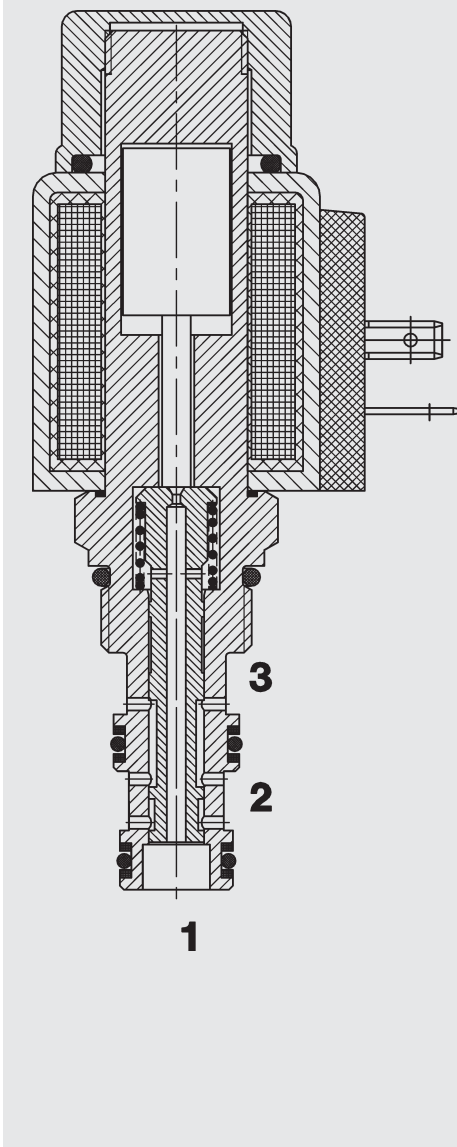


FUNCTION



In the de-energized mode, the valve allows flow bidirectionally between ports 2 & 3, while blocking flow at 1. When energized, the valve allows flow bidirectionally between ports 1 & 2, while blocking flow at 3.

3/2-Solenoid Directional Valve UNF SAE 8-Cartridge - 350 bar

WK08D-01
SPOOL Type - Direct Operated

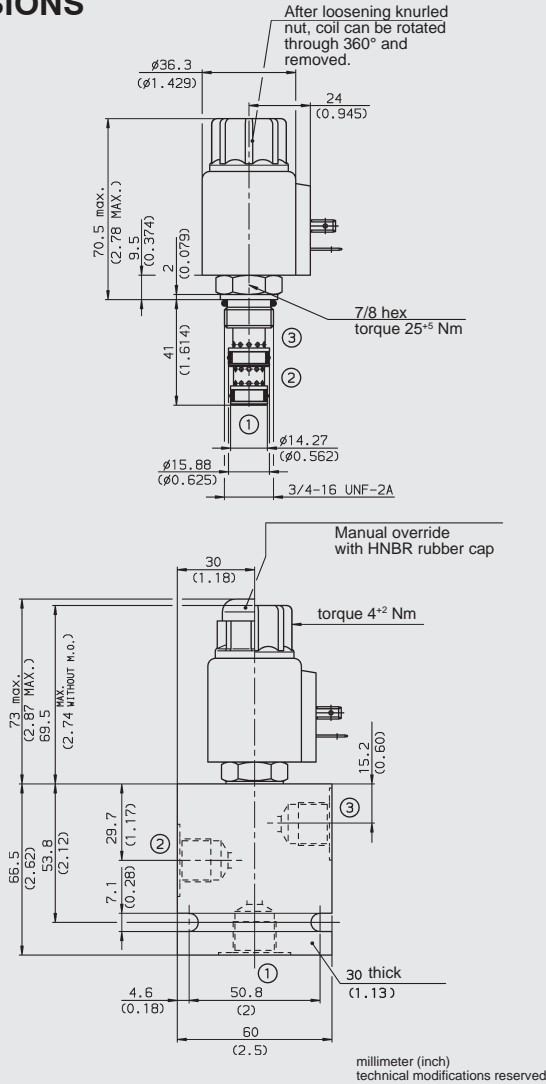
FEATURES

- 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:	350 bar
Proof pressure	520 bar
Nominal flow:	19 l/min Consult factory 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 (Option) Support ring: PTFE
Cavity:	FC08-3
Weights:	Valve complete: 0.37 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
Voltage tolerance:	±15 % of nominal voltage
Switch-on time:	Continuous up to 115 % of nominal voltage at 60 °C ambient temperature

DIMENSIONS



MODEL CODE

WK08D-01 M - C - N - 24 DG

Desination Directional spool valve UNF
Cavity 08
Function code D
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

Coil Connector
DC: DG = DIN Connector to EN 175301-803
DK = Kostal threaded connection M27x1
DL = Leadwires (2) - 457mm, (18") long
DN = Deutsch connector, 2 pole
DT = AMP Junior Timer, 2-pole, radial
AC: AG = DIN Connector to EN 175301-803

other connection types on request

Standard models

Model code	Part no.
WK08D-01-C-N-24DG	3020504
WK08D-01-C-N-230AG	3043904

other models on request

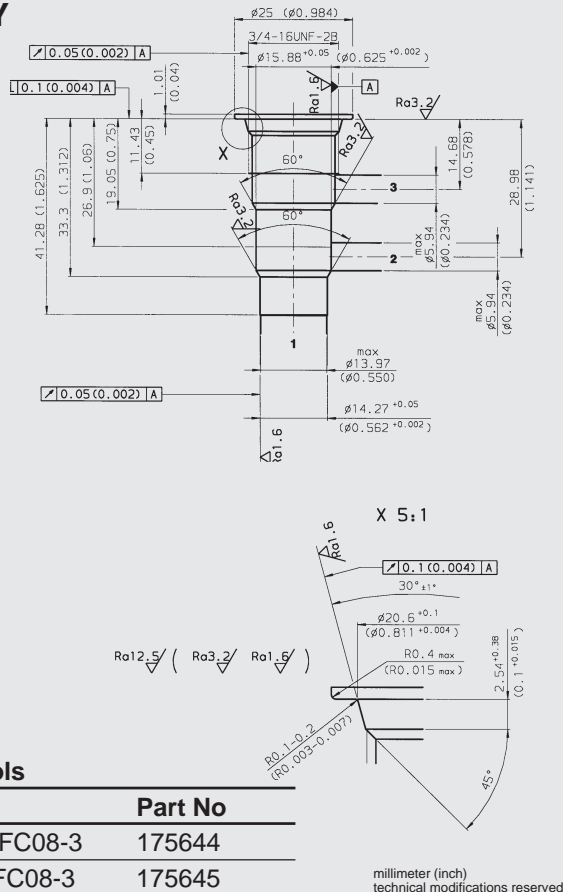
Inline connection housings

Code	Part No	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	3/8 BSP	420 bar
FH083-AB3	3011427	Aluminium, clear anodized	3/8 BSP	245 bar

other housings on request

CAVITY

FC08-3

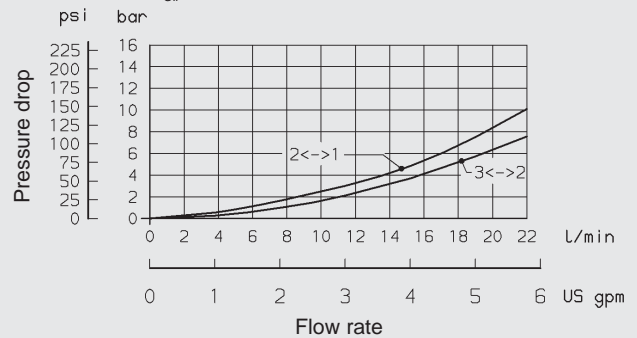


Form tools

Tool	Part No
Rougher FC08-3	175644
Finisher FC08-3	175645

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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