# TYPE K37

**2/2-way solenoid valve**
**NC - Valve normally closed (as standard)**
**NO - Valve normally open (as option)**

**Force-pilot operated piston valve**
**No differential pressure is necessary for operation.**
**In standard (NC) the valve closes with spring power.**

■ **Valve for extended temperature range**

## TECHNICAL SPECIFICATIONS

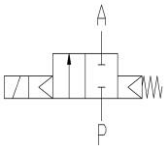
| | |
|---|---|
| Type of control | Force-pilot operated, no pressure difference necessary |
| Design | Piston design |
| Connection | Flanges DN15 - DN50<br>EN 1092-1 Form B1/B2 |
| Installation | Actuator upright |
| Pressure | 0 - 40 bar (see table on page 2) |
| Medium | Clean, neutral gaseous and liquid media |
| Max. viscosity | 22 mm²/s |
| Temperature range | Medium: -60°C / +80°C<br>Environment: -55°C / +50°C<br>Taking into account other influencing parameters<br>ATEX: -55°C / +40°C, +60°C<br>(depending on ATEX coil) |
| Body material | Stainless steel 1.4581 |
| Metallic inner parts | Stainless steel |
| Sealing | PTFE |
| Supply voltage | AC~ 24V, 110V, 230V<br>DC= 12V, 24V<br>Other supply voltages on request |
| Voltage tolerance | -10% / +10% |
| Power consumption | S802 = 18 Watt .808 = 24 Watt<br>S322 = 21 Watt .328 = 24 Watt<br>S242 = 26 Watt .248 = 30 Watt<br>S272 = 60 Watt .278 = 30 Watt<br>S352 = 80 Watt .358 = 75 Watt |
| Protection class | IP65 according to DIN 60529 |
| Duty factor | 100% ED-VDE 0580 |
| Connection type | terminal box |
| Ex-proof | acc. to 2014/34/EU (ATEX) |

## VALVE FEATURES

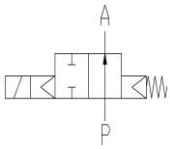
- For cold media to -60 °C
- No pressure difference is required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

## FUNCTION

NC – non energized closed

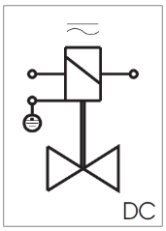



NO – non-energized open

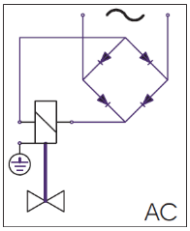



## CONNECTION DIAGRAM

For AC/DC coils




For DC coils
w/ integr. rectifier




## CERTIFICATES

LDA Solutions for Life
Hoge Buizen 53 -1980 EPPEGEM (BE)
www.LDA.be - LDA@LDA.be
+32(0) 2 266 13 13

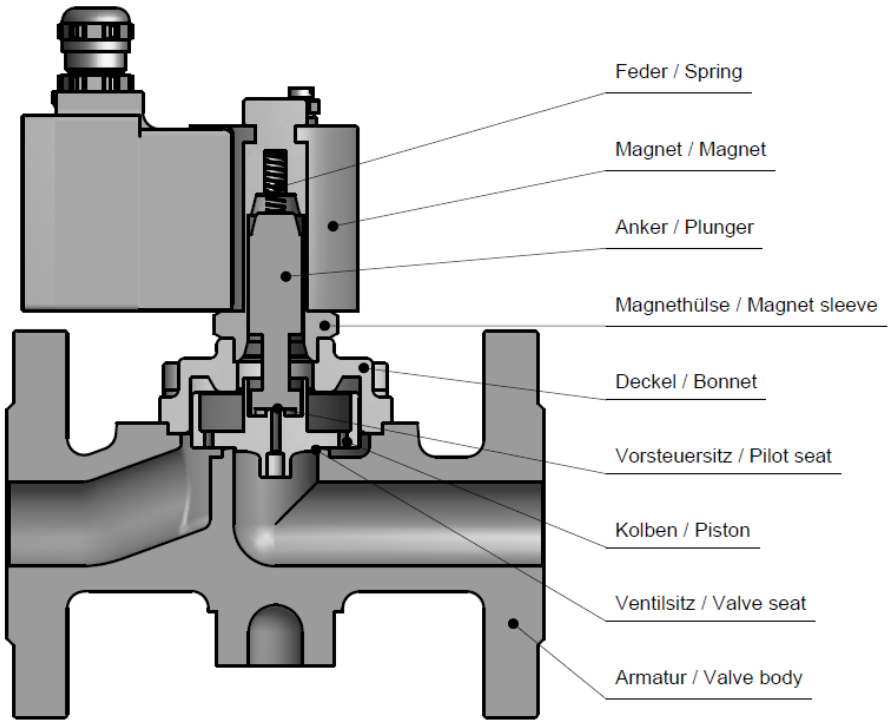
# TECHNICAL FEATURES

| | | | | max. pressure for coils | | | | |
|---|---|---|---|---|---|---|---|---|
| DN | Seat Ø mm | Kv-value m³/h | Standard type | S802 | S322* | S242 | S272 | S352 |
| 15 | 15 | 5,0 | K3701/0804/ | 0-40 | 0-40 | - | - | - |
| 20 | 20 | 11,0 | K3702/0804/ | 0-16 | 0-40 | 0-40 | - | - |
| 25 | 25 | 13,0 | K3703/0804/ | 0-16 | 0-40 | 0-40 | - | - |
| 32 | 32 | 28,0 | K3704/0804/ | - | 0-25 | 0-40 | 0-40 | - |
| 40 | 40 | 30,0 | K3705/0804/ | - | 0-25 | 0-40 | 0-40 | - |
| 50 | 50 | 46,0 | K3706/0804/ | - | 0-6 | 0-16 | 0-40 | 0-40 |

**The flow rate mentioned in the table applies to the strongest coil.**
*** Pressure ranges may be reduced when using options such as manual override or limit switches.**

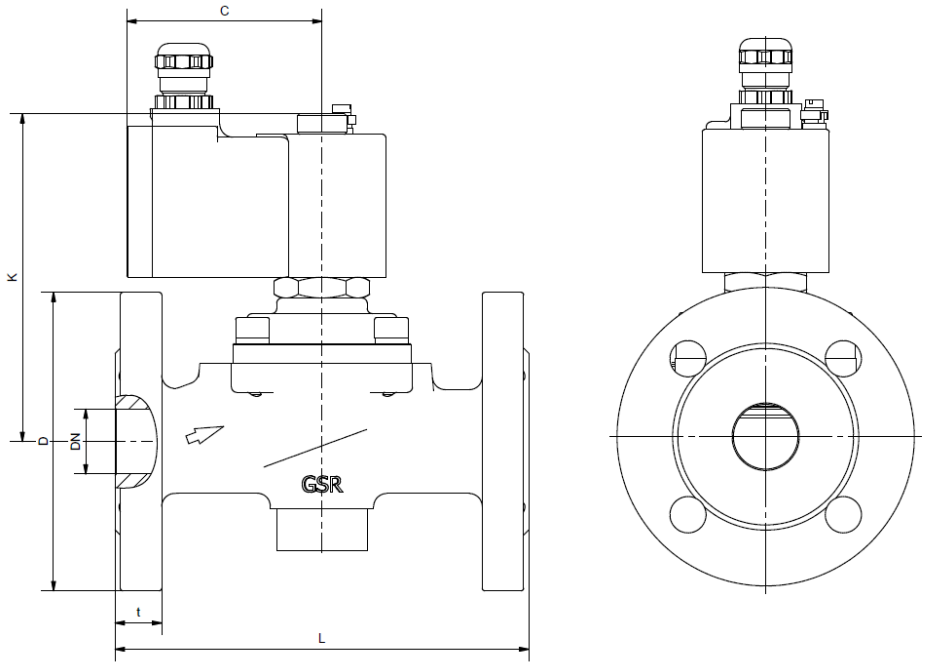
| | | | | max. pressure for coils ATEX | | | | |
|---|---|---|---|---|---|---|---|---|
| DN | Seat Ø mm | Kv-value m³/h | Standard type | .808 | .328* | .248 | .278 | .358 |
| 15 | 15 | 5,0 | K3701/0804/ | 0-30 | 0-40 | - | - | - |
| 20 | 20 | 11,0 | K3702/0804/ | 0-12 | 0-25 | 0-40 | - | - |
| 25 | 25 | 13,0 | K3703/0804/ | 0-12 | 0-25 | 0-40 | - | - |
| 32 | 32 | 28,0 | K3704/0804/ | - | 0-16 | 0-25 | 0-40 | - |
| 40 | 40 | 30,0 | K3705/0804/ | - | 0-16 | 0-25 | 0-40 | - |
| 50 | 50 | 46,0 | K3706/0804/ | - | 0-2 | 0-10 | 0-16 | 0-40 |

**The flow rate mentioned in the table applies to the strongest coil.**
*** Pressure ranges may be reduced when using options such as manual override or limit switches.**




LDA Solutions for Life
Hoge Buizen 53 -1980 EPPEGEM (BE)
www.LDA.be - LDA@LDA.be
+32(0) 2 266 13 13

# DIMENSIONS




| Coil | S802 / .808 | | | S322 / .328 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Type | K3701 | K3702 | K3703 | K3701 | K3702 | K3703 | K3704 | K3705 | K3706 |
| DN | 15 | 20 | 25 | 15 | 20 | 25 | 32 | 40 | 50 |
| C | 75 | 75 | 75 | 77 | 77 | 77 | 77 | 77 | 77 |
| D | 95 | 105 | 115 | 95 | 105 | 115 | 140 | 150 | 165 |
| K | 104 | 122 | 122 | 148 | 138 | 131 | 148 | 148 | 168 |
| L | 130 | 150 | 160 | 130 | 150 | 160 | 180 | 200 | 230 |
| t | 16 | 18 | 18 | 16 | 18 | 18 | 18 | 18 | 20 |
| kg | 2,9 | 4,4 | 4,4 | 3,6 | 4,8 | 5,3 | 7,9 | 8,4 | 11,0 |

| Coil | S242 /.248 | | | | | S272 / 278 | | | S352 / .358 |
|---|---|---|---|---|---|---|---|---|---|
| Type | K3702 | K3703 | K3704 | K3705 | K3706 | K3704 | K3705 | K3706 | K3706 |
| DN | 20 | 25 | 32 | 40 | 50 | 32 | 40 | 50 | 50 |
| C | 93 | 93 | 93 | 93 | 93 | 106 | 106 | 106 | 126 |
| D | 105 | 115 | 140 | 150 | 165 | 140 | 150 | 165 | 165 |
| K | 194 | 178 | 188 | 188 | 186 | 218 | 230 | 240 | 319 |
| L | 150 | 160 | 180 | 200 | 230 | 180 | 200 | 230 | 230 |
| t | 16 | 18 | 18 | 18 | 20 | 18 | 18 | 20 | 20 |
| kg | 7,0 | 7,2 | 9,8 | 10,2 | 12,9 | 13,4 | 14,3 | 16,9 | 29,0 |

LDA Solutions for Life
Hoge Buizen 53 -1980 EPPEGEM (BE)
www.LDA.be - LDA@LDA.be
+32(0) 2 266 13 13

## INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **For information on the heating and performance of solenoid coils, refer to the corresponding "Coils" data sheet.**
- **Detailed production-specific drawings and other technical information will be made available when an order is placed.**

## PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since, in addition to high temperatures, high pressures and high flow rates must also be taken into account when selecting the materials.

**All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.**

## ORDERING CODE

| Type | Connection | | Body | Sealing | | Coil | | Option |
|---|---|---|---|---|---|---|---|---|
| K 37 | 0 1 | / | 0 8 | 0 4 | / S | 8 0 | 2 | - x x |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 01 | DN15 | 08 | St.steel 1.4581 | 80 | 18 W | 2 | Standard IP65 |
| 02 | DN20 | | | 32 | 21 W | 8 | 2014/34/EU (ATEX) |
| 03 | DN25 | 04 | PTFE | 24 | 26 W | | |
| 04 | DN32 | | | 27 | 60 W | NO | normally open |
| 05 | DN40 | | | 35 | 80 W | AX | ANSI Flanges |
| 06 | DN50 | | | | | | |

LDA Solutions for Life

Hoge Buizen 53 -1980 EPPEGEM (BE)
www.LDA.be - LDA@LDA.be
☏ +32(0) 2 266 13 13

GSR Ventiltechnik
GmbH & Co. KG
Im Meisenfeld 1
D-32602 Vlotho
T +49 5228 779-0
info@ventiltechnik.de
www.ventiltechnik.de