

Baureihe 50 - Type 50
2/2 - Wege Magnetventil
2/2 - Way solenoid valve

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

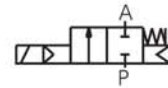
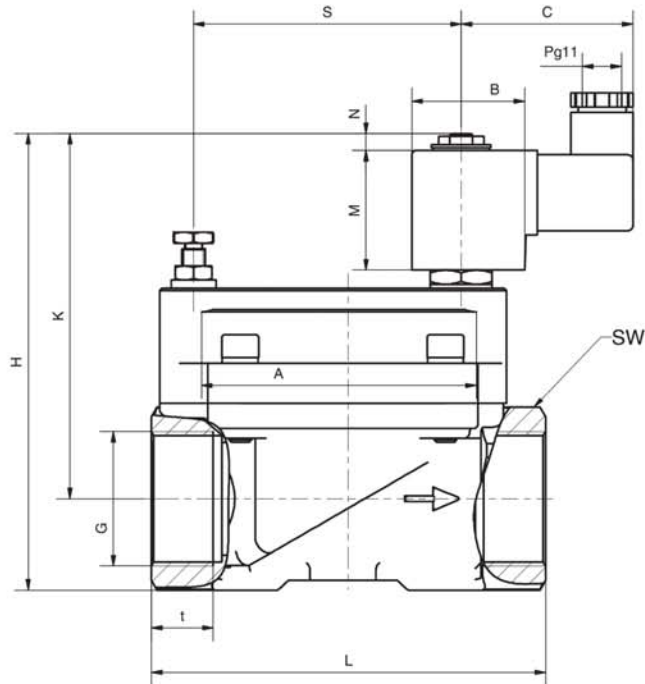
Valve non-energised closed by spring power - NC. When energised, the pressure decomposes on the secondary side of the piston. Then the pressure differential (Δp) lifts the piston from the seat (orifice). A pressure differential (Δp) is necessary for accurate operation.



| | | | |
|--|--|--|---|
| Steuerungsart: Type of control: | servogesteuert pilot operated | Dichtung: Seal: | NBR NBR |
| Konstruktion: Construction: | Kolbensitzventil Piston design | Einbaulage: Installation: | beliebig in any position |
| Anschluss: Connection: | G1/4-G2, DIN ISO 228 G1/4-G2, DIN ISO 228 | Anschlussspannung: Supply voltage: | AC: 24,42,110,230V 50/60Hz DC: 24,110,205V= |
| Druck: Pressure: | 1-40 bar (s. Tabelle) 1-40 bar (see table) | Spannungstoleranz: Voltage tolerance: | +5% / -10% +5% / -10% |
| Durchflussmedium: Medium: | neutrale, gasförmige u. flüssige Medien neutral, gaseous and liquid medium | Leistungsaufnahme: Power-consumption: | 1012=18,5 Watt 0012=43/24 VA 1692=25 Watt 3692=25 Watt 1148=10 Watt 0148=9 VA |
| Viskosität: Viscosity: | 22mm ² /s 22mm ² /s | Schutzart: Enclosure standard: | IP65 nach DIN 40050 IP65 according to DIN 40050 |
| Mediumtemperatur: Medium temperature: | -10 bis +80°C -10 up to +80°C | Einschaltdauer: Operating factor: | 100% ED-VDE 0580 100% ED-VDE 0580 |
| Umgebungstemperatur: Ambient temperature: | +35°C +35°C | Kabelanschluss: Electric connection: | Gerätestecker DIN 43650 DIN 43650 - Plug |
| Ventilgehäuse: Body material: | ../10../ = Messing / Brass ../08../ = Edelstahl 1.4581 / St. steel (AISI 316Ti) | | |
| Metall. Innenteile: Metallic internals: | Messing und Edelstahl 1.4104 Brass and stainless steel (AISI 430F) | | |

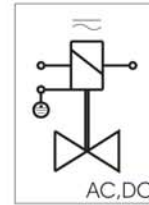
| G | Sitz Orifice Ømm | Kv-Wert Flow-rate m ³ /h | Standardtype Standard-type | max. Druck bei Magnettype max. pressure reagrdng solenoid type | | |
|---|------------------------|---|-------------------------------|---|---------|------------------------------|
| | | | | .012 | .692-NO | Ex II 2G EEx m II T4 .148 |
| 1/4 | 13 | 1,8 | E5021/1001/.... | 1-40 | 1-40 | 1-25 |
| 3/8 | 13 | 4,0 | E5022/1001/.... | 1-40 | 1-40 | 1-25 |
| 1/2 | 13 | 4,5 | E5023/1001/.... | 1-40 | 1-40 | 1-25 |
| 3/4 | 25 | 11,5 | E5024/1001/.... | 1-40 | 1-40 | 1-25 |
| 1 | 25 | 13,0 | E5025/1001/.... | 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 |

Maßzeichnung Standardausführung
Dimensional drawing of standard type

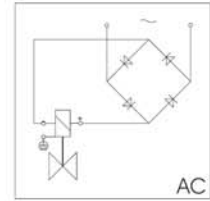


Schaltfunktion/Function:
in Ruhestellung geschlossen - NC.
Normally closed - NC.

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. 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 operation = 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 Ex e mb II T4
Explosion proof = Ex II 2G Ex e mb II T4

Grundmengeneinstellung = GM
Base of volume adjustable = GM

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

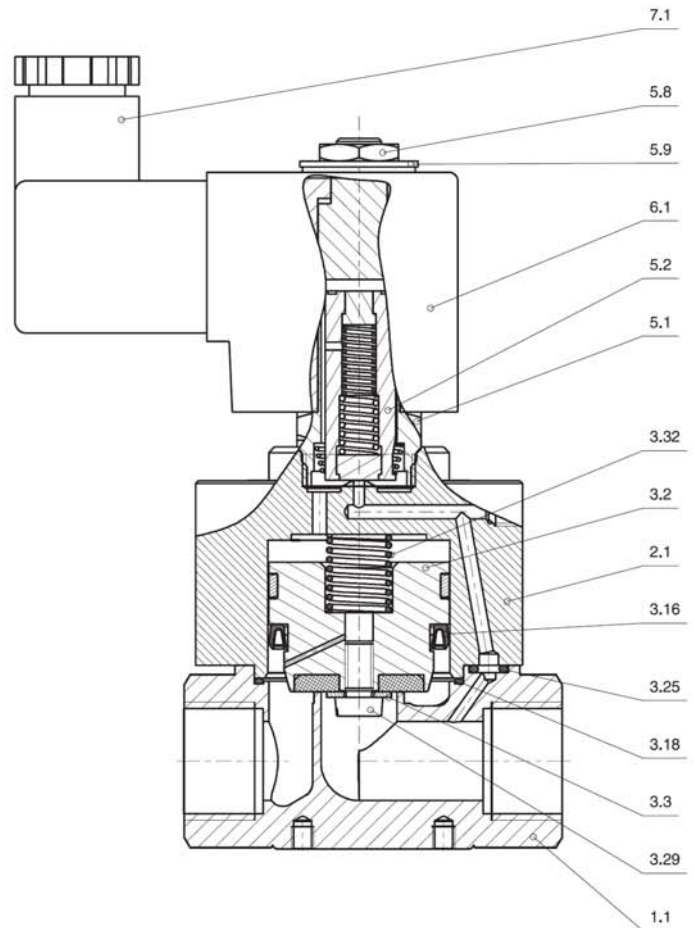
Abgedichteter Ankerraum = AA
Sealed plunger = AA

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 sol. / .328

Stromlos geöffnet, Kompressorlastungsventil = NP
Non energised open, compressor relief valve = NP

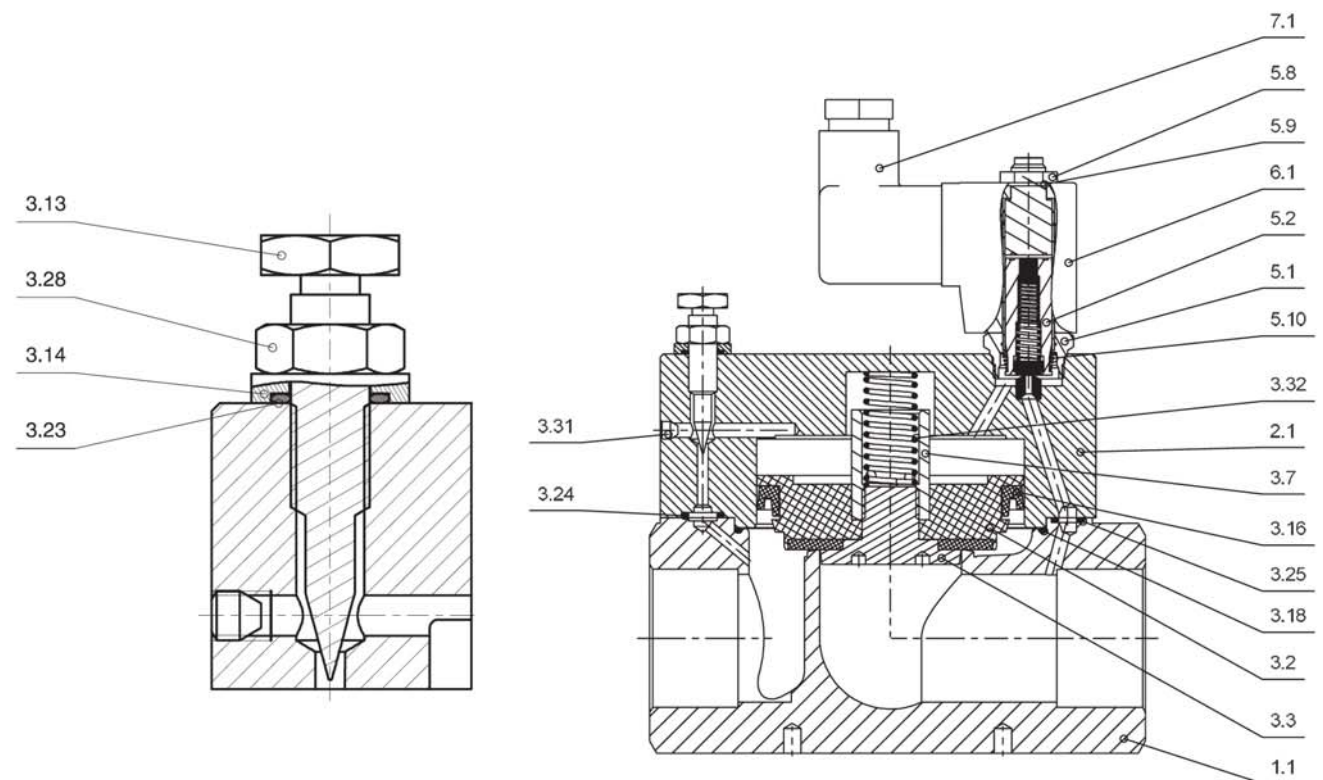
- K1.1 Armatur / Valve body
- K2.1 Deckel / Bonnet
- *K3.2 Ventilkolben / Piston
- *K3.3 Scheibe / Disk
- *K3.7 Führungsschraube / Guide screw
- K3.13 Dämpfungsschraube / Damping screw
- K3.14 Scheibe / Disk
- *K3.16 Nutring / U-cup seal
- *K3.18 O-Ring / O-ring
- *K3.23 O-Ring / O-ring
- *K3.24 O-Ring / O-ring
- *K3.25 O-Ring / O-ring
- K3.28 6-kt. Mutter / Hexagon nut
- *K3.29 Senkschraube / Screw
- K3.31 Gewindesttift / 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)

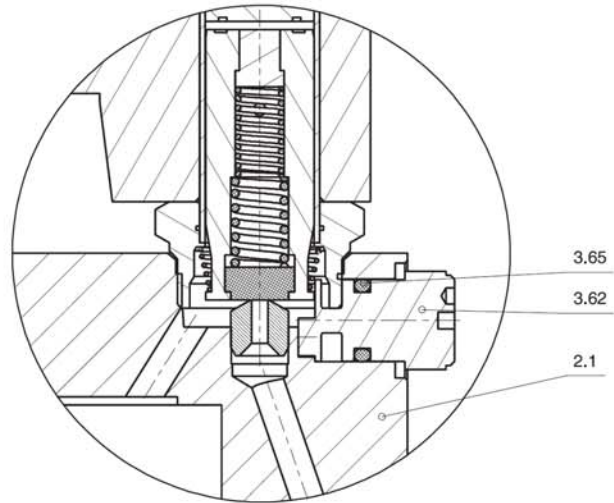
Schraube nach rechts drehen : Ventil schließt langsamer
 Screw to the right site : Valve closes- slower
 Schraube nach links drehen : Ventil schließt schneller
 Screw to the left site : Valve closes - faster



Ventiloptionen / Optional extras

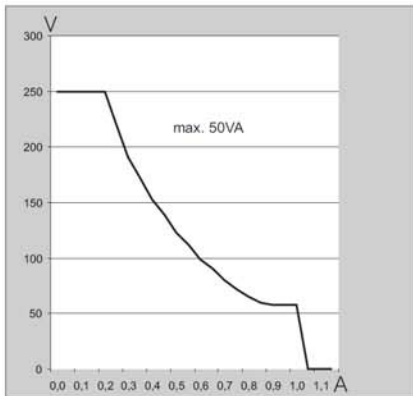
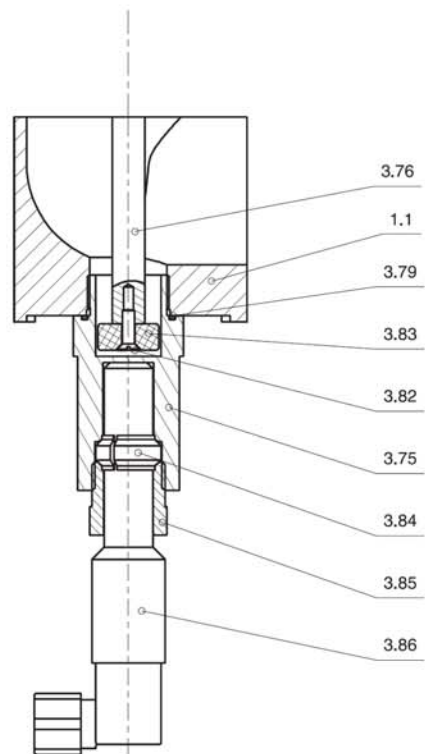
Handbetätigung - HA bei Magnet .012/.148
 Manual override - HA for solenoid .012/.148

- K2.1 Deckel / Bonnet
- K3.62 Handbetätigung / Manual operation
- 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

