:
 \varnothing (mm) 6、10、30、50、70
- 行程 (mm) 20 - 45
- 磁力 (N) 2.4 - 86
- 拉力型或压力型
- 尺寸050以内的安装, 采通用式固定架
- 尺寸070以上的安装, 有3种不同选项
- 尺寸006-050可选插槽式连接器

Single-Acting Solenoids

- 5 sizes: 6, 10, 30, 50, 70
- stroke (mm) 20 up to 45
- magnetic force (N) 2.4 up to 86
- pull or push type
- with universal mounting up to size 050
- from size 070 with three different mounting possibilities
- terminal block, alternatively spade connectors for sizes 006 to 050

W BA



应用上有特殊需要, 请向我们咨询解决方案
Please ask us for application oriented custom design.

产品系列 10 - 微型电磁铁

Product Group 10 - Miniature Solenoids

G HU Z 007



微型门锁式电磁铁

- 1 种尺寸: \varnothing (mm) 7
- 行程 (mm) 1
- 磁力(N) 0.13
- 内置复位弹簧

Miniature Shotbolt Lock Units

- 1 size: \varnothing (mm) 7
- stroke (mm) 1
- magnetic force (N) 0.13
- built-in return spring

G DP R 012



直流旋转电磁铁

- 1 种尺寸: \varnothing (mm) 12
- 旋转角度: 45°
- 扭矩 (Nmm) 0.5 - 1.58
带或不带自校准扭力
- 上升特性

DC Rotary Solenoids

- 1 size: \varnothing (mm) 12
- rotation angle 45°
- torque (Nmm) 0.5 to 1.58
with/without self-aligning torque
- increasing characteristic

M GB P 010



极化直流单向直动电磁铁

- 2 种尺寸: 宽度 (mm) 10、19
- 行程 (mm) 2.5、5
- 脉冲运行
- 双稳态功能
- 二个去激励电极位置

Single-Acting Polarized DC Solenoids

- 2 sizes: width (mm) 10, 19
- stroke (mm) 2.5, 5
- pulse operation
- bistable function
- two de-energized armature positions

G BK K/G BK P 017



致动电磁铁

极化致动电磁铁

- 1 种尺寸: 宽 (mm) 17
- 磁力(N) 1 - 2.1
- 拉力型或压力型
- 内置复位弹簧

Actuating Solenoids

Polarized Actuating Solenoids

- 1 size: width (mm) 17
- magnetic force (N) 1 up to 2.1
- pull or push type
- built-in return spring

产品系列 3 - 气动阀用电磁铁

Product Group 3 - Valve Solenoids for Pneumatic Application

V PK M 007



微型电磁阀

- 电枢工作空间静态耐压力最大
4 Mpa (=580 psi)
- 直流电
- 尺寸: (mm) 7
- 功能: 2/2 NC、2/2 NO
- 公称宽度 (mm) NC: 0.4 NO: 0.55
- 压力范围: 0.2 - 0.8 Mpa
- 标准额定流量 (l/Min)
NC: ≥ 7 ; NO: ≥ 3.5

Miniature Solenoid Valves

- pressure-proof armature space up to max. 4 Mpa (= 580 psi-static)
- for DC
- size: \varnothing (mm) 7
- function: 2/2 NC, 2/2 NO
- nominal width (mm) NC: 0.4; NO: 0.55
- pressure range: 0.2 - 0.8 Mpa
- nominal flow (l/min) NC: ≥ 7 ; NO: ≥ 3.5

G BK R 010 / X BK R 015



阀用电磁铁

- 电枢工作空间静态耐压力最大
2 Mpa (=290 psi)
- 直流电
- 2 种尺寸: 宽度(mm) 10、15
- 行程 (mm): 0.25 和 0.4
- 磁力 (N): 0.6 - 2.1
- 以阀底作为引导阀

Valve Solenoids

- armature space pressure-proof up to max. 2 Mpa (= 290 psi static)
- for DC
- 2 sizes: width (mm) 10, 15
- stroke (mm) 0.25 and 0.4
- magnetic force (N) 0.6 up to 2.1
with valve part used as a pilot valve

产品系列 3 – 气动阀用电磁铁

Product Group 3 – Valve Solenoids for Pneumatic Application

阀用电磁铁

- 电枢工作空间静态耐压力最大 5 Mpa (=725 psi)
- 直流电或交流电
- 3 种尺寸:宽度 (mm) 17、22、32
- 在公称宽度 2.5 mm 时, 可调式压力可达 0.75 Mpa (109 psi)
- 尺寸020 和 032 通过中心螺纹安装
- 尺寸017 通过法兰安装

Valve Solenoids

- *pressure-proof armature space up to max. 5 Mpa (= 725 psi-static)*
- *for DC or AC*
- *3 sizes: width (mm) 17, 22, 32*
- *switchable pressure up to 0.75 Mpa (109 psi) at nominal width 2.5 mm*
- *via centre thread mounting: sizes 022 and 032*
- *flange mounting: size 017*

X BR / X BR1. 辅件 / X BR017



阀用电磁铁

- 电枢工作空间静态耐压力最大 5 Mpa (=725 psi)
- 直流电或交流电
- 也适用于干式运行
- 2 种尺寸:宽度 (mm) 22、32 可调式压力可达 1 Mpa (145 psi)
- 通过 4 个螺钉安装
- 低功率

Valve Solenoids

- *pressure-proof armature space up to max. 5 Mpa (= 725 psi-static)*
- *for DC or AC*
- *also suitable for dry operation*
- *2 sizes: width (mm) 22, 32*
- *switchable pressure up to 1 Mpa (145 psi) at nominal width 2 mm*
- *fastening with 4 screws*
- *low power execution*

X BK



阀用电磁铁

- 防爆设计符合 ATEX95 标准
- 封装等级 II 2G Ex mb II T5
- 其它防爆类型, 可订制
- 电枢工作空间静态耐压力最大 5 Mpa (=725 psi)
- 直流电或交流电
- 尺寸:宽度 (mm) 22
- 在公称宽度 2.55 mm 时, 可调式压力可达 1.3 Mpa (189 psi)
- 通过中心螺纹或法兰安装

Valve Solenoids in explosion-proof design according to ATEX 95

- *encapsulation II 2G Ex mb II T5*
- *further protection types on request*
- *pressure-proof armature space up to max. 5 Mpa (= 725 psi-static)*
- *for DC and AC*
- *size: width (mm) 22*
- *switchable pressure up to 1.3 Mpa (189 psi) at nominal width 2.5 mm*
- *fastening with central thread or flange*

G BR E 2. 辅件



气用比例电磁铁

- 电枢工作空间静态耐压力最大 0.3 Mpa (=43.5 psi)
- 也适用于干式运行
- 尺寸: (mm) 35
- 带或不带位移传感器
- 磁力与电流成比例特性
- 滞环很小
- 可扩大成完整控制回路
- 行程 (mm) 2.1
- 额定磁力 (N) 58

Proportional Solenoids for Pneumatic Application

- *armature space pressure-proof up to max. 0.3 Mpa (= 43.5 psi-static)*
- *also suitable for dry operation*
- *size: (mm) 35*
- *without and with stroke transducer*
- *proportional force vs current characteristic*
- *very small hysteresis*
- *extendable to a complete closed loop control circuit*
- *stroke (mm) 2.1*
- *rated magnetic force (N) 58*

G RF 035...B02



产品系列 4 - 液压用开关和比例电磁铁

Product Group 4 - On/off and Proportional Solenoids for Hydraulic Application

G HP (开/关) /
G RC (比例)



液压用直流开关和比例电磁铁

- 4 种尺寸: \varnothing (mm) 37、42、45、63
- 电枢工作空间静态耐压力最大 32 Mpa (=4640 psi)
- 行程 (mm) 5.5 - 9
- 工作行程时的磁力 (N) 43 - 120
- 通过中心螺纹安装
有拉力型, 可订制

DC On/Off and Proportional Solenoids for Hydraulic Application

- 4 sizes: \varnothing (mm) 37, 42, 45, 63,
- pressure-proof armature space up to max. 32 Mpa (= 4640 psi-static)
- stroke (mm) 5.5 up to 9
- magnetic force (N) 43 up to 120 (at working stroke)
- fastening with central thread pulling design on request

G HP E (开/关) /
G RC E (比例)



液压用直流开关和比例电磁铁
防爆设计符合 ATEX95 标准

- 防爆等级 II 2G Ex mb II T4
- 也经认可为防尘
- 尺寸: \varnothing (mm) 37
- 电枢工作空间静态耐压力最大 32 Mpa (=4640 psi)
- 行程 (mm) 4
- 磁力 (N) 5 - 75

DC On/Off and Proportional Solenoids for Hydraulic Applications

- in explosion-proof design according to ATEX 95*
- explosion protection II 2G Ex mb II T4
 - approval also for dust protection
 - size: \varnothing (mm) 37
 - pressure-proof armature space (up to 32 Mpa = 4640 psi-static)
 - stroke (mm) 4
 - magnetic force (N) 5 up to 75

G RF 025...B01 / G RF...B01
G RF...B61, B62 / G RE E
G RC Y + WA
G AA / G AA 辅件



液压用直流开关和比例电磁铁,
带或不带位移传感器

- 电枢工作空间静态耐压力最大 35 Mpa (=5075 psi)
 - 4 种尺寸: \square (mm) 25、35、45、60
 - 带或不带位移传感器
 - 力/电流成比例特性
 - 滞后很小
 - 可扩大成完整控制回路
 - 行程 (mm) 2.5 - 8
 - 磁力 (N) 19 - 145 (额定磁力)
 - 最大运行压力 17.5 Mpa (2538 psi)
- 有防爆类型, 可订制

DC On/Off and Proportional Solenoids for Hydraulic Application

- armature space pressure-proof up to max. 35 Mpa (= 5075 psi-static)
 - 4 sizes: \square (mm) 25, 35, 45, 60
 - without and with stroke transducer
 - proportional force vs current characteristic
 - very small hysteresis
 - extendable to a complete closed loop control circuit
 - stroke (mm) 2.5 up to 8
 - magnetic force (N) 19 up to 145 (rated magnetic force)
 - operating pressure max. 17.5 Mpa (2538 psi)
- explosion-proof types on request*

G RC...A62



液压用直流比例电磁铁, 带位移传感器

- 3 种尺寸: \varnothing (mm) 37、45、62
- 电枢工作空间静态耐压压力最大达 32 Mpa (=4640 psi)
- 行程 (mm) 5.5 - 9
- 磁力 (N) 43 - 120
- 通过中心螺纹安装
- 可扩大成完整控制回路

DC Proportional Solenoids for Hydraulic Application

- 3 sizes: \varnothing (mm) 37, 45, 62
- pressure-proof armature space up to max. 32 Mpa (= 4640 psi-static)
- stroke (mm) 5.5 up to 9
- magnetic force (N) 43 up to 120
- fastening with central thread
- extendable to a complete closed loop control circuit



产品系列 11 – 传感器和电子组件 Product Group 11 – Sensors and Electronic

电感式位移传感器

- 5 种尺寸
- 行程 (mm) ± 4 、 ± 8 、 ± 15 、 ± 20 、 ± 25
- 适用于湿式和干式运行
- 静态耐压力最大达 35 Mpa (=5070 psi)
- 带或不带集成模块/频率振荡器

Linear Stroke Transducers

- 5 sizes
- stroke (mm) ± 4 , ± 8 , ± 15 , ± 20 , ± 25
- for wet and dry operation
- pressure-proof up to max. 35 Mpa (= 5070 psi static)
- with or without integrated demodulation stage/carrier frequency oscillator

A WE F / A WE X / A WA F
A WA X / A WU X / A WX X



电子控制组件

- 请咨询
- 可索取我们最新的‘传感器和电子装置’小册

Electronic Controls

- on request
- Please ask for our latest brochure “sensors and electronic”!



PREFAG 测量驱动器

- 动衔铁式
- 动圈式

PREFAG Metering Drives

- moving iron movements
- moving coil movements

Prefag



精密车削件和精密机械

- 用于精密机械和液压组件

Precision Turned Parts and Fine Mechanics

- for fine mechanical and fluid components

产品系列 6 – 旋转式开关和比例电磁铁 Product Group 6 – On/Off and Proportional Rotary Solenoids

直流旋转电磁铁

- 6 种尺寸: \varnothing (mm) 25、35、50、60、75、100
- 旋转角度: 35°、65°、95°
- 扭矩 (Ncm) 0.065 - 195
- 以两侧均有伸出轴的设计, 可选顺时针或逆时针旋转
- 带或不带复位弹簧

DC Rotary Solenoids

- 6 sizes: \varnothing (mm) 25, 35, 50, 60, 75, 100
- rotation angle 35°, 65°, 95°
- torque (Ncm) 0.065 up to 195
- design clockwise or anti-clockwise ends lead-out on both sides
- with and without return spring

G DA / G DA 025



直流旋转电磁铁

- 4 种尺寸: \square (mm) 35、50、75、100
- 旋转角度达 95°
- 扭矩 (Ncm) 0.38 - 114
- 以两侧均有伸出轴的设计, 可选顺时针或逆时针旋转
- 带或不带复位弹簧

DC Rotary Solenoids

- 4 sizes: \square (mm) 35, 50, 75, 100
- rotation angle up to 95°
- torque (Ncm) 0.38 up to 114
- design clockwise or anti-clockwise ends lead-out on both sides
- with and without return spring

G DC



比例旋转电磁铁

- 3 种尺寸: \varnothing (mm) 35、50、75、
- 旋转角度达 110°
- 扭矩 (Ncm) 2.1 - 85
- 扭矩/转角成水平特性
- 扭矩和电流成比例关系
- 带或不带转角位移传感器

Proportional Rotary Solenoids

- 3 sizes: \varnothing (mm) 35, 50, 75
- rotation angles up to 110°
- torque (Ncm) 2.1 up to 85
- horizontal torque vs rotation angle characteristic
- proportional relation between torque and current
- without and with rotation angle position sensor

G DR



Please ask us for application oriented custom design.

产品系列 9 – 吸持电磁铁

Product Group 9 – Holding Magnets

G MH / G ZZ



直流吸持电磁铁

- 8 种尺寸: Ø (mm)
20、25、30、40、50、65、80、100
- 持力 (N): 60 - 3000
- 带或不带电枢 G ZZ

DC Holding Magnets

- 8 sizes: Ø (mm)
20, 25, 30, 40, 50, 65, 80, 100
- holding force (N) 60 up to 3000
- optional armature G ZZ

G MP / G MP B01



永久吸持电磁铁

- 4 种尺寸: Ø (mm) 25、30、35、50
- 持力 (N): 120 - 800

Permanent Holding Magnets

- 4 sizes: Ø (mm) 25, 30, 35, 50
- holding force (N) 120 up to 800

表列标准产品和客制化的特殊研发产品都符合最高品质要求



比例式电磁阀

V PR M 016
用于气动装置的调节作业

Proportional Solenoid Valve

V PR M 016
Control tasks in pneumatic



永久吸持电磁铁

G MP H 030
用于纺织机械

Permanent Holding Magnet

G MP H 030
for textile machinery



开关电磁铁 G AL Y 020

柴油引擎机共轨式喷射装置的致动器

ON/OFF Solenoid G AL Y 020

Actuators for Common-Rail Injectors
at Diesel Engines



控制电磁铁 G CA X 027

用于商用航空器内电液阀门的控制

Solenoid G CA X 027

Control of hydraulic valves in
commercial aircrafts



电磁阀 VR 030

用于车辆自动变速器的控制

Solenoid Valve VR 030

Control of automatic transmissions
in passenger cars



产品系列 7 – 交流振动电磁铁 Product Group 7 – AC Vibrators

振动电磁铁

- 7 种尺寸: Ø (mm) 10、40、60、80、90、120、130
- 直接连接交流电源或透过半波整流器
- 耗电量: 15 - 2060 VA
- 额定气隙 (mm): 1 - 3
- 尖峰磁力(N): 13.7 - 2740
- 封装设计, 可选

Vibrators

- 7 sizes: 10, 40, 60, 80, 90, 120, 130
- for direct connection to the AC network... or via one-way rectifier
- power consumption from 15 up to 2060 VA
- nominal air gap (mm) 1 up to 3
- peak force (N) 13.7 up to 2740
- encapsulated design optional

W ZA / Y ZA / Y ZU



产品系列 13 – 特殊电磁阀 Product Group 13 – Special Solenoid Valves

特殊电磁阀

- 应用上有特殊需要, 请向我们咨询解决方案 我们期待您的咨询

Special Solenoid Valves

- Please ask us for application-oriented custom designs! We look forward to your inquiry!



Standard Devices and Custom Design meet the highest Requirements

阀用电磁铁 G BZ A 038
双结构设计, 用于商用车辆

Valve Solenoid G BZ A 038
Twin design for commercial vehicles



LVDT 传感器
(LVDT: 线性可变差动变压器)
A WA X
用于润滑油泵的流量调节

LVDT sensors
A WA X
Flow control of lube oil pumps



高性能直动电磁铁 G TA F 020
用于纺织机械

High-Duty Solenoid G TA F 020
for textile machinery



单向直动电磁铁 G TC E 050
依 ATEX 防爆标准设计

Single-Acting Solenoid G TC E 050
in explosion-proof design according to ATEX



直流液压电磁铁 G AA Y
用于深海液压控制模块

DC Hydraulic Solenoids G AA Y
Hydraulic control blocks for deep sea applications



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