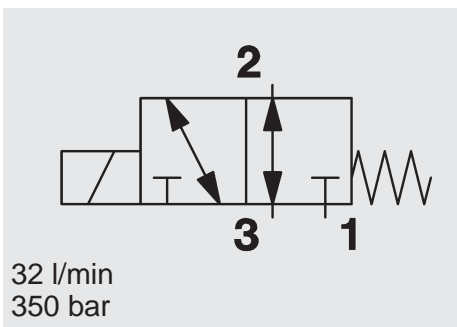
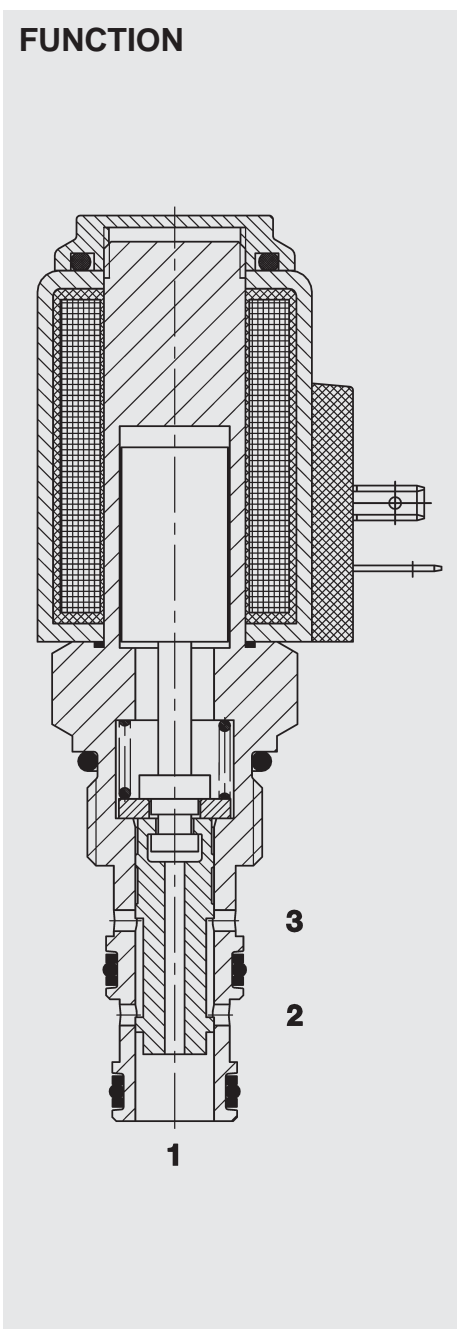


3/2-Solenoid Directional Valve SAE 10-Cartridge – 350 bar

WK10D-01
SPOOL Type - Direct Operated



FUNCTION



In the de-energized mode, the valve allows flow from 3 to 2 or from 2 to 3, while blocking flow at 1.

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

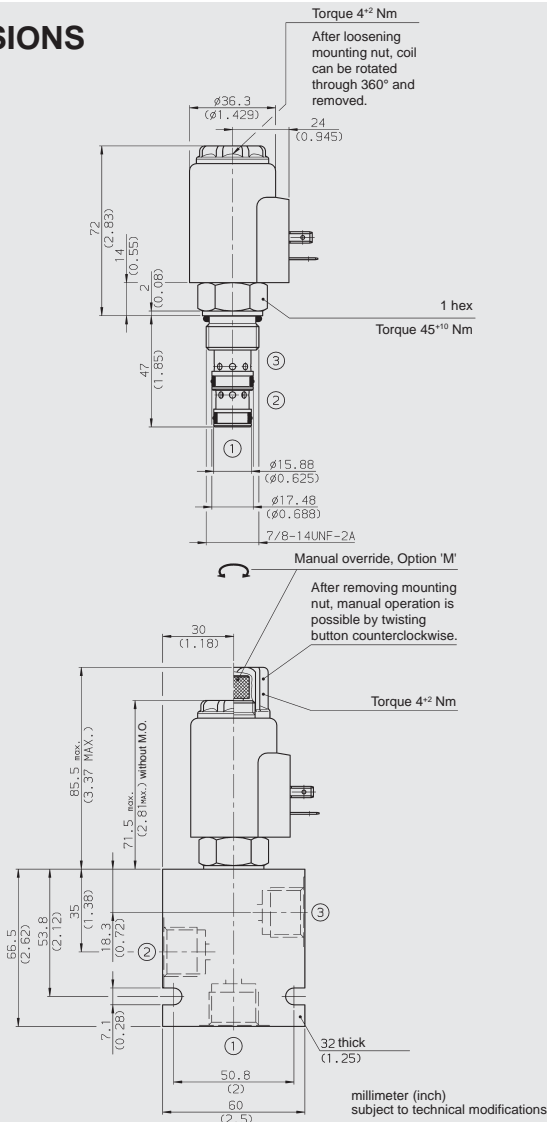
FEATURES

- All surfaces zinc-plated and corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Rigid design using one-piece body minimizes the effect of eccentricities in cavity and maximizes reliability
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop by CFD optimized flow-path

SPECIFICATIONS

Operating pressure:	350 bar
Proof pressure:	520 bar
Nominal flow:	32 l/min
Internal leakage:	120 cm ³ /min max at 250 bar and 34 mm ² /s
Media operating temp. range:	-20 °C to +120 °C
Ambient temp. range:	-20 °C to +60 °C
Coil duty rating:	Continuous up to 115% of 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
Minimum Pull-in Voltage:	±15 % of nominal voltage
Fluids:	Mineral-based or synthetics with lubricating properties
Viscosity:	7.4 to 420 mm ² /s
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
Material:	Valve body: carbon steel Spool: carbon steel Seals: NBR (standard) FKM (optional) Steel/Polyamide
Cavity:	FC10-3
Weights:	Valve complete: 0.47 kg Coil only: 0.23 kg

DIMENSIONS



MODEL CODE

WK10D-01 M - C - N - 24 DG

Basic Model

Option
 Omission = No Option
 M = Manual Override

Body and Ports*

C = Cartridge only
 SB4 = 1/2 BSP ports, steel body
 SS8 = SAE-8 ports, steel body
 AB4 = 1/2 BSP ports, aluminium body
 AS8 = SAE-8 ports, aluminium body

Seals

N = NBR
 V = FKM

Coil Voltage

DC
 12 = 12 V DC
 24 = 24 V DC

AC (internally full wave rectified)

24 = 24 V AC
 115 = 115 V AC
 230 = 230 V AC

Coil Connector

DC: DG = DIN Connector (EN 175301-803)
 DT = AMP Junior Timer, 2-pole, radial
 DN = Deutsch Connector

AC: AG = DIN Connector (EN 175301-803)

other connector types on request

Standard models

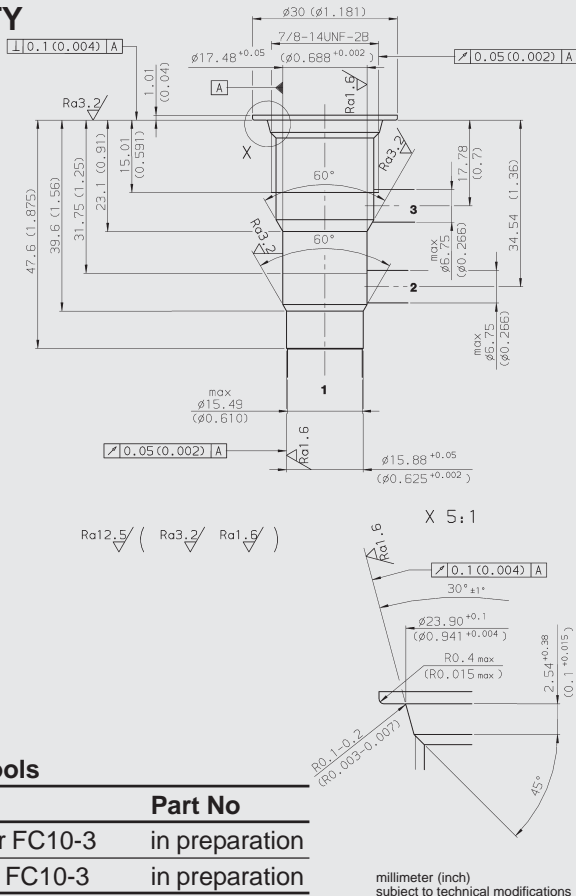
Model code	Stock no.
WK10D-01-C-N-24DG	3095107
WK10D-01-C-N-230AG	3095105

*Standard Line Bodies

Code	Stock no.	Material	Ports	Pressure
FH103-SB4	3037697	Steel, zinc-plated	1/2 BSP	420 bar
FH103-SS8	3037704	Steel, zinc-plated	SAE-8	420 bar
FH103-AB4	3038092	Aluminium, clear anodized	1/2 BSP	245 bar
FH103-AS8	3038095	Aluminium, clear anodized	SAE-8	245 bar

CAVITY

FC10-3



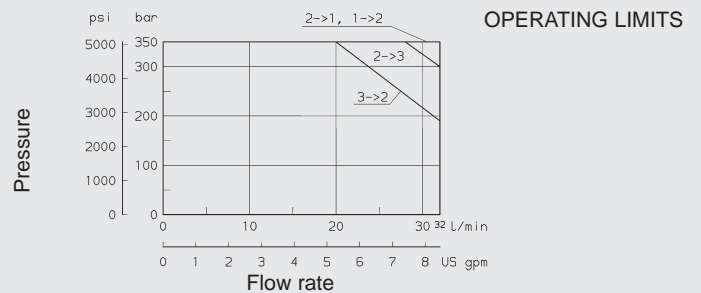
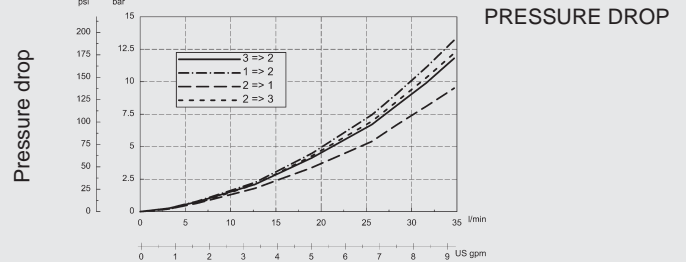
Form tools

Tool	Part No
Rougher FC10-3	in preparation
Finisher FC10-3	in preparation

PERFORMANCE

Measured at 34 mm²/s

T_{Oil} = 46 °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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