# 2сетор 02

## DIRECTIONAL CONTROL VALVES LEVER OPERATED HD2-LO-\* 30 I/min - 32 MPa (320 bar)

#### 1 DESCRIPTION

The hand operated directional control valves are used mainly to control start, stop and direction of fluid. Manual lever and actuating section can be rotated in 90° increments for flexible installation. The directional control valves are being manufactured as two-position and three-position valves (see table with functional symbols). In the standard version, the valve housing is phosphated and steel parts zinc-coated for 240 h salt spray protection acc. to ISO 9227. Enhanced surface protection for mobile sector available (ISO 9227, 520 h salt spray).

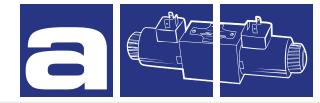
#### 2 ORDERING CODE

(1)		(2)		(3)	(4)		(5)		(6)
HD2	-	LO	-			-		/	10

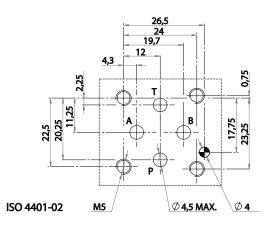
(1) HD2: 4-way directional control valve CETOP 02- Pressure 32 MPa (320bar)

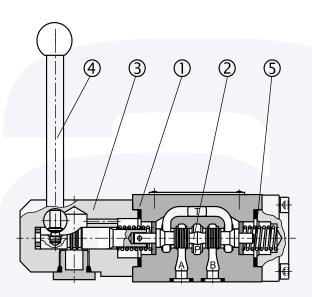
- (2) LO: standard lever operated
- (3) Spool type (see 4) -number is the main spool type
  - -letter is lever and spring arrangement:
    - C: spool is spring centered (3 position)
    - D: spool is detented (3 position)
    - N: spool is detented (2 position, end to end)
    - LL: spool is spring offset (2 position, end to end)
    - ML: spool is spring offset (2 position, middle to end)
- (4) Code reserved for option and variants:
  b: level mechanism on B port side (only for version LL, ML)
- (5) Code reserved for special variants
- (6) Design number (progressive) of the valves

The hydraulic connections that are obtained in the "central" (neutral) position is the characteristic mark of the spool shape and from it derives its identification number: 0 = P,A,B,T connected 1 = P,A,B,T closed 3 = P closed, A,B,T connected for other types see All standard valves have the lever mechanism on the side of port "A". All 2 position, spring offset, standard valves are operated by pulling the lever. All 3 position standard valves have a  $+/15^{\circ}$  angle stroke of the lever. Average effort required on the lever to operate the valve: less than 50 N. Other spool/spring/detent/lever position combinations are possible and they are indicated by a xxx 3 digits code.













## **3** TECHNICAL DATA

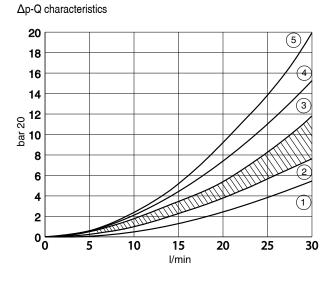
Maximum nominal flow	30 l/min	Pressure drops	see 5	
Maximum rec. flow rate	30 l/min	Installation and dimensions	see 6	
maximum nominal pressure (P,A,B)	32 MPa (320 bar)	Mass	approx 1 kg	
Pressure at T port	10 MPa (100 bar)			
Exception C54 and C55	10 l/min at 320 bar 30 l/min at 100 bar			

### **4** SPOOL IDENTIFICATION AND INTERMEDIATE POSITION TRANSITORIES

1C		1D	
4C		4D	
0C		0D	
8C		8D	
ЗC		3D	
7C		7D	
54C		54D	
55C		55D	
33C		33D	
31C		31D	
1LL		1N	
2LL		2N	
OLL		ON	
1ML			

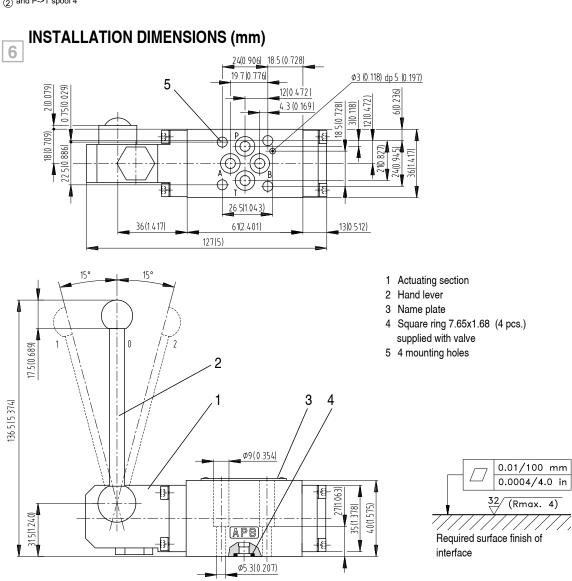






P-> A,P-> B spool 0,8 (1) (3) spool 0, 1, 2, 3, 7, 54, 55, 33, 31 and P->T spool 4

④ A->T,B->T spool 4 P->T spool 54,55 (5) P->A,P->B spool 4



0010

0.01/100 mm 0.0004/4.0 in

