

### Standardtype

Ventil in Ruhestellung geschlossen-(NC). Bei erregtem Magnet baut sich die Druckdifferenz von der Sekundärseite des Kolbens über die Servobohrung ab. Die wirksame Druckdifferenz hebt den Kolben vom Ventilsitz ab. Der angegebene Mindestdruck muß als Druckdifferenz immer vorhanden sein.

### Standrad type

Valve non-energised closed by spring power - NC. When energised, the pressure decomposes on the secondary side of the piston. Then the pressure differential ( $\Delta p$ ) lifts the piston from the seat (orifice). A pressure differential ( $\Delta p$ ) is necessary for accurate operation.



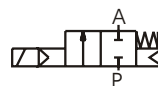
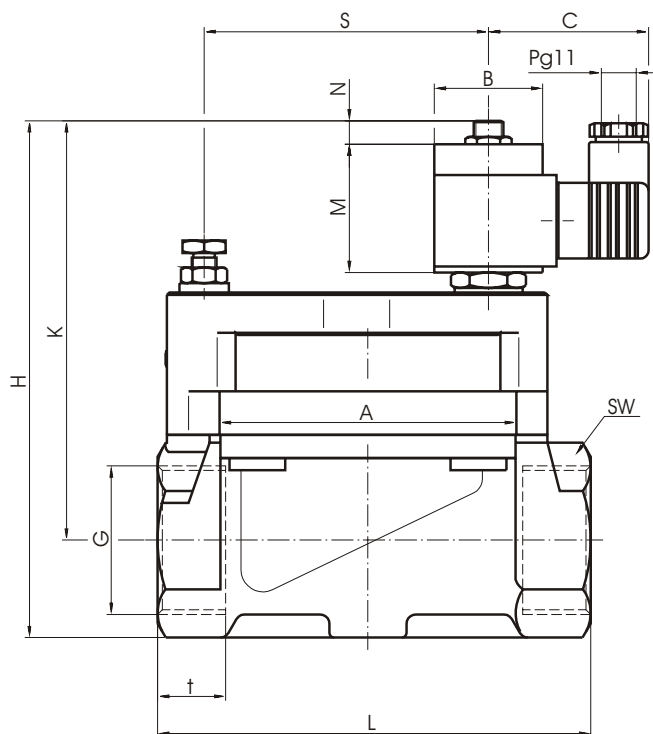
|                                              |                                                                                        |                                          |                                                                                     |
|----------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| Steuerungsart:<br>Type of control:           | servogesteuert<br>pilot operated                                                       | Dichtung:<br>seal:                       | NBR<br>NBR                                                                          |
| Konstruktion:<br>construction:               | Kolbensitzventil<br>piston design                                                      | Einbaulage:<br>installation:             | beliebig<br>in any position                                                         |
| Anschluß:<br>connection:                     | G1/4-G2, DIN ISO 228<br>G1/4-G2, DIN ISO 228                                           | Anschlußspannung:<br>supply voltage:     | AC: 24,42,110,230V 50/60Hz<br>DC: 24,110,205V=                                      |
| Druck:<br>pressure:                          | 1-40 bar (s. Tabelle)<br>1-40 bar (see table)                                          | Spannungstoleranz:<br>voltage tolerance: | +5% / -10%<br>+5% / -10%                                                            |
| Durchflußmedium:<br>medium:                  | neutrale, gasförmige u. flüssige Medien<br>neutral, gaseous and liquid medium          | Leistungsaufnahme:<br>power-consumption: | 1012=18,5 Watt 0012=43/24 VA<br>1702=25 Watt 3702=25 Watt<br>1148=10 Watt 0148=9 VA |
| Viskosität:<br>viscosity:                    | 22mm <sup>2</sup> /s<br>22mm <sup>2</sup> /s                                           | Schutzart:<br>enclosure standard:        | IP65 nach DIN 40050<br>Ip65 according to DIN 40050                                  |
| Mediumtemperatur:<br>medium temperature:     | -10 bis +80°C<br>-10 up to +80°C                                                       | Einschaltdauer:<br>operating factor:     | 100% ED-VDE 0580<br>100% ED-VDE 0580                                                |
| Umgebungstemperatur:<br>ambient temperature: | +35°C<br>+35°C                                                                         | Kabelanschluß:<br>electric connection:   | Gerätestecker DIN 43650<br>DIN 43650 - plug                                         |
| Ventilgehäuse:<br>Body material:             | ../10../.. = Messing / brass<br>../08../.. = Edelstahl 1.4581 / st. steel (AISI 316Ti) |                                          |                                                                                     |
| metall. Innenteile:<br>metallic internals:   | Messing und Edelstahl 1.4104<br>brass and stainless steel (AISI 430F)                  |                                          |                                                                                     |

| G                                               | Sitz<br>orifice<br>Ømm | Kv-Wert<br>flow-rate<br>m <sup>3</sup> /h | Standardtype<br>standard-type | max. Druck bei Magnettype<br>max. pressure reagrding solenoid type<br>Ex II 2G EEx m II T4 |         |      |
|-------------------------------------------------|------------------------|-------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|---------|------|
|                                                 |                        |                                           |                               | .012                                                                                       | .692-NO | .148 |
| 1/4                                             | 13                     | 1,8                                       | A5021/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 3/8                                             | 13                     | 4,0                                       | A5022/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 1/2                                             | 13                     | 4,5                                       | A5023/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 3/4                                             | 25                     | 11,5                                      | A5024/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 1                                               | 25                     | 13,0                                      | A5025/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 5/4                                             | 40                     | 29,0                                      | B5026/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 6/4                                             | 40                     | 33,0                                      | B5027/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 2                                               | 50                     | 49,0                                      | B5028/1001/....               | 1-40                                                                                       | 1-40    | 1-25 |
| Edelstahl 1.4581 / stainless steel (AISI 316Ti) |                        |                                           |                               |                                                                                            |         |      |
| 1/4                                             | 13                     | 1,8                                       | E5021/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 3/8                                             | 13                     | 4,0                                       | E5022/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 1/2                                             | 13                     | 4,5                                       | E5023/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 3/4                                             | 25                     | 11,5                                      | E5024/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 1                                               | 25                     | 13,0                                      | E5025/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 5/4                                             | 40                     | 29,0                                      | B5026/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 6/4                                             | 40                     | 33,0                                      | B5027/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |
| 2                                               | 50                     | 49,0                                      | B5028/0801/....               | 1-40                                                                                       | 1-40    | 1-25 |

Stand/State: 06/2004  
GSR-MK-JM-DB50

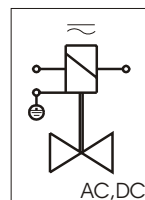
Irrtum und Änderungen vorbehalten - No responsibility is accepted for the accuracy of this information!

Maßzeichnung Standardausführung  
dimensional drawing of standard type

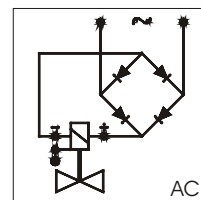


Schaltfunktion/function:  
in Ruhestellung gesperrt - NC.  
normally closed - NC.

Anschlußplan / connection diagram



Für Wechsel- und  
Gleichspannung.  
For AC and DC.



Mit vorgeschaltetem Gleichrichter  
für Wechselspannung.  
With rectifier for AC connection

Erdung oder Schutzschaltung nach Vorschrift des zuständigen EVU.  
Grounding or earthing of the protective circuit in accordance with  
regulations of the responsible electric supply company.

Absicherung entsprechend der Stromaufnahme vorsehen.  
Appropriate protection according to the power-consumption.

| Magn.<br>solen. | .012/ .148 |       |       |       |       |       |       |       | .692-NO |       |       |       |       |       |       |       |
|-----------------|------------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|
| Type            | 5021       | 5022  | 5023  | 5024  | 5025  | 5026  | 5027  | 5028  | 5021    | 5022  | 5023  | 5024  | 5025  | 5026  | 5027  | 5028  |
| G               | 1/4        | 3/8   | 1/2   | 3/4   | 1     | 5/4   | 6/4   | 2     | 1/4     | 3/8   | 1/2   | 3/4   | 1     | 5/4   | 6/4   | 2     |
| A               | 50         | 50    | 50    | 70    | 70    | 96    | 96    | 112   | 50      | 50    | 50    | 70    | 70    | 96    | 996   | 112   |
| B               | 35/32      | 35/32 | 35/32 | 35/32 | 35/32 | 35/32 | 35/32 | 35/32 | 35/35   | 35/35 | 35/35 | 35/35 | 35/35 | 35/35 | 35/35 | 35/35 |
| C               | 58         | 58    | 58    | 58    | 58    | 58    | 58    | 58    | 66      | 66    | 66    | 66    | 66    | 66    | 66    | 66    |
| H               | 130        | 130   | 130   | 149   | 149   | 172   | 172   | 184   | 145     | 145   | 145   | 164   | 164   | 187   | 187   | 199   |
| K               | 115        | 115   | 115   | 125   | 125   | 140   | 140   | 145   | 130     | 130   | 130   | 140   | 140   | 155   | 155   | 155   |
| L               | 67         | 67    | 67    | 95    | 95    | 140   | 140   | 168   | 67      | 67    | 67    | 95    | 95    | 140   | 140   | 168   |
| M               | 40         | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 50      | 50    | 50    | 50    | 50    | 50    | 50    | 50    |
| N               | 10         | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10      | 10    | 10    | 10    | 10    | 10    | 10    | 10    |
| Pg              | 11         | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11      | 11    | 11    | 11    | 11    | 11    | 11    | 11    |
| SW              | 27         | 27    | 27    | 41    | 41    | 58    | 58    | 70    | 27      | 27    | 27    | 41    | 41    | 58    | 58    | 70    |
| t               | 12         | 12    | 12    | 16    | 16    | 22    | 22    | 25    | 12      | 12    | 12    | 16    | 16    | 22    | 22    | 25    |
| kg              | 1,4        | 1,4   | 1,4   | 2,8   | 2,8   | 3,7   | 3,7   | 5,2   | 1,6     | 1,6   | 1,6   | 3,0   | 3,0   | 3,9   | 3,9   | 5,4   |

Alle Angaben sind freibleibend und unverbindlich / all technical specifications are without obligation!

Weitere Ventilausführungen

/

optional extras

Dichtung= FKM, EPDM, PTFE  
seal= FKM, EPDM, PTFE

Handbetätigung= HA  
manual override= HA

andere Durchflußmedien und Viskositäten  
varying medium and viscosity ranges

regulierbare Schließdämpfung (ab G5/4 serienmäßig)= SR  
variable close muting (from G5/4 standard)= SR

abweichende Temperaturen und Drücke  
varying temperature and pressure ranges

Öl- und fettfrei= OF  
free of oil and grease= OF ( for oxygen applications)

Ventilgehäuse= Edelstahl 1.4581  
body material= stainless steel (AISI 316Ti)

buntmetallfrei= BF  
free of brass and bronze= BF

Stellungsanzeiger (Endschalter ab G3/4)= EH  
position indicator (reed contact from G3/4)= EH

Temperaturausführung bis +200°C= TH  
design for high temperature up to +200°C= TH

Ex-Schutz= Ex II 2G EEx md II cT4  
explosion proof= Ex II 2G EEx md II cT6

Grundmengeneinstellung= GM  
base of volume adjustable= GM

Temperaturausführung bis +130°C= TM  
design for high temperature up to +130°C= TM

abgedichteter Ankerraum= AA  
sealed plunger= AA

Ex-Schutz Ex II 2G EEx m II T4 von 1-40 bar mit Magnet / .328  
Explosion proof Ex II 2G EEx m II T4 from 1-40 bar with solenoid / .328

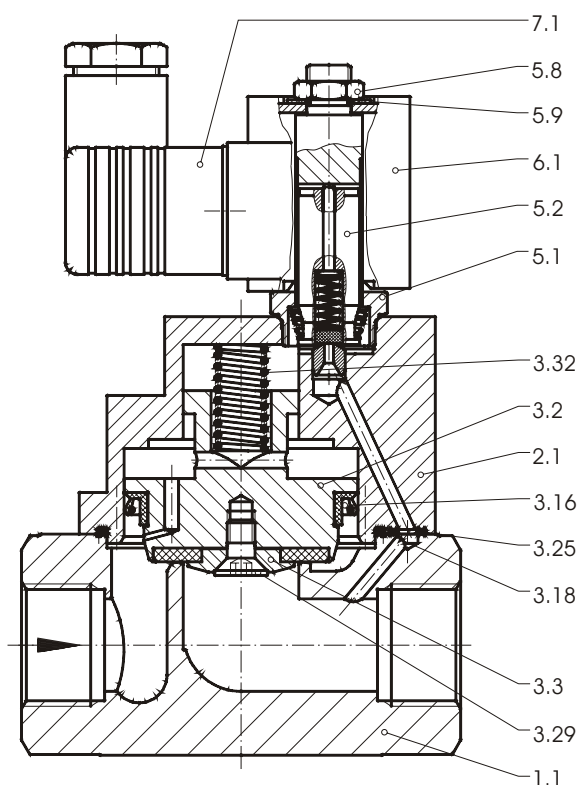
stromlos geöffnet, Kompressorentlastungsventil = NP  
non energised open, compressor relief valve = NP

- K1.1 Armatur / valve body
- K2.1 Deckel / bonnet
- \*K3.2 Ventilkolben / piston
- \*K3.3 Scheibe / disk
- \*K3.7 Führungsschraube / guide screw
- K3.13 Dämpfungsschraube / damping screw
- K3.14 Scheibe / disk
- \*K3.16 Nutring / u-cup seal
- \*K3.18 O-Ring / o-ring
- \*K3.23 O-Ring / o-ring
- \*K3.24 O-Ring / o-ring
- \*K3.25 O-Ring / o-ring
- K3.28 6-kt. Mutter / hexagon nut
- \*K3.29 Senkschraube / screw
- K3.31 Gewindestift / grub screw
- \*K3.32 Feder / spring
- K5.1 Magnethülse / solenoid tube
- K5.2 Magnetanker / solenoid plunger
- K5.8 6-kt. Mutter / hexagon nut
- K5.9 Federscheibe / disk
- K5.10 Ankerfeder / spring
- K6.1 Magnetspule / solenoid
- K7.1 Stecker o. Klemmkasten / plug or terminal box

\* = Bestandteil des Ersatzteilkäppchens

(je nach Ausführung freibleibend)

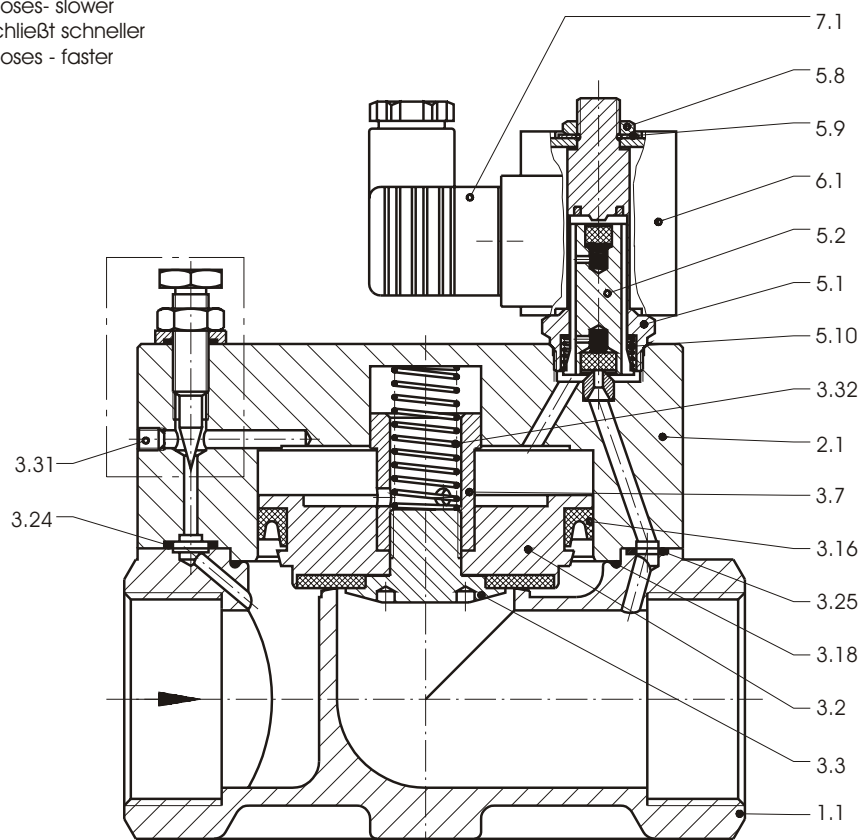
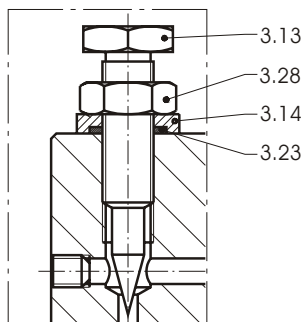
\* = all components of spare parts and service sets are variable in reference to different versions and executions. (These specifications are without obligation).



Regulierbare Schließdämpfung - SR (von G5/4-G2 serienmäßig)  
variable close muting - SR (from G5/4-G2 standard)

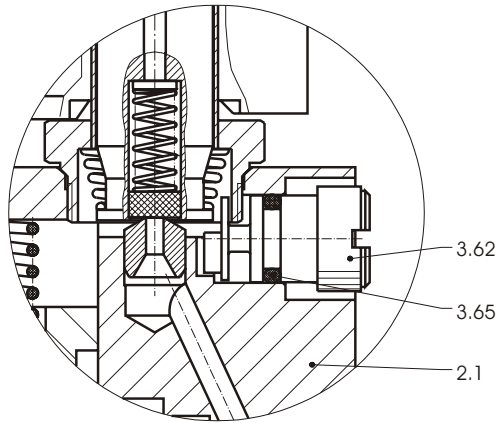
Baureihe / type B5026-B5028

Schraube nach rechts drehen : Ventil schließt langsamer  
screw to the right site : valve closes- slower  
Schraube nach links drehen : Ventil schließt schneller  
screw to the left site : valve closes - faster



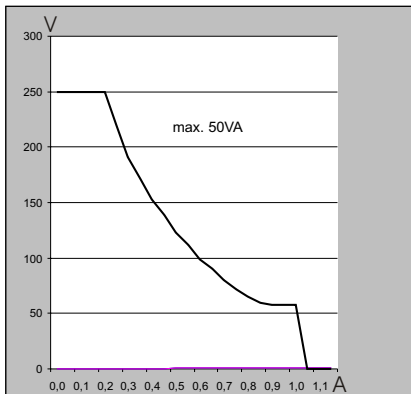
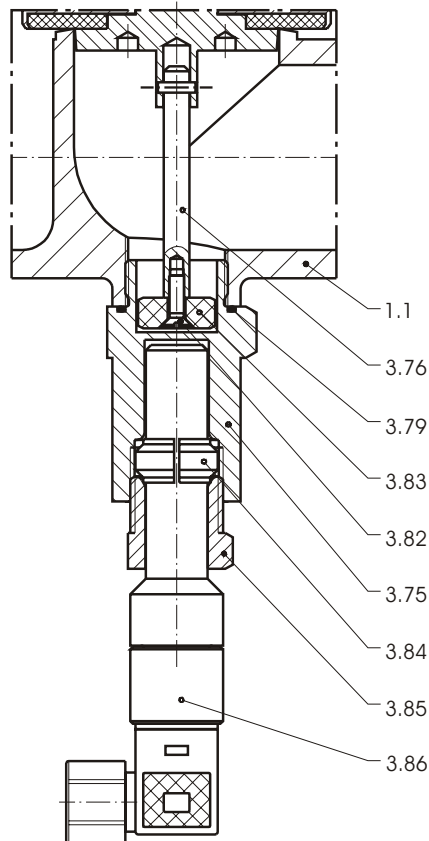
Handbetätigung - HA bei Magnet .012/.148  
manual override - HA for solenoid .012/.148

- K2.1 Deckel / bonnet
- K3.62 Handbetätigung / manual override
- K3.65 O-Ring / o-ring



Stellungsanzeiger - EH (ab G3/4)  
position indicator - EH (from G3/4)

- K3.75 Zwischenverschraubung / screw joint
- K3.76 Spindel / stem
- K3.79 O-Ring / o-ring
- K3.82 Senkschraube / screw
- K3.83 Permanentmagnet / permanent magnet
- K3.84 Klemmring / clamp ring
- K3.85 Verschraubung / screw joint
- K3.86 Endschalter / position indicator



Schaltleistungsdiagramm  
breaking capacity-graph

Anschlußplan  
connection plan

Endschalter / position indicator

