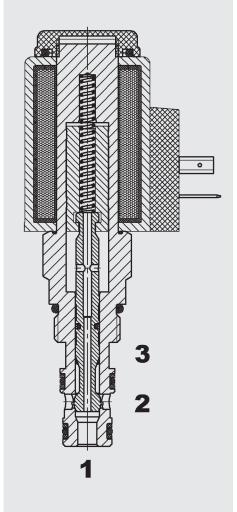
YDAC INTERNATIONAL

up to 22 l/min up to 350 bar

FUNCTION



The directional valve is an electromagnetically actuated, directacting 3/2 poppet valve.

When de-energized, there is free flow through the valve from port 2 to port 3. Port 1 is closed. When energized, the valve allows flow from port 1 to 2, while blocking flow at port 3.

3/2 solenoid directional valve poppet type, direct-acting **UNF Cartridge – 350 bar**

WS08C-01

FEATURES

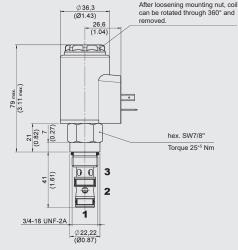
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1000 h Salt spray test)

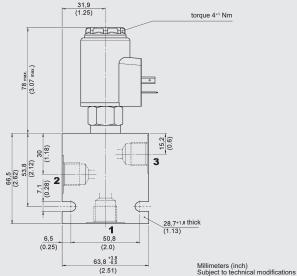
SPECIFICATIONS*

<u> </u>				
Operating pressure:	max. 350 bar			
Nominal flow:	max. 22 l/min	max. 22 l/min		
Internal leakage:	leak-free			
	max. 5 drops/m	in at 350 bar		
Media operating temperature range	min20 °C to n	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to n	min20 °C to max. + 60 °C		
Operating fluid:	Hydraulic oil to	Hydraulic oil to DIN 51524 part 1, 2 and 3		
Viscosity range:	min. 7.4 mm²/s	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration: (to ISO 4406)		≤ 210 bar: min. class 20/18/15 > 210 bar: min. class 18/16/13		
MTTF _d :		150 - 1200 years, according to DIN EN ISO 13849-1		
Installation:	no orientation re	estrictions		
Materials:	Valve body:	steel		
	Piston	hardened and ground steel		
	Seals:	NBR (standard) FKM (optional, fluid temperature range -20 °C to +120 °C)		
	Back-up rings:	PTFE		
	Solenoid coil:	steel / polyamide		
Cavity:	FC08-3			
Weight:	Coil only:	0.23 kg		
	Valve complete:	: 0.49 kg		
Electrical data	'			
Type of voltage:	AC: alternating	DC: direct current solenoid AC: alternating current solenoid with a bridge rectifier built into the coil		
Current draw at 20 °C:	2.22 A at 12 V D	2.22 A at 12 V DC		
	1.13 A at 24 V DC			
Voltage tolerance:	± 15 % of nomir	± 15 % of nominal voltage		
Coil duty rating:	Continuous up t	Continuous up to 115 % of the nominal voltage at max. 60 °C ambient temperature		
Response time:	On:			
Coil type:	Coil50-1836			
* soo "Conditions and instructions for valves"				

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

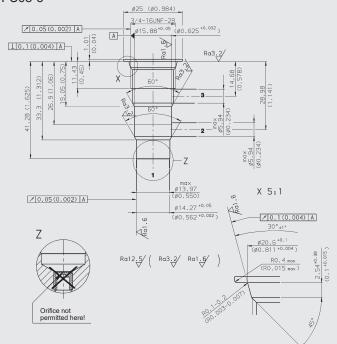
EN **5.907.4**.1/06.21





CAVITY

FC08-3



Form tools

Tool	Part No.
Countersink	175644
Reamer	175645

Millimeters (inch) Subject to technical modifications

MODEL CODE

Basic model
Directional poppet valve Type 01 = standard Body and ports*

WS08C - 01 - C - N - 24 DG

Seals N =

= NBR

= FKM (optional)

= cartridge only

Coil voltage

DC voltage 12 = 12 VDC

= 24 VDC

AC voltage (bridge rectifier built into the coil)

115 = 115 V AC 230 = 230 V AC

Other voltages on request

Coil connectors (type 50-1836)

DC: DG = DIN connector to EN 175301-803

DK = KOSTAL threaded connection M27x1

DL = 2 flying leads, 457 mm long, 0.75 mm²

DN = Deutsch connector, 2-pole, axial

DT = AMP Junior Timer, 2-pole, radial

AC: AG = DIN connector to EN 175301-803 Other connectors on request

Standard models

Code	Part No.
WS08C-01-C-N-12DG	3778047
WS08C-01-C-N-24DG	3778048
Other models on request	'

*Standard Line Bodies

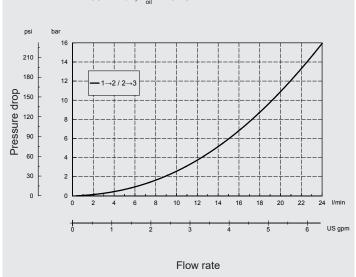
Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8"	350 bar
FH083-AB3	3011427	Aluminium, anodized	G3/8"	210 bar
Other models o	n request			

Seal kits

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

TYPICAL PERFORMANCE

measured at $v = 33 \text{ mm}^2/\text{s}$, $T_{oil} = 46 ^{\circ}\text{C}$



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.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: +49 (0)68 97 /509-01

Fax: +49 (0)68 97 /509-598 Email: valves@hydac.com