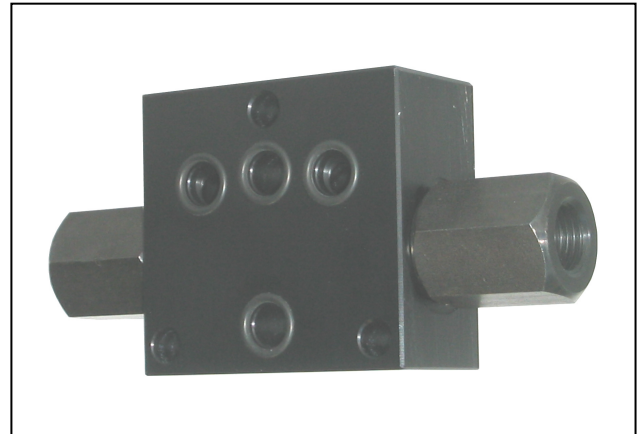
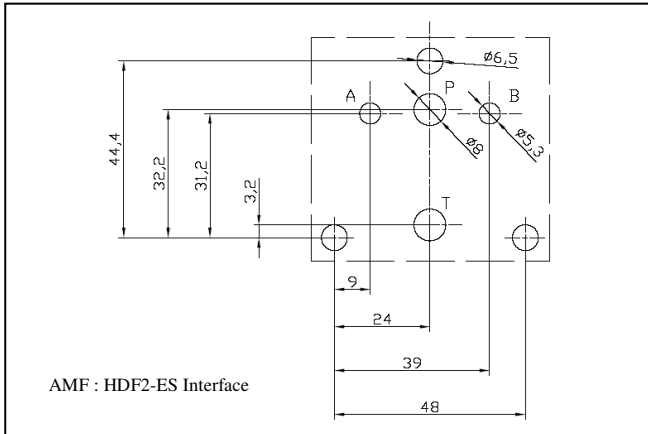
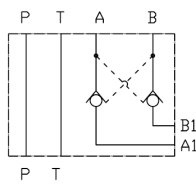


Stackable Valves AMF Pilot Operated Check Valve Type AMF(C)-CP-AB

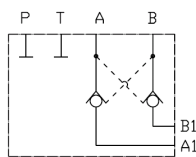


FUNCTIONAL SYMBOLS

AMF-CP-AB



AMFC-CP-AB



DESCRIPTION

Fluid flows freely on P and T lines (AMF-CP-AB).

Fluid is blocked on P and T lines (AMFC-CP-AB).

On service lines A and/or B with p.o. check, fluid flows A → A1 (and/or B → B1) overcoming the force of spring 1 acting on poppet 2 and fluid is blocked A1 → A (and/or B1 → B).

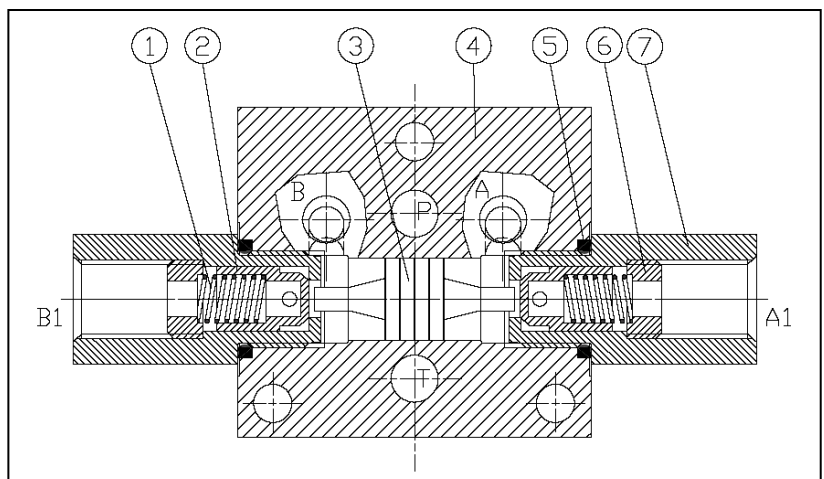
When, by switching the solenoid 4-way directional valve, pressure is made available, at, for instance, port B, fluid flows B → B1 and the pilot piston 3, shifting from its central position, forces poppet 2, on service line A, to open and permit flow A1 → A.

HOW TO READ MODEL CODE FOR VALVES AMF-CP-AB

AMF(C) – CP – AB – * – * / 10

(1) (2) (3) (4) (5) (6) (7)

- (1) AMF: module stackable with 4 way solenoid valve type HDF2-ES (with P and T passing)
- (2) (C) : end of stack module (P and T plugged)
- (3) CP : check valve, pilot operated (hydraulically);
- (4) AB : service lines where the controls operate;
- (5) * : check valve opening pressure for free flow A → A1 and B → B1;
- (6) * : code reserved for options and variants;
- (7) 10 : design number (progressive of the valve);



DATA AND OPERATING LIMITS

Maximum rec. flow rate	20 l/min
Maximum nominal pressure	25 MPa (250 bar)
Pilot area ratio piston/check valve	approx 4.7
Piloting pressure	to shift the pilot piston and to open the check in A the piloting pressure must be, at B :

$$P_p = P_b = \frac{P_{a1} + P_m - P_a}{4.7} + P_a$$

where : P_p = piloting pressure
 P_b = pressure in B
 P_a = pressure in A
 P_{a1} = pressure in A1
 P_m = check valve opening pressure (spring)

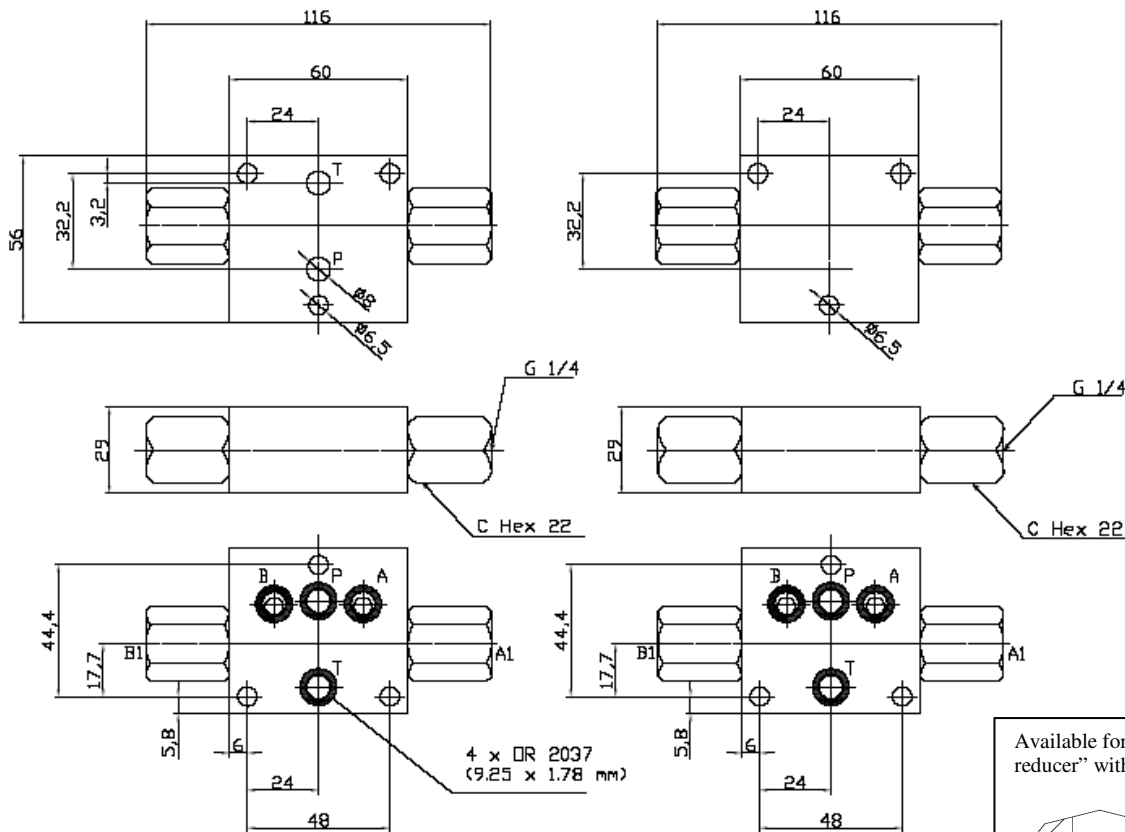
HYDRAULIC FLUIDS

Seals and materials used on standard valves AMF are fully compatible with hydraulic fluids of mineral oil base, upgraded with antifoaming and antioxidantizing agents.
 The hydraulic fluid must be kept clean and filtered to ISO 4406 class 21/18/15, or better, and used in a recommended viscosity range from 10 cSt to 60 cSt.

INSTALLATION DIMENSIONS

AMF-CP-AB

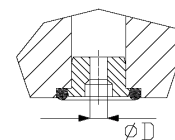
AMFC-CP-AB



A1 = 1/4" BSPP
 B1 = 1/4" BSPP

All dimensions are mm

Available for P and T lines "section reducer" with O ring



D (mm)	CODE
1,0	3S-10
1,5	3S-15
2,0	3S-20
2,5	3S-25