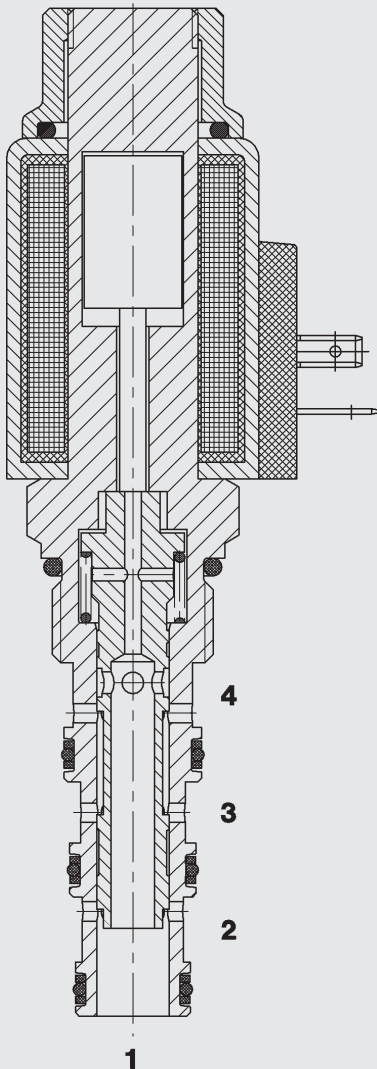


FUNCTION



In the de-energized mode, the valve allows flow from 3 to 4 or 4 to 3 and from 2 to 1 or 1 to 2. When energized, the valve allows flow from 1 to 4 or 4 to 1 while blocking flow at 3 and 2.

4/2-Solenoid Directional Valve SAE 10-Cartridge - 350 bar

WK10R-01
SPOOL Type - Direct Operated

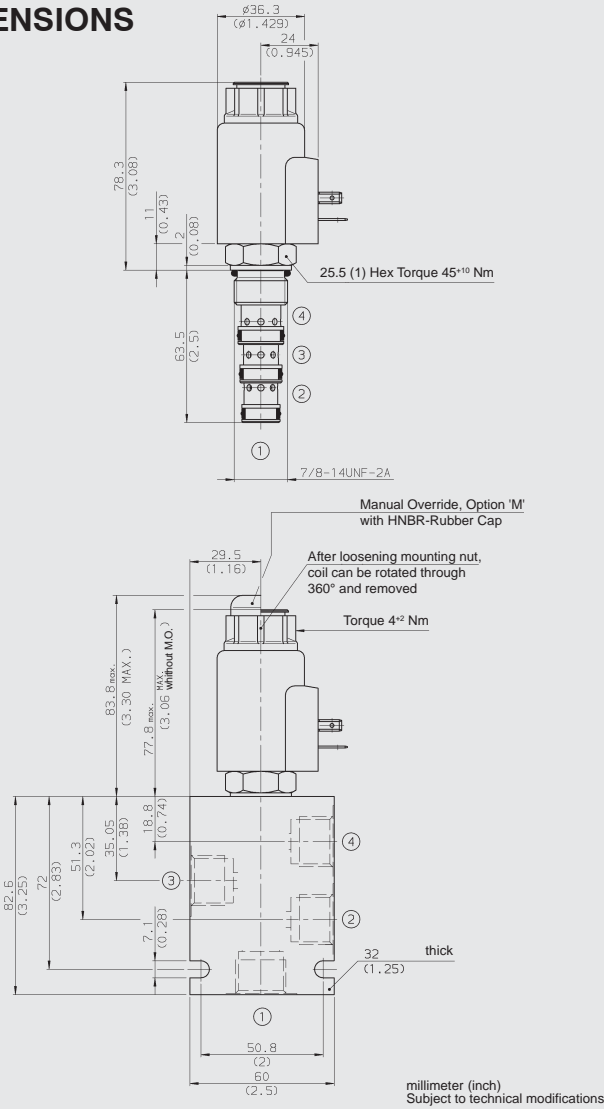
FEATURES

- Wet armature solenoid
- Wide voltage tolerance
- All surfaces zinc-plated and corrosion-proof
- Waterproof design as standard
- Wide variety of coils and connections available
- One piece body design

SPECIFICATIONS

Operating Pressure:	350 bar
Proof pressure:	520 bar
Nominal flow:	32 l/min
Internal Leakage:	100 cm ³ /min max at 250 bar and 34 cSt
Media Operating Temperature Range:	-20 °C to +120 °C
Ambient Temperature Range:	-20 °C to +60 °C
Coil Duty Rating:	Continuous from 85 % to 115% of nominal voltage
Current Draw at 20 °C (68 °F):	2.22 amps at 12 V DC 1.13 amps at 24 V DC
Minimum Pull-in Voltage:	85 % of nominal
Fluids:	Mineral-based or synthetics with lubrication properties
Viscosity:	7.4 to 420 cSt
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
Material:	Valve body: carbon steel Spool: carbon steel Seals: Nitrile (standard) FKM (optional) Steel/Polyamide
Cavity:	FC10-4
Weights:	Valve complete: 480 g Coil only: 230 g

DIMENSIONS



MODEL CODE

WK10R-01 M - C - N - 24 DG

Basic model

Option

Omission = No Option
M = Manual Override

Body & 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 = Nitrile
V = FKM

Coil Voltage

DC

10 = 10 V DC
12 = 12 V DC
24 = 24 V DC
36 = 36 V DC
48 = 48 V DC
110 = 110 V DC available with termination DG only

AC (internally full wave rectified)

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

Coil Connector

DC: DG = DIN Connector (DIN 43650)
DS = Dual Spade SAEJ858a
DL = Leadwires (2) - 457 mm (18") long
DW = Weather Pack Connector on leadwires - 241 mm (9.5") long
DK = Kostal Connector
DT = 2-pole AMP Junior Timer plug

AC: AG = DIN Connector (DIN 43650)

Standard models

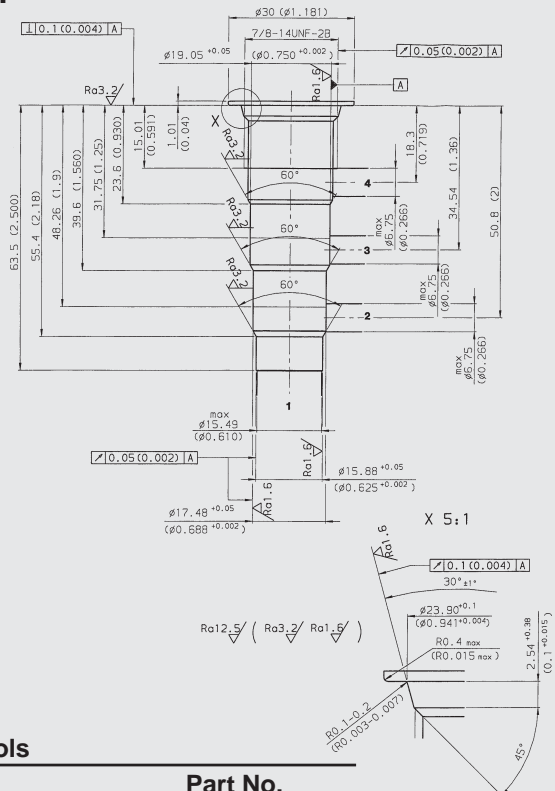
Model code	Stock no.
WK10R-01-C-N-24DG	3097259
WK10R-01-C-N-230AG	3097260

*Standard Line Bodies

Code	Stock no.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	1/2 BSP	420 bar
FH104-SS8	3037868	Steel, zinc-plated	SAE-8	420 bar
FH104-AB3	3038097	Aluminium, clear anodized	1/2 BSP	245 bar
FH104-AS8	3038110	Aluminium, clear anodized	SAE-8	245 bar

CAVITY

FC10-4

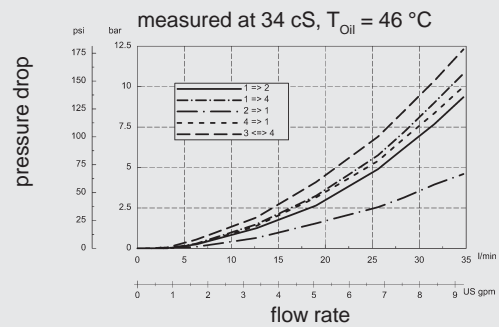


Form tools

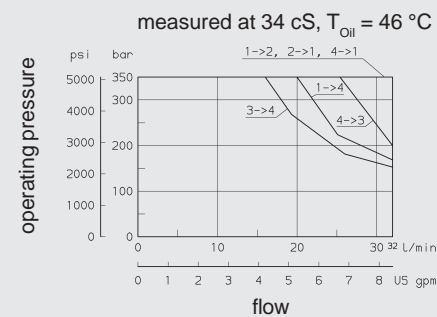
Tool	Part No.
Rougher FC10-4	in preparation
Finisher FC10-4	in preparation

millimeter (inch)
Subject to technical modifications

PERFORMANCE



OPERATING LIMITS



HYDAC Fluidtechnik GmbH

Justus-von-Liebig-Str.
D-66280 Sulzbach/Saar
Tel: 0 68 97 /509-01
Telefax: 0 68 97 /509-598
E-Mail: flutec@hydac.com