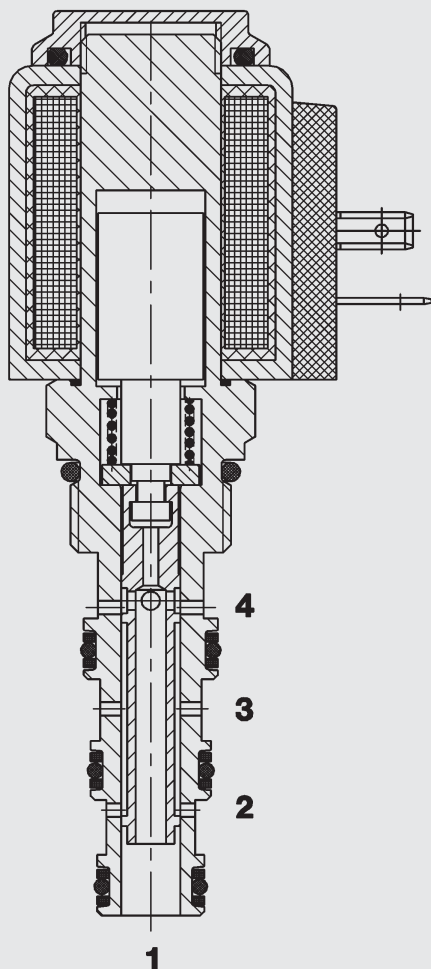


FUNCTION



In the de-energized mode, the valve allows flow bidirectionally between ports 2 and 3 and ports 1 and 4. When energized, the valve allows flow bidirectionally between ports 3 and 4 and ports 1 and 2.

4/2-Solenoid Directional Valve SAE 8-Cartridge – 350 bar

UNF

WK08X-01
SPOOL Type - Direct Operated

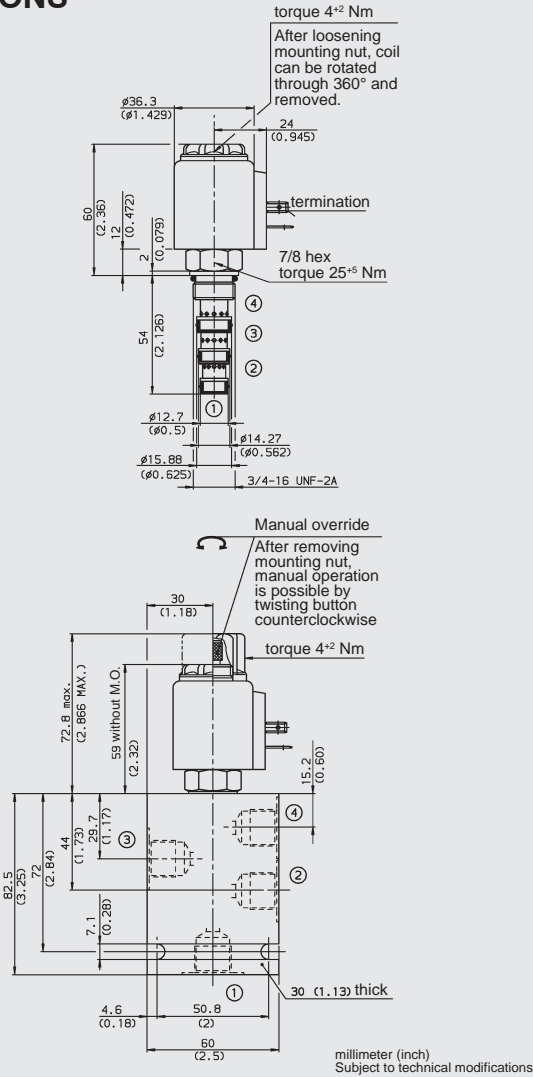
FEATURES

- 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 due to CFD optimized flow-path

SPECIFICATIONS

Operating pressure:	max. 350 bar
Proof pressure:	520 bar
Nominal flow:	max. 17 l/min Consult HYDAC for flow ratings above 207 bar
Internal leakage:	90 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
Fluids:	Hydraulic oil to DIN 51524 part 1 and 2
Viscosity:	min. 7.4 mm ² /s up to max. 420 mm ² /s
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
Installation:	optional
Material:	Valve body: high tensile steel Spool: hardened and ground steel Seals: NBR (standard) FKM (optional) Support rings: PTFE Coil: Steel/Polyamide
Cavity:	FC08-4
Weights:	Valve complete: 0.38 kg Coil only: 0.19 kg
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
Pull-in voltage:	± 15 % of nominal voltage
Coil duty rating:	Continuous up to 115% of nominal voltage at 60 °C ambient temperature

DIMENSIONS



MODEL CODE

WK08X-01 M - C - N - 24 DG

Designation
Directional spool valve UNF
Cavity 08-4 = 4 way cavity
Function code
Type 01 = standard

Option
Omission = No option
M = Manual override

Body and Ports*
C = Cartridge only
SB3 = 3/8 BSP ports, steel body
AB3 = 3/8 BSP ports, aluminium body

Seals
N = NBR
V = FKM

Coil Voltage
DC

12 = 12 V DC
24 = 24 V DC

AC (internally full wave rectified)

115 = 115 V AC
230 = 230 V AC
other voltages on request

Coil Connector

DC: DG = DIN Connector to EN 175301-803
DL = Leadwires (2) - 457mm, (18") long
DW = Weather Pack Connector on leadwires - 241 mm (9.5") long
DT = AMP Junior Timer, 2-pole, radial
DK = Kostal threaded connection M27x1

AC: AG = DIN Connector to EN 175301-803
other connection types on request

Standard models

Model code	Part no.
WK08X-01-C-N-24DG	3021149
WK08X-01-C-N-230AG	3044054

other models on request

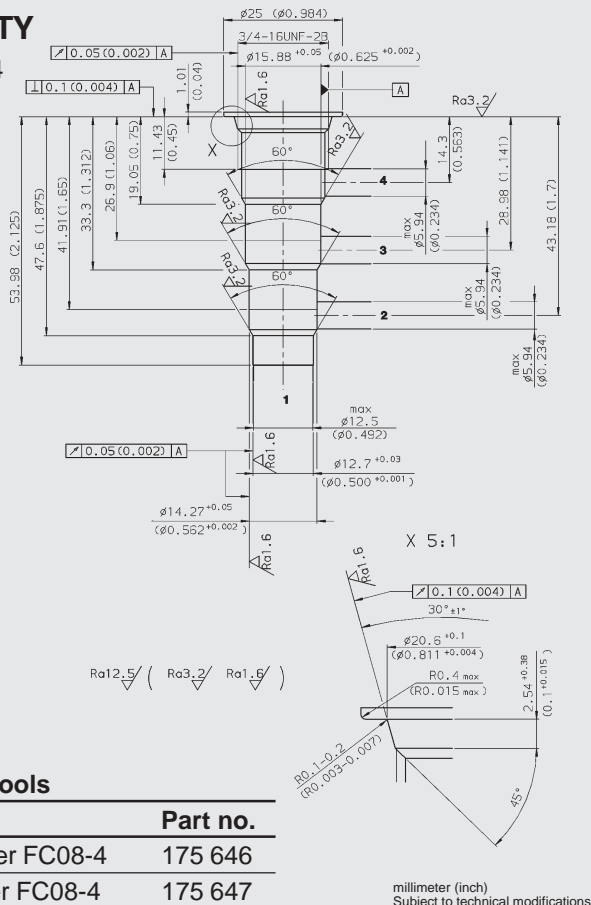
* Inline connection housings

Code	Part no.	Material	Ports	Pressure
FH084-SB3	563383	Steel, zinc-plated	3/8 BSP	420 bar
FH084-AB3	3011407	Aluminium, clear anodized	3/8 BSP	245 bar

other housings on request

CAVITY

FC08-4

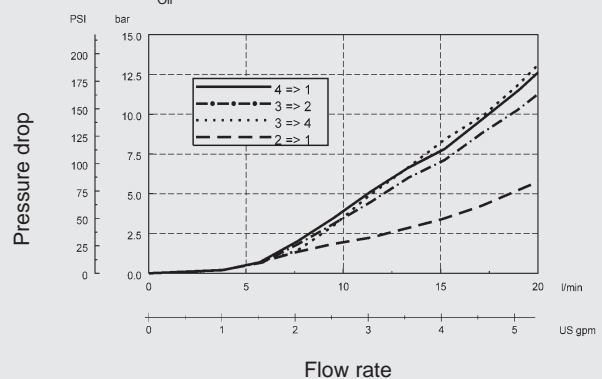


Form tools

Tool	Part no.
Rougher FC08-4	175 646
Finisher FC08-4	175 647

PERFORMANCE (Cartridge Only)

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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