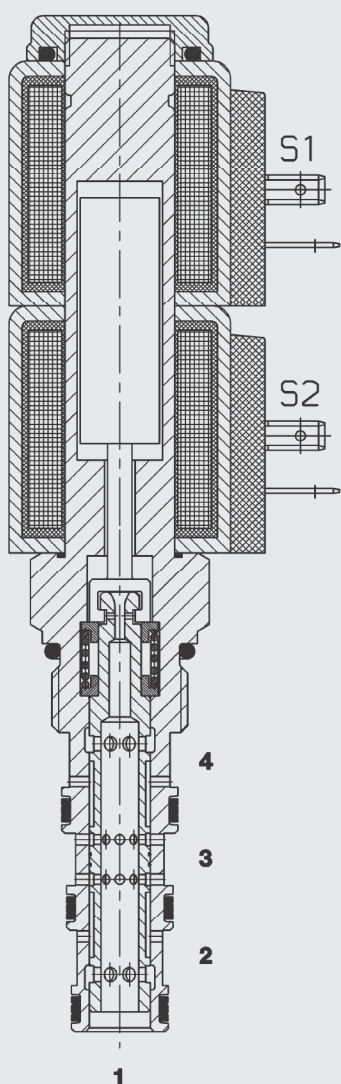


23 l/min
350 bar

FUNCTION



When de-energized, the valve allows flow from port 3 to 1, while blocking flow at ports 2 and 4. When solenoid coil S1 is energized, there is free flow through the valve from port 3 to 2 and from port 4 to 1. When solenoid coil S2 is energized, there is free flow through the valve from port 3 to 4 and from port 2 to 1.

4/3 Solenoid Directional Valve **UNF** Spool Type, Direct-Acting SAE-10 Cartridge – 350 bar WK10G-01

FEATURES

- External surfaces zinc-nickel-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

SPECIFICATIONS*

Operating pressure:	350 bar
Nominal flow:	max. 23 l/min
Leakage:	max. 280 cm ³ /min at 207 bar and 34 mm ² /s
Media operating temperature range:	min. -20 °C to max. +100 °C
Ambient temperature range:	min. -20 °C to max. +60 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2
Viscosity range:	min. 7.4 to max. 420 mm ² /s
Filtration	Class 21/19/16 according to ISO 4406 or cleaner
MTTF _d :	150 years
Installation:	No orientation restrictions
Material:	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:	FC10-4
Weight:	Valve complete: 0.67 kg Coil only: 0.19 kg

Electrical data:

Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil
Current draw at 20 °C:	1.5 A at 12 V DC 0.8 A at 24 V DC
Voltage tolerance:	± 15 % of nominal voltage
Coil duty rating:	Continuous up to max. 115% of nominal voltage at max. 60° C ambient temperature
Coil type:	Coil...-40-1836 (2 pieces)

* see "Conditions and instructions for valves" in brochure 53.000

The technical drawing includes several views of the S1/S2 coil assembly:

- Front View (Left):** Shows the overall dimensions of the coil. Key dimensions include a total height of 103.5 mm (4.07 inch), a mounting nut diameter of $\varnothing 36.3$ mm ($\varnothing 1.429$ inch), and a base diameter of $\varnothing 63.5$ mm (2.5 inch). The coil is divided into two sections, S1 and S2.
- Side View (Top Right):** Labeled "Option M not detented". It shows a side profile with a mounting nut diameter of $\varnothing 15$ mm ($\varnothing 0.59$ inch) and a total height of 122.5 mm (4.823 inch).
- Side View (Bottom Right):** Labeled "Option A detented". It shows a similar side profile with a mounting nut diameter of $\varnothing 15$ mm ($\varnothing 0.59$ inch) and a total height of 122.5 mm (4.823 inch).
- Isometric View (Bottom Left):** Provides a three-dimensional perspective of the coil. Dimensions shown include a total length of 29.5 mm (1.161 inch), a mounting nut diameter of $\varnothing 29.5$ mm (1.161 inch), and a base diameter of $\varnothing 63.5$ mm (2.5 inch). The coil is labeled with numbers 1 through 4.
- Detail View (Bottom Center):** A close-up of the mounting nut and base. It shows a hexagonal nut with a size of "hex. SW 1\" and a torque specification of "Torque 38⁺⁷ Nm". Dimensions include a total height of 103 mm (4.06 inch), a mounting nut diameter of $\varnothing 29.5$ mm (1.161 inch), and a base diameter of $\varnothing 63.5$ mm (2.5 inch).

[illegible]

Tool	Part No.
Countersink FC10-4	176174
Reamer FC10-4	176175

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