

## ISO 03 PROPORTIONAL HYDRAULIC VALVES type HD3-PS DIRECTIONAL CONTROL - SOLENOID CONTROLLED

- 4-way directional valves, proportional electric control
- ISO 03 interface
- Oil immersed solenoids for DC current
- Emergency pin for manual override
- Nominal flow rate: 32 l/min with  $\Delta$  p=10bar
- Maximum pressure (port P-A-B): 320bar
- Maximum pressure (port T): 160bar
- Hysteresis ≤ 6%
- Suitable for mineral oil according to ISO 16/14/12 filtration class or better.
  Recommended viscosity range: 10 to 60cSt

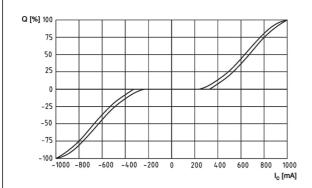


ORDERING CODE					
HD3 — PS — 1PC — R4 / 10					
HD3	ISO 03 4-way directional control valve				
PS	Proportional electric control				
1PC	Spool type and drive arrangement (see table)				
R4	24 DC proportional solenoid - R(20°C)=13,4 $\Omega$ — IMAX=1,0A - The solenoid must be energized by an electronic driver capable of full control of min and max current value. We recommend UED-M15 type (see table ED-M15)				
10	Drawing				

SPOOL TYPE				
1PML	PML a Titum			
1PC				
3РС	3PC a T T T T T T T T T T T T T T T T T T			

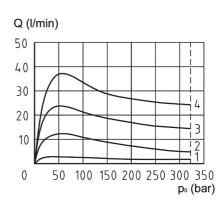
## **TYPICAL DIAGRAM**

Flow characteristics in relation to exciting current for valves HD3-PS in standard configuration, with mineral oil at 35cSt and 50°C with  $\Delta$  p=10bar



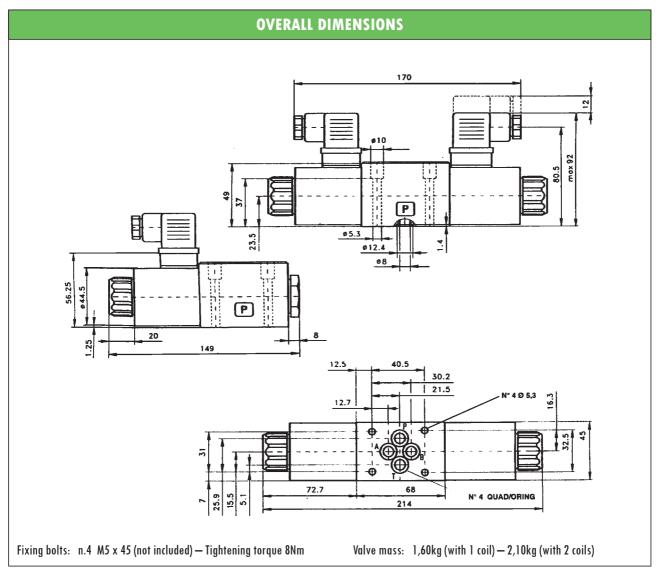
The coil current which initialise the flow through the proportional directional valve can differ with a tolerance range of  $\pm 6\%$ 

Typical p-Q curves of operating limits for HD3-PS valves at different solenoid current values, with mineral oil at 35cSt and 50°C



- 1) 40% solenoid current value 2) 60% solenoid current value
- 3) 80% solenoid current value 4) 100% solenoid current value





Subject to technical and dimensional changes without notice

TYPICAL SECTION					
-1	Body	5	Locking nut		
2	Spool	6	Emergency pin		
3	ISO 4400 plugs (not included)	7	Spring		
4	Solenoid				

