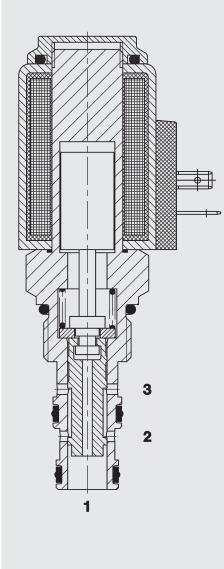


max. 350 bar

FUNCTION



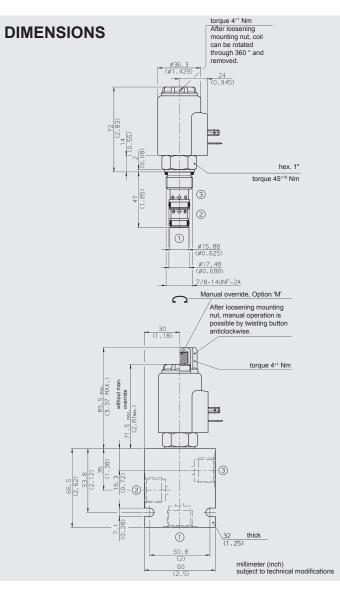
When de-energized, the valve allows flow in both directions between ports 3 and 2, while blocking flow at port 1. When energized, the valve allows flow in both directions between ports 1 and 2, while blocking flow at port 3. **3/2 Solenoid Directional Valve UNF Spool Type, Direct-Acting SAE-10 Cartridge – 350 bar** WK10D-01

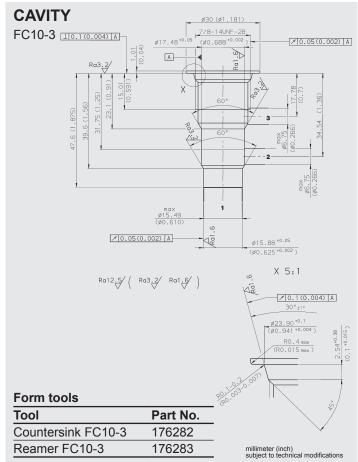
FEATURES

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

| Operating pressure: | max. 350 bar | max. 350 bar | |
|------------------------------------|--|---|--|
| Nominal flow: | max. 32 l/min | | |
| Internal leakage: | max. 120 cm³/mi | max. 120 cm³/min at 250 bar and 34 mm²/s | |
| Media operating temperature range: | min20 °C to m | nax. +100 °C | |
| Ambient temperature range: | min20 °C to m | min20 °C to max. +60 °C | |
| Operating fluid: | Hydraulic oil to DIN 51524 Part 1 and 2 | | |
| Viscosity range: | min. 7.4 mm ² /s to max. 420 mm ² /s | | |
| Filtration: | Class 21/19/16 according to ISO 4406 or cleaner | | |
| MTTF _d : | 150 years (see "Conditions and instructions for valves" in brochure 5.300) | | |
| Materials: | Valve body: | free-cutting steel | |
| | Spool: | hardened and ground steel | |
| | Seals: | NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) | |
| | Back-up rings: | PTFE | |
| | Coil: | Steel/Polyamide | |
| Cavity: | FC10-3 | | |
| Weight: | Valve complete | 0.47 kg | |
| | Coil only | 0.23 kg | |
| Electrical data: | | | |
| Coil duty rating: | Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature | | |
| Current draw at 20 °C: | 2.22 A at 12 V DC 1.13 A at 24 V DC | | |
| Voltage tolerance: | ± 15% of the nominal voltage | | |
| Coil type: | Coil50-1836 | | |





| Μ | ODEL CODE |
|-----------------|--|
| | <u>WK10D</u> – <u>01</u> M – C – N – <u>24</u> <u>DG</u> |
| Dir | sic model |
| Ty 01 | = standard |
| | nual override |
| | details = without manual override |
| | = manual override |
| | e cartridge only |
| SB | 4 = G1/2 ports, steel body |
| | 4 = G1/2 ports, aluminium body |
| | als = NBR (standard) |
| V | = FKM |
| | il voltage |
| 12 | = 12 V DC |
| | = 24 V DC |
| AC | voltages (bridge rectifier built into the coil) |
| | 5 = 115 V AC |
| | her voltages on request |
| Co | il connectors (type 50-1836) |
| DC | : DG = DIN connector to EN 175301-803 DK = KOSTAL threaded connection M27x1 |
| | DL = 2 flying leads, 457 mm long, 0.75 mm ² |
| | DN = Deutsch connector, 2-pole, axial |
| 40 | DT = AMP Junior Timer, 2-pole, radial |
| | her connectors on request |
| | AG = DIN connector to EN 175301-803 |

Standard models

| Model code | Part No. |
|--------------------|----------|
| WK10D-01-C-N-24DG | 3095107 |
| WK10D-01-C-N-230AG | 3095105 |

*Standard in-line bodies

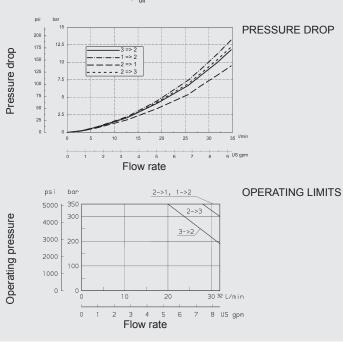
| Code | Part No. | Material | Ports | Pressure |
|----------------|-----------|---------------------|-------|----------|
| FH103-SB4 | 3037697 | Steel, zinc-plated | G1/2 | 420 bar |
| FH103-AB4 | 3038092 | Aluminium, anodized | G1/2 | 210 bar |
| Other bodies o | n request | | | |
| | | | | |

Seal kits

| Code | Material | Part No. | | |
|------------------|----------|----------|--|--|
| FS103-N SEAL KIT | NBR | 3071274 | | |
| FS103-V SEAL KIT | FKM | 3049443 | | |
| | | | | |

PERFORMANCE

Measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{oil} = 46 \text{ °C}$



NOTE The information in this brochure relates to the For applications or operating conditions not described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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