

DIRECTIONAL CONTROL BANKABLE VALVE



Directional control bankable valve CD5 with single or double solenoid.

- Centring achieved by means of calibrated length springs which immediately reposition the spool in the neutral position when the electrical signal is shut off.
- Emergency control.
- Threaded ports sizes G1/2"
- Coils protection IP66
- Standard connectors DIN 43650 ISO 4400 and Deutsch
- Maximum flow until 80 l/min.
- Cast iron zinc plated body.

ORDERING CODE

CD	Directional control bankable valve
5	Size
N	Body parallel, ports G1/2"
E	Electrical operator
**	Spool (tab.2)
*	Mounting (tab.3)
*	Voltage (tab.4)
**	Variants (tab.5)
1	Serial No.

FEATURES

Max. pressure ports P/A/B/T	310 bar
Max. pressure port T	250 bar
Max. Flow	80 l/min
Max excitation frequency	3 Hz
Duty cycle	100% ED
Hydraulic fluid	DIN 51524 Mineral oils
Fluid viscosity	10 ÷ 500 mm ² /s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level (filter β ₂₅ ≥ 75)	ISO 4406:1999: class 21/19/16 NAS 1638: class 10
Weight with one solenoid	2.68 kg
Weight with two solenoids	3.07 kg

ORDERING CODE

Tab.1 - Standard spools

Two solenoids, spring centred "C" Mounting			
Code		Covering	Transient position
01		+	
03		+	

One solenoid, side A "E" Mounting			
Code		Covering	Transient position
01		+	
03		+	

One solenoid, side B "F" Mounting			
Code		Covering	Transient position
01		+	
03		+	

Tab.2 - Mounting

Code	Symbol
C	
E	
F	

Tab.3 - 40W coils D15 voltage (1)

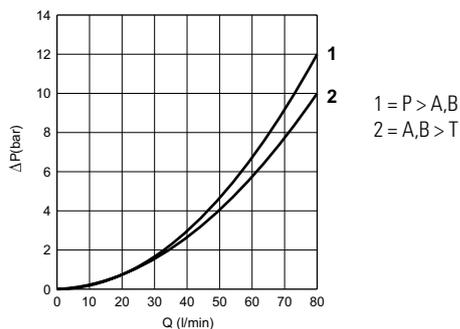
Code	Voltage	Max. winding temperature (Ambient temperature 25°C)	Rated power W	Resistance @ 20°C (Ohm) ±10%
L	12 Vdc	135 °C	40	3.6
M	24 Vdc	135 °C	40	14.4
W (2)	Without coils			

Tab.4 - Variants (1 - 4)

Code	Variant
S1	No variant
SV	Viton
ES	Emergency button (see page 89)
P2 (3)	Rotary emergency button (see page 89)
R5 (3)	Rotary emergency b. 180° (see page 89)
CZ	Deutsch DT04-2P - 40W connection (see page 110)

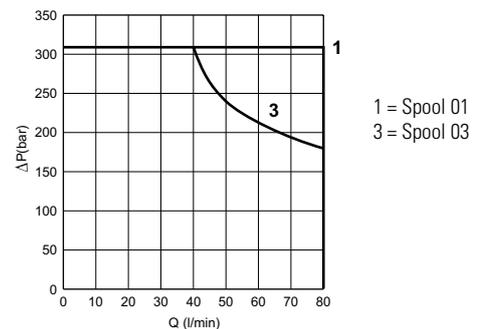
- (1) Connector to be ordered separately, see page 105
Coils technical data, see page 110
Voltage codes are not stamped on the plate, their are readable on the coils
- (2) Performance are guaranteed only using valves completed with coil
- (3) Tightening torque max. 6-9 Nm (CH n. 22)
- (4) Other variants available on request

PRESSURE DROPS



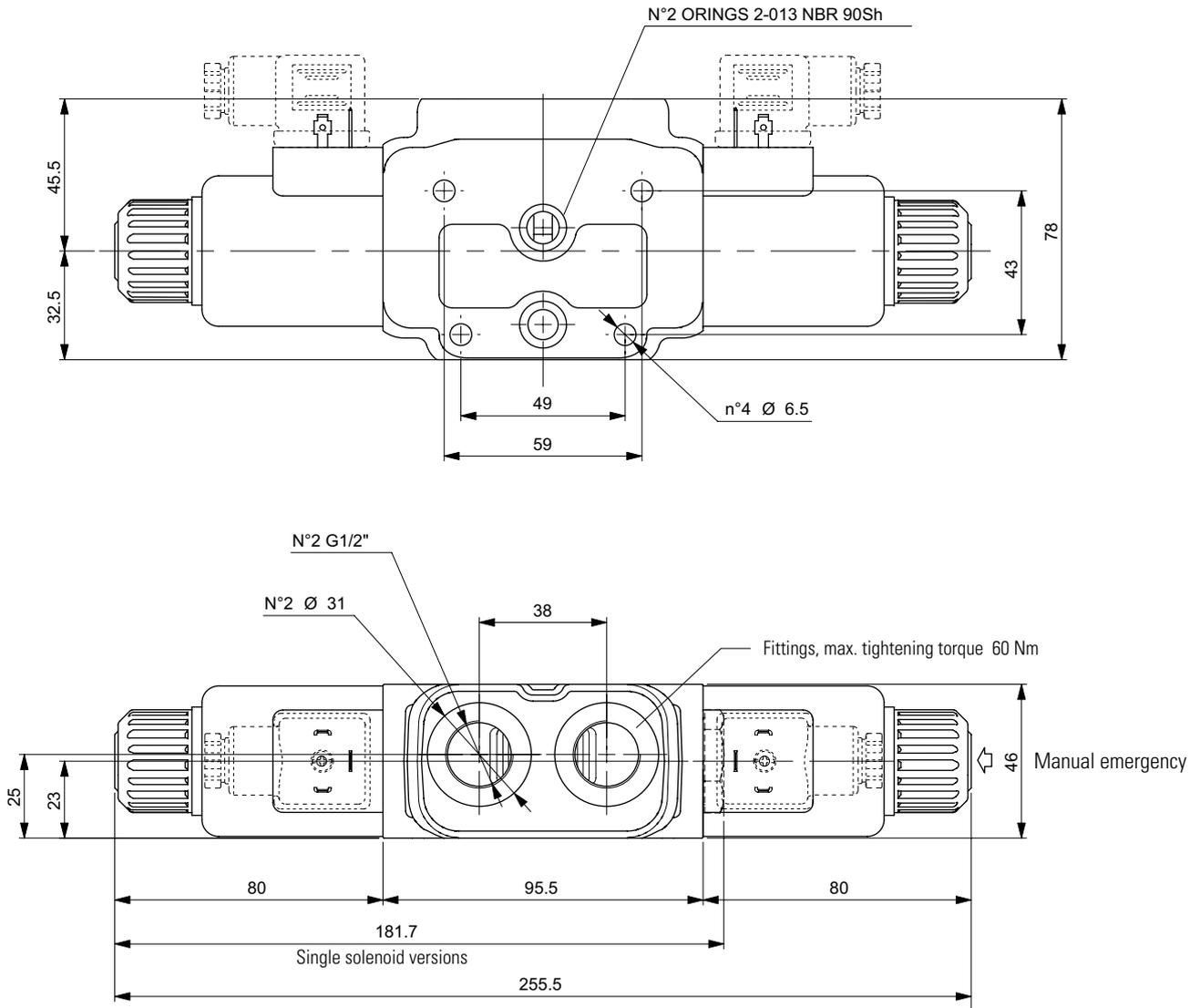
The diagram at the side shows the pressure drop curves for spools during normal usage.
The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40 C°; the tests have been carried out at a fluid temperature of 40 C°.

LIMITS OF USE



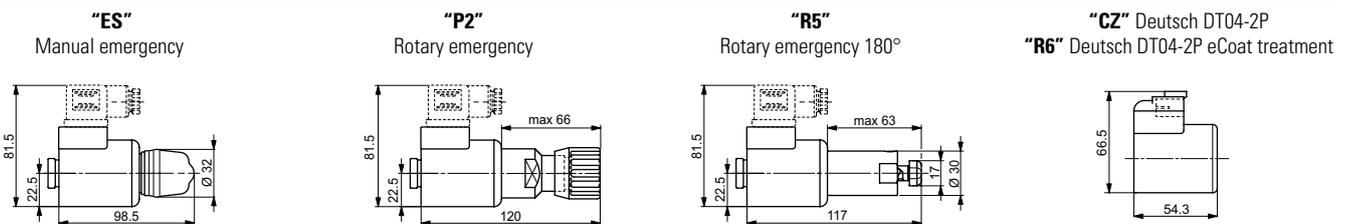
The tests have been carried out with solenoids at operating temperature and a voltage 10% less than rated voltage with a fluid temperature of 50 C°. The fluid used was a mineral oil with a viscosity of 46 mm²/s at 40 degrees C.
Spool 01: in neutral position can have leaks.

OVERALL DIMENSIONS



2

VARIANTS



Emergency P2 and P5, tightening torque max. 6÷9 Nm (CH n. 22)