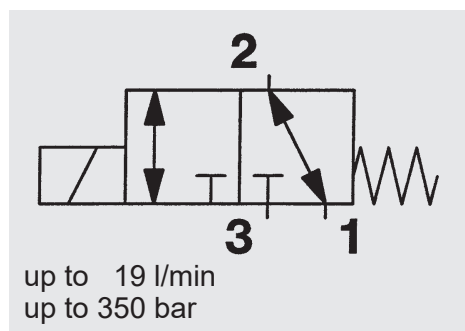
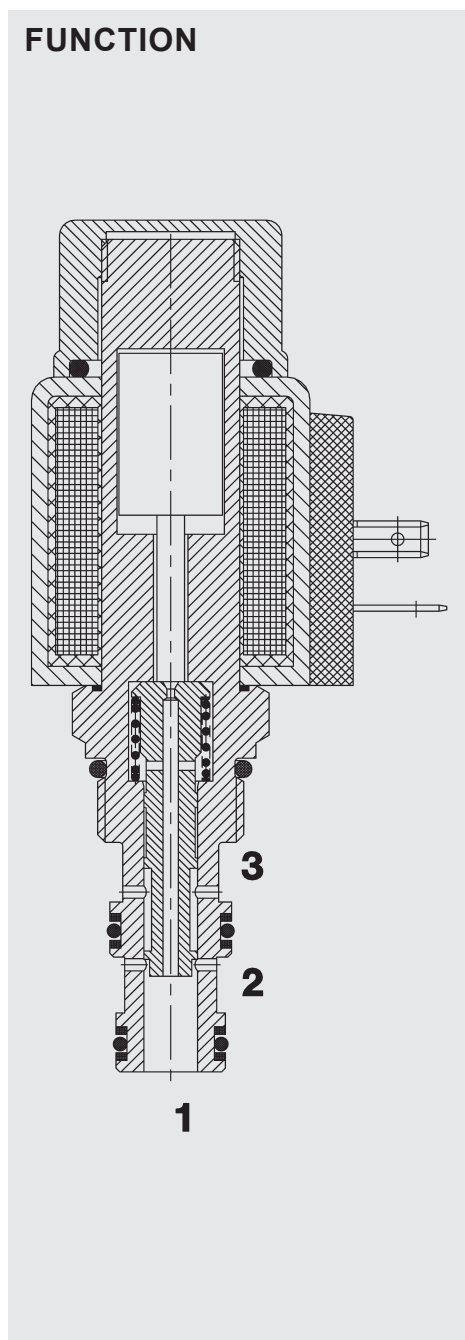




FUNCTION



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

3/2 Solenoid directional Valve spool type, direct-acting UNF Cartridge – 350 bar WK08C-01

FEATURES

- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1000 h Salt spray test)

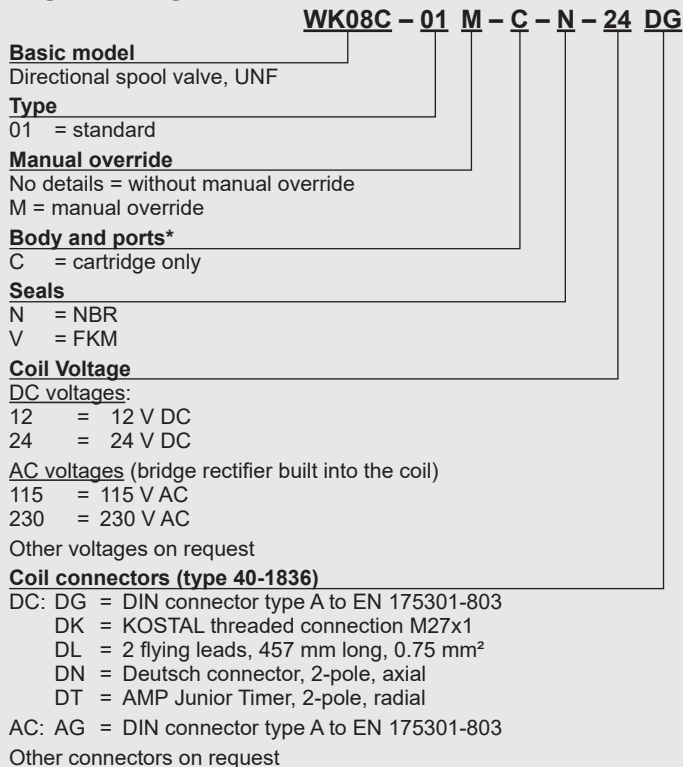
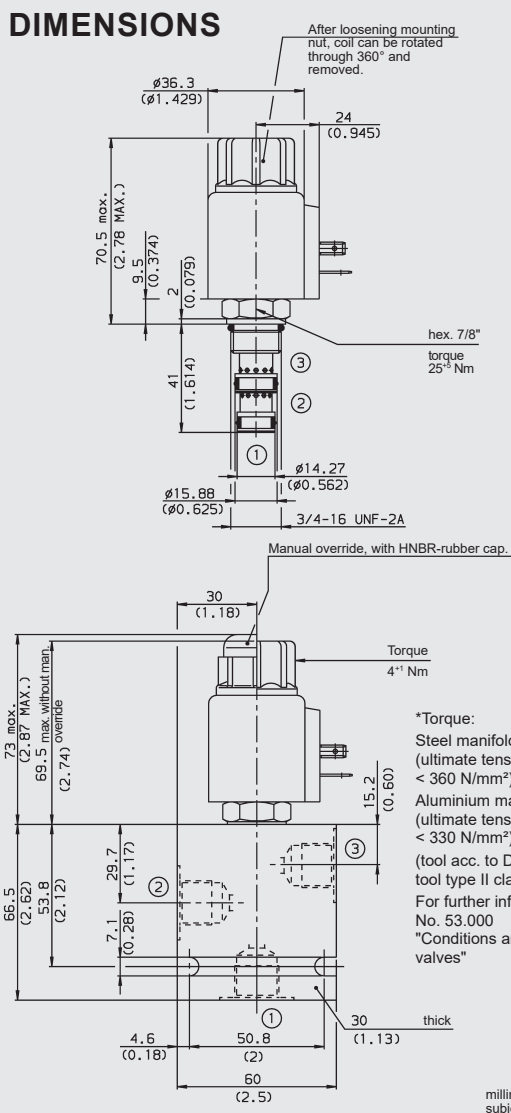
SPECIFICATIONS*

Operating pressure:	max. 350 bar
Nominal flow:	max. 19 l/min
Internal leakage:	max. 130 ml/min at 210 bar and 36 mm ² /s
Media operating temperature range:	min. -20 °C to max. +120 °C
Ambient temperature range:	min. -20 °C to max. + 60 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s
Filtration of operating fluid: (to ISO 4406)	p ≤ 210 bar min. class 20/18/15 p > 210 bar min. class 19/17/14
MTTF _d :	150 - 1200 years, according to DIN EN ISO 13849-1
Material:	Valve body: steel Piston: 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:	FC08-3
Weight:	Valve complete 0.37 kg Coil only 0.19 kg

Electrical data

Response time: (at p _{max} , Q _{max} , v = 34 mm ² /s)	energized: approx. 20 - 85 ms de-energized: approx. 40 - 80 ms substantially extended response times possible at other operating conditions
Type of voltage:	DC: direct current solenoid AC: alternating current solenoid with 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 the nominal voltage
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature
Coil type:	Coil...-40-1836

* see "Conditions and instructions for valves" in brochure 53.000

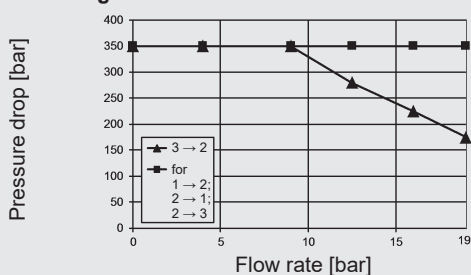
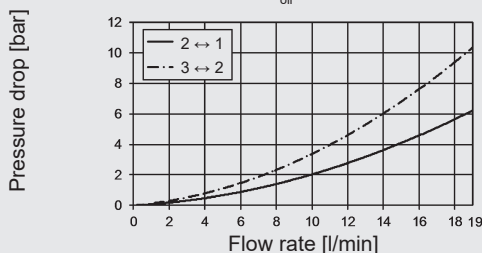


Model code	Part No.
WK08C-01-C-N-12DG	3020375
WK08C-01-C-N-24DG	3020388
WK08C-01-C-N-230AG	3043889

Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8"	350 bar
FH083-AB3	3011427	Aluminium, anodized	G3/8"	210 bar

Code	Material	Part No.
FS UNF 08/N	NBR	3651385
FS UNF 08/V	FKM	3651356

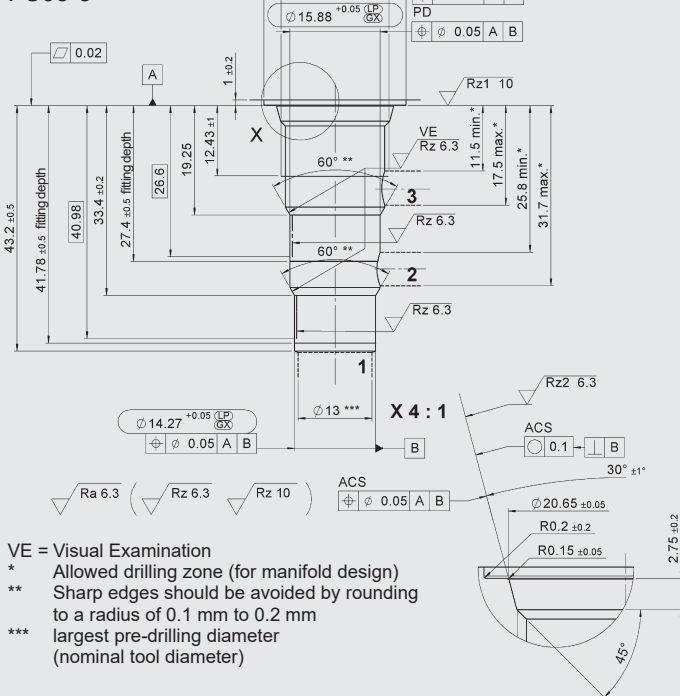
measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{\text{oil}} = 46 \text{ }^\circ\text{C}$



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.

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str.
D-66280 Sulzbach/Saar
Tel: 0 68 97 /509-01
Fax: 0 68 97 /509-598
E-Mail: valves@hydac.com

FC08-3



Tool	Part No.
Countersink	175644
Reamer	175645