

# 4/2 directional control valve NG 6 Technical data sheet



# **Advantages**

- + High valve switching safety
- + Dirt resistant
- + Energy saving
- + Easy service
- + Monitored

The valve is specially designed for safety circuits with very high shut down safety. Even after a very long time energized, the valve will switch back to the fail safe posttion with a high reliability. The reason is the high spring force.

General technical data					
MTTFd	150 years				
Mounting position	any				
Weight	Valve complete: 1.8 kg Only solenoid: 0.35 kg				
Hydraulic characteristic	cs				
Operating fluid	Hydraulic oil according to DIN 51524 T1 and T2				
Operating pressure	max. 160 bar				
Max. volume flow	20 l/min				
Fluid temperature	-20 to +60 °C				
Ambient temperature	-20 to +60 °C				
Viscosity range	10 to 300 mm²/s				
Filtering	Permissible contamination of the				

#### Electric characteristics, valve

Nominal voltage at 20 °C	24 V DC				
Nominal current at 20 °C	1.03 A bei 24 V DC				
Electric tension tolerance	±15% nominal tension				
Duty cycle	100 % ED (continuous operation) up to max. 115 % nominal tension at 60 °C ambient temperature				
Switching on time	≤ 40 ms				
Switching off time	≤ 20 ms @ -25V				

operating fluid ISO 4406 class 21/19/16 or cleaner

# Electric characteristics, position sensor

Туре	NAMUR				
Signal type					
Switching function	Normally closed contact				
Nominal voltage	8.2 V				
Signal (not activate)	≥ 2.2 mA				
Signal (activate)	≤ 1 mA				
Connection	Connector plug M12x1, 4 pole				
Pin configuration	Pin 1: L+; Pin 2: L-				

# **Symbol**

# 85

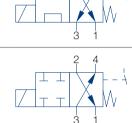


272









Symbol, pin configuration sensor



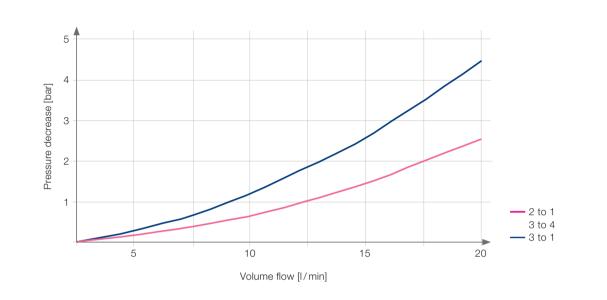
#### **Features**

- Very high valve switching safety due to high spring return forces
- · Change of the sensor under system pressure
- · Very resistant to dirt
- · Energy saving through low flow resistance
- · Easy service: solenoid can be changed without leakage while the valve is under system pressure; no tools are required
- Solenoids can be rotated 3 x 90°, allowing alternative connector positions
- 100 % ED

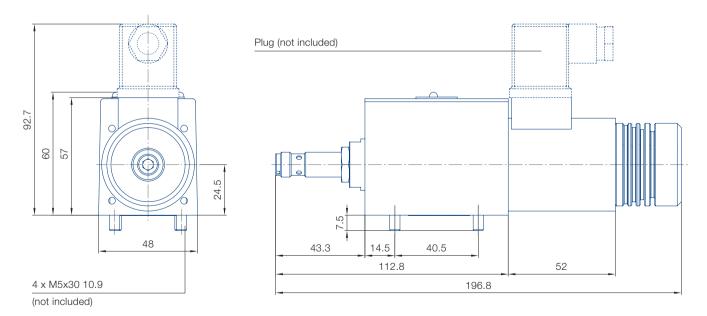
## **Options**

- · Alternative voltages
- · ATEX variants possible



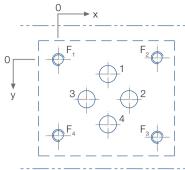


# **Dimensional drawing**



Dimensions in mm

## Port connection pattern



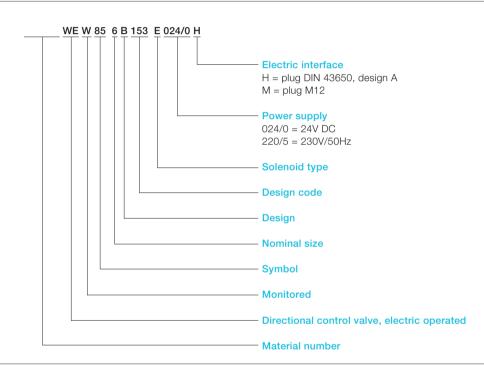
	4	3	1	2	F <sub>1</sub>	<b>F</b> <sub>2</sub>	<b>F</b> <sub>3</sub>	$F_4$
Ø max [mm]	7.5	7.5	7.5	7.5	-	_	-	-
x [mm]	21.5	12.7	21.5	30.2	0	40.5	40.4	0
y [mm]	25.9	15.5	5.1	15.5	0	-0.75	31.75	31

F: M5, thread depth min. 1.5 x Ø

Dimensions in mm

View: fastening side of mounting plate

Type code



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