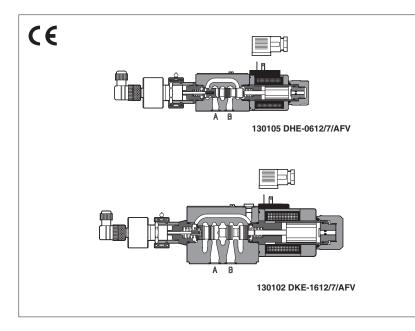


Safety valves for vertical presses and torque bar press brakes

with specific spool execution and inductive position switch **Available only on request**



Directional safety valves specifically designed for applications in vertical presses and torque bar press brakes, are provided with ON-OFF inductive position switch FV (double contacts NC/NO) indicating the position of the valve's spool

They are mainly used to intercept the hydraulic line to the beam cylinders in emergency conditions, in order to immediately stop their movement, particularly during the pressing phase.

At this subject the spool configuration is specifically designed to fulfill the particular application requirements.

By checking the position switch status, the machine controller can perform the safety function.

They are available in five different sizes: - **130105 DHE**: size 06, direct

max flow 50 l/min - 130102 DKE: size 10, direct

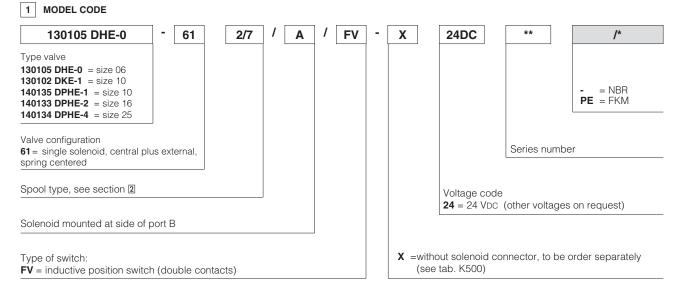
max flow 150 l/min - **130135 DPHE-1**: size 10, direct

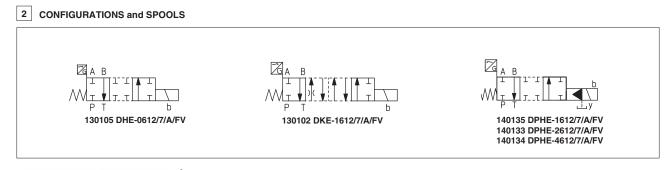
max flow 160 l/min - **130133 DPHE-2**: size 10, direct

max flow 300 l/min - **130134 DPHE-4**: size 10, direct,

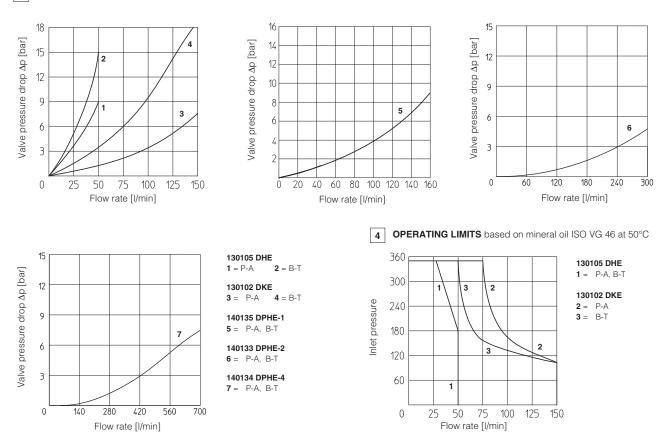
max flow 700 l/min Max pressure: **350 bar**

See the below section 4 for detailed p/Q performance limits.





3 Q/AP DIAGRAMS based on mineral oil ISO VG 46 at 50°C



5 MAIN CHARACTERISTICS

Installation position		Any position		
Subplate surface finishing		Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)		
Ambient temperature		from -20°C to +70°C		
Fluid		Hydraulic oil as per DIN 51524 535; for other fluids see section 1		
Recommended viscosity		15 ÷ 100 mm²/s at 40°C (ISO VG 15 ÷ 100)		
Fluid contamination class		ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 μm (β10≥75 recommended)		
Fluid temperature		-20°C +60°C (standard seals) -20°C +80°C (/PE seals)		
Flow direction		As shown in the symbols of tables 2		
Operating pressure	DHE	P, A, B = 350 bar T = 210 bar		
	DKE	P, A, B = 350 bar T = (with Y port not connected to tank) 210 bar T = (with Y port drained to tank) 250 bar		
	DPHE	P, A, B, X = 350 bar T = 250 bar Ports Y = 0 bar Minimum pilot pressure for correct operation is 8 bar		
Maximum flow	DHE	50 l/min see technical table E015, section 9, operating limits		
	DKE	150 l/min see technical table E025, section 9, operating limits		
	DPHE	DPHE-1: 160 I/min; DPHE-2: 300 I/min; DPHE-4: 700 I/min;		

5.1 Coils characteristics

Insulation class	H (180°C) Due to the occuring surface temperatures of the solenoid coils, the European standards EN ISO 13732-1 EN ISO 4413 must be taken into account
Connector protection degree	IP 65
Relative duty factor	100%
Supply voltage and frequency	See electric feature 6
Supply voltage tolerance	± 10%

WARNING: the inobservance of following prescriptions invalidates the certification and may represent a risk for personnel injury

Safety valves must be installed and commissioned only by qualified personnel Safety valves must not be disassembled

The inductive proximity switch or the position switch can be adjusted only by the manufacturer Valve's components cannot be interchanged The valves must operate without switching shocks and spool / poppet vibrations

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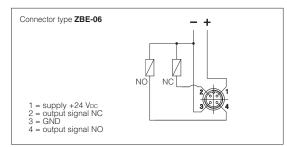


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6 TECHNICAL CHARACTERISTICS OF INDUCTIVE PROXIMITY AND POSITION SWITCHES

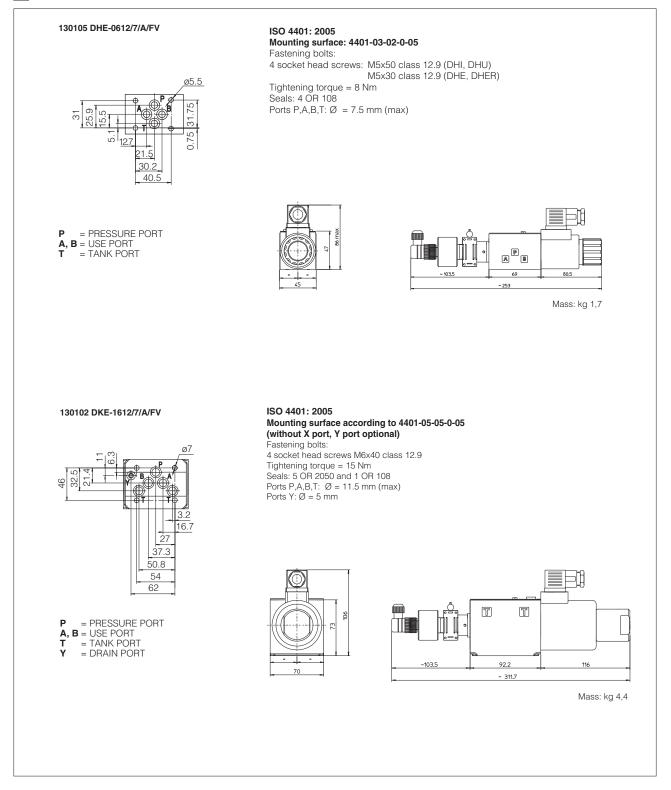
Type of switch		position switch /FV
Supply voltage	[V]	20÷32
Ripple max	[%]	≤ 10
Max current	[mA]	400
Power consumption	[mA]	-
Voltage drop	[V]	-
Max switching frequency	[Hz]	-
Max peak pressure	[bar]	400
Mechanical life		virtually infinite
Switch logic		PNP

7 CONNECTING SCHEMES OF POSITION SWITCHES



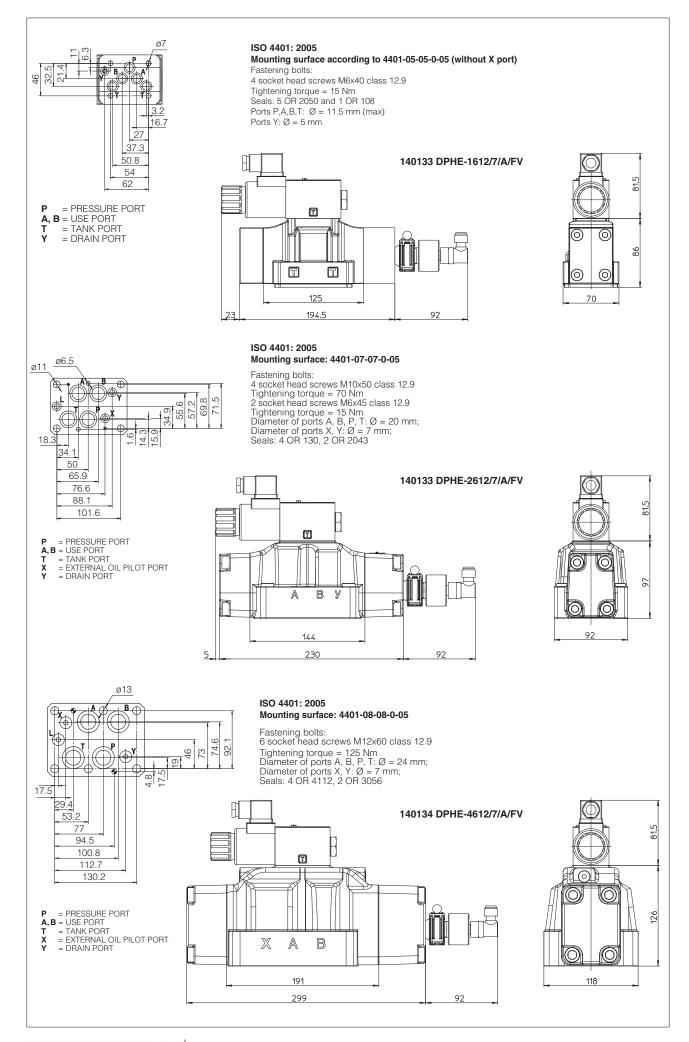
NOTE: the /FV position switch are not provided with a protective earth connection

8 DIMENSIONS [mm]



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