

## ISO 03 HYDRAULIC VALVES type HD3-ES/10 DIRECTIONAL CONTROL - SOLENOID OPERATED

- 4-way solenoid operated directional valves
- ISO 03 interface
- Oil immersed solenoids for AC and DC current
- Emergency pin for manual override
- Maximum flow rate: 80 l/min
- Maximum pressure (port P-A-B): 350 bar
- Maximum pressure (port T): 160 bar
- 100% duty cycle

0

1

3

4

С

Ν

LL

ML

- Suitable for mineral oil according to ISO 18/16/14 filtration class or better.
- Recommended viscosity range: 10 to 60cSt

a \*\* M



SPOOL TYPE **		ORDERING CODE	
		HD3 – ES – 4 C – *	
	HD3	ISO 03 4-way directional control valve	
P T	ES	Electrically controlled	
	4	Spool type (see table)	
	С	Drive arrangement (see table)	
PT	*	b: only for versions LL, ML, LM solenoid "b"	
DRIVE ARRANGEMENT	B03 — *		
a <b>** </b> b	B03	Coil for HD3-ES valves (plugs according to ISO 4400) Admissible voltage variation: -10% +5%	
	012C	12V DC — 2,8A	
a M	024C	24V DC — 1,4A	

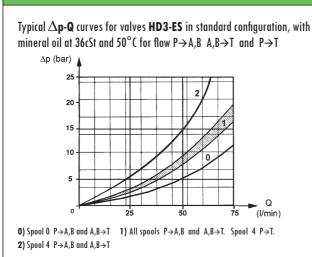
115V 50/60Hz AC - 0,35A

230V 50/60Hz AC - 0.17A

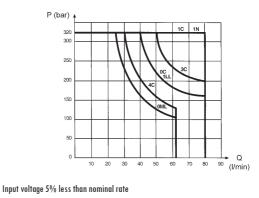
## **TYPICAL DIAGRAMS**

-115A

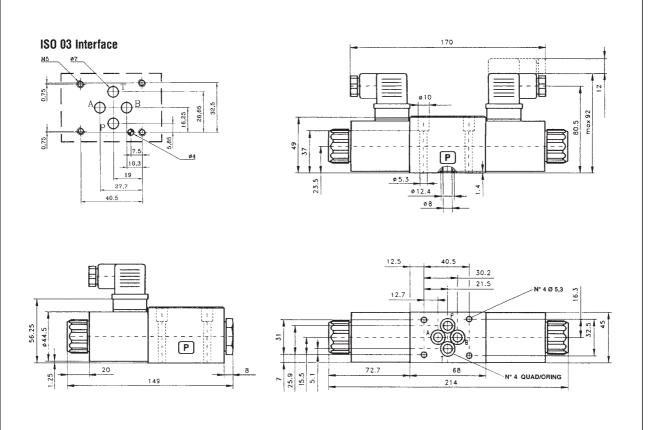
-230A



Typical **p-Q** curves of operating limits for maximum hydraulic power transferred by valves **HD3-ES** 







Fixing bolts: n.4 M5 x 45 (not included) — Tightening torque 8Nm Valve mass: 1,60 kg (with 1 coil) — 2,10 kg (with 2 coils)

Subject to technical and dimensional changes without notice

