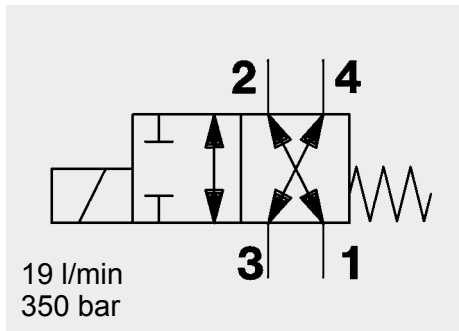
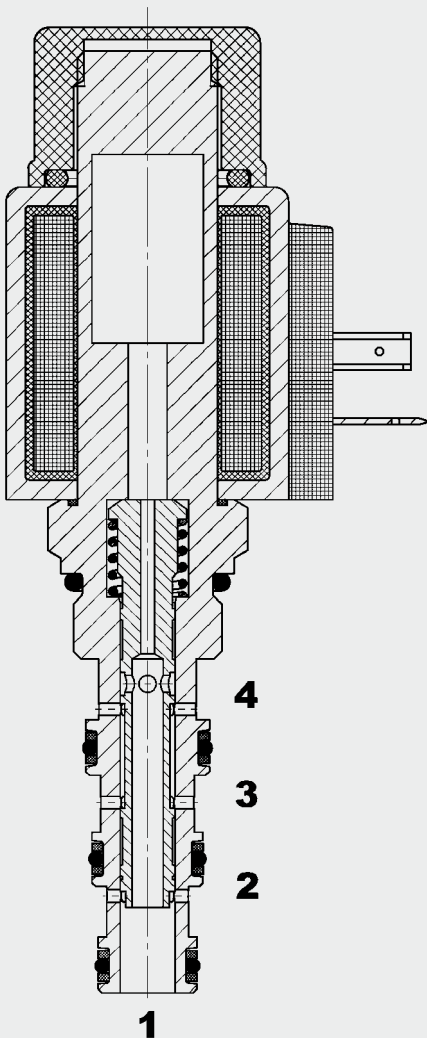


4/2 Solenoid Directional Valve **UNF** Spool Type, Direct-Acting SAE-08 Cartridge – 350 bar

WK08R-01



FUNCTION



When de-energized, the valve allows flow from port 3 to 4 or from 4 to 3 and from port 1 to 2 or 2 to 1.

When energized, the valve allows flow from port 1 to 4 or from port 4 to 1, while blocking flow at ports 3 and 2.

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 connections available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow path

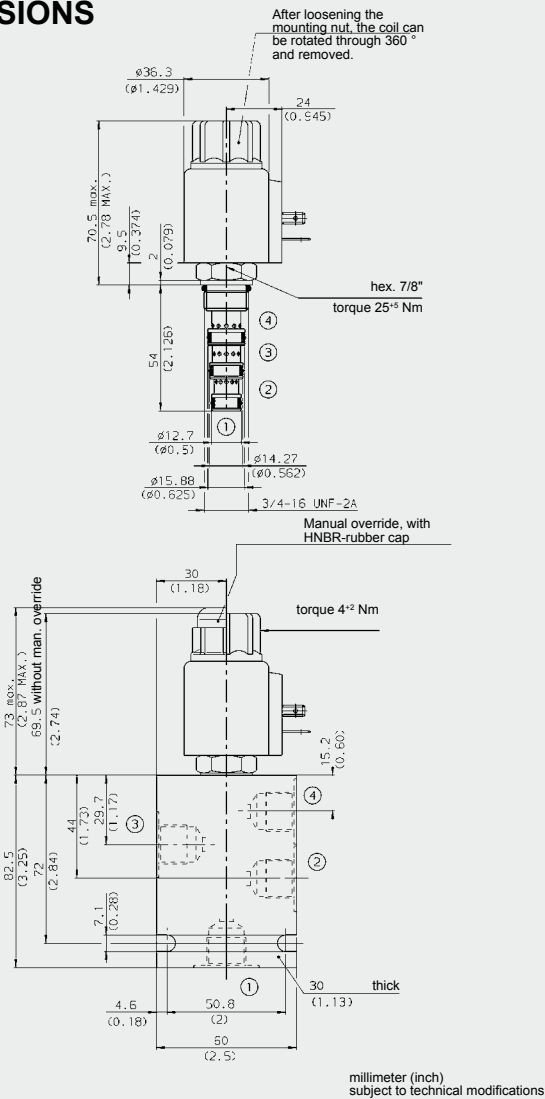
SPECIFICATIONS

| | |
|------------------------------------|---|
| Operating pressure: | 350 bar |
| Nominal flow: | 19 l/min |
| Internal leakage: | max. 90 cm ³ /min at 250 bar and 36 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 (see "Conditions and instructions for valves" in brochure 5.300) |
| Installation: | No orientation restrictions |
| Material: | Valve body: 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: | FC08-4 |
| Weight: | Valve complete: 0.38 kg Coil only: 0.19 kg |

Electrical data:

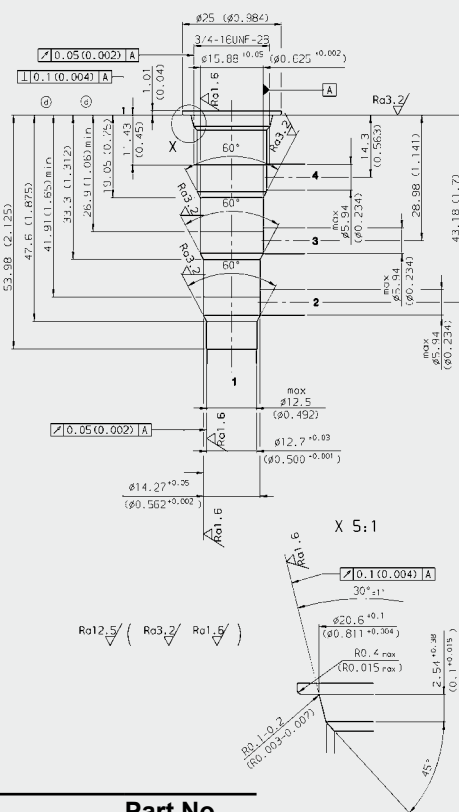
| | |
|------------------------|---|
| Type of voltage: | DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil |
| Current draw at 20 °C: | 1.5 A at 12 V DC 0.8 A at 24 V DC |
| Voltage tolerance: | ± 15 % of nominal voltage |
| Coil duty rating: | Continuous up to max. 115% of the nominal voltage at max. 60° C ambient temperature |
| Coil type: | Coil...-40-4836 |

DIMENSIONS



CAVITY

FC08-4



Form tools

| Tool | Part No. |
|--------------------|----------|
| Countersink FC08-4 | 175646 |
| Reamer FC08-4 | 175647 |

millimeter (inch) subject to technical modifications

MODEL CODE

WK08R - 01 M - C - N - 24 DG

Basic model

Directional spool valve, UNF

Type

01 = standard

Manual override

no details = without manual override
M = manual override

Body and ports*

C = cartridge only
SB3 = G3/8 ports, steel body
AB3 = G3/8 ports, aluminium body

Seals

N = NBR (standard)
V = FKM

Coil voltage

DC voltages

12 = 12 V DC
24 = 24 V DC

AC voltages (bridge rectifier built into the coil)

115 = 115 V AC
230 = 230 V AC

Other voltages on request

Coil connectors (type 40-1836)

DC: DG = DIN connector to EN175301-803
DK = Kostal threaded connection M27 x 1
DL = 2 flying leads, 457 mm long, 0.75 mm²
DN = Deutsch connector, 2-pole
DT = AMP Junior Timer, 2-pole, radial

AC: AG = DIN Connector to EN 175301-803

Other connectors on request

Standard models

| Model code | Part No. |
|--------------------|----------|
| WK08R-01-C-N-12DG | 3110609 |
| WK08R-01-C-N-24DG | 3038912 |
| WK08R-01-C-N-230AG | 3108340 |

Other models on request

*Standard in-line bodies

| Code | Part No. | Material | Ports | Pressure |
|-----------|----------|---------------------|-------|----------|
| FH084-SB3 | 563383 | Steel, zinc-plated | G3/8 | 420 bar |
| FH084-AB3 | 3011407 | Aluminium, anodized | G3/8 | 210 bar |

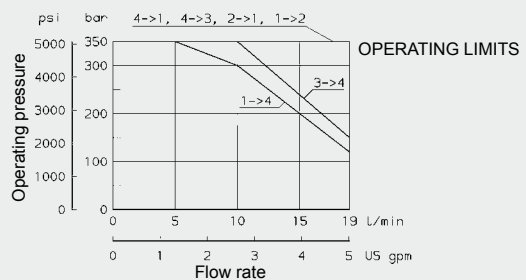
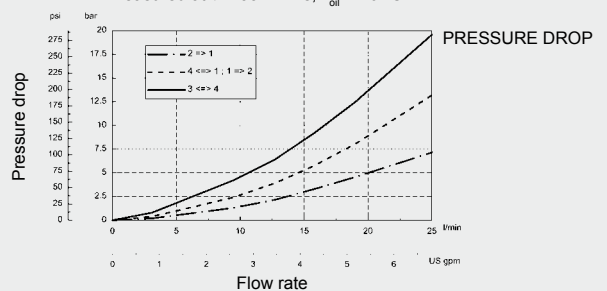
Other bodies on request

Seal kits

| Code | Material | Part No. |
|------------------|----------|----------|
| Seal kit FS084-N | NBR | 3071272 |
| Seal kit FS084-V | FKM | 3071273 |

PERFORMANCE

Measured at $v = 33 \text{ mm}^2/\text{s}$, $T_{oil} = 46 \text{ }^\circ\text{C}$



NOTE

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

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