

APPLICATION

Modular control plates **MOD10** are used to construct hydraulic control system on the basis of hydraulic control equipment (directional control valves, valves etc.) with nominal size 10.

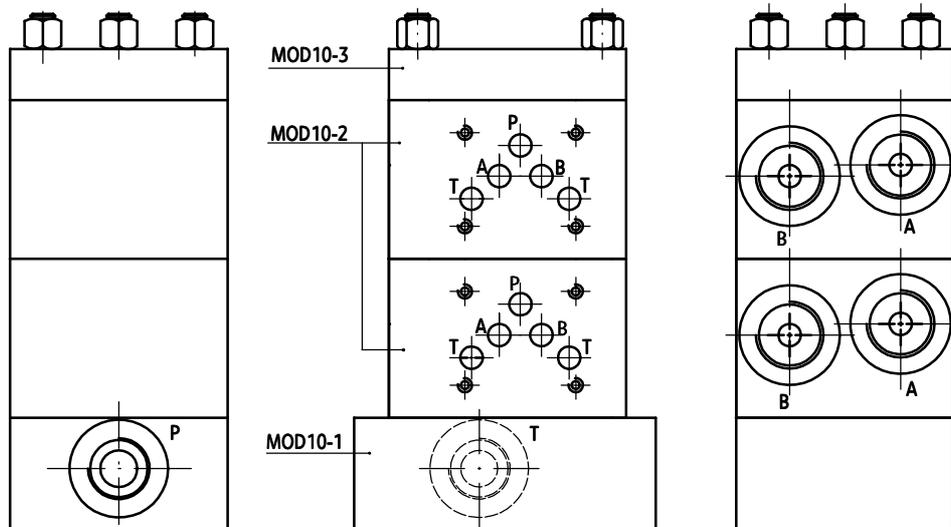
DESCRIPTION

Basic elements of modular control plates are: lower plate (**MOD10-1**), central plate (**MOD10-2**) and upper plate (**MOD10-3**). The plate **MOD10-1** (or **MOD10-1A**) is the basic element to which oil from the pump (**P**) is supplied and is also the element of which return oil from the system (**T**) is carried out.

The plate **MOD10-2** is the basic element for directional control valve and other control equipment (sandwich plate valves) to be connected.

The extension of control system is possible when the number of modules is multiplied (maximum 6). The upper plate **MOD10-3** makes the control system closed and is also the base for mounting pressure gauge isolator valve **UOPF1**.

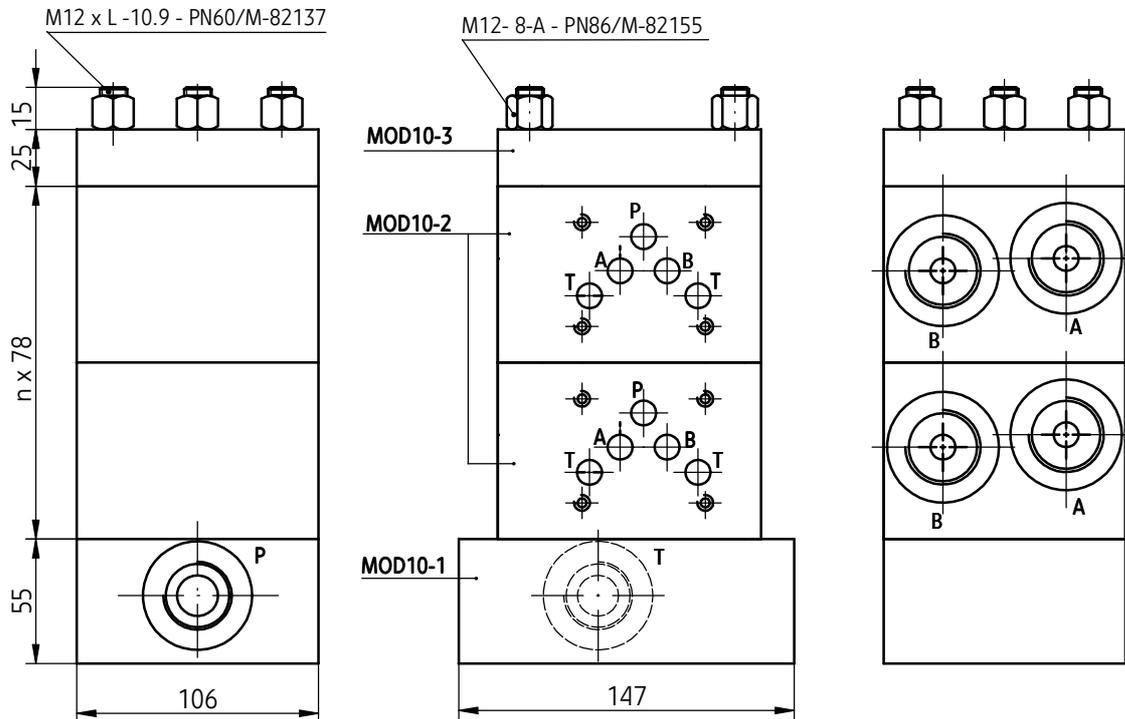
The other plates of the system are supplementary elements when control system is extended.



Below hydraulic equipment manufactured by "PONAR-WADOWICE" S.A. that can be used for control systems to be mounted on the multi-station manifold block:

Directional spool valve, electrically operated	WE 10	according to WK 499 495
Directional spool valve, hydraulically operated	WH 10	according to WK 420 180
Directional spool valve, hand lever operated	WMM 10	according to WK 420 180
Directional spool valve, rotary knob operated	WMD 10	according to WK 420 180
Pressure reducing valves, sandwich plate	UZRC 10	according to WK 494 721
Pressure sequence valves, sandwich plate	UZKC 10	according to WK 493 720
Check valves, sandwich plate	WZCC 10	according to WK 450 367
Double check valves, pilot operated	ZZS 10	according to WK 450 309
Double check valves, sandwich plate	ZZFS 10	according to WK 450 233
Pressure switches (with subplate UŁBC 10)	USPH 4	according to WK 450 398

OVERALL AND CONNECTION DIMENSIONS



Cavities	P	T	A	B
	G1"	G1"	G3/4"	G3/4"

The plates are mounted using double-nutted bolt M12 and nuts. Basic data for the bolts and nuts is given below.

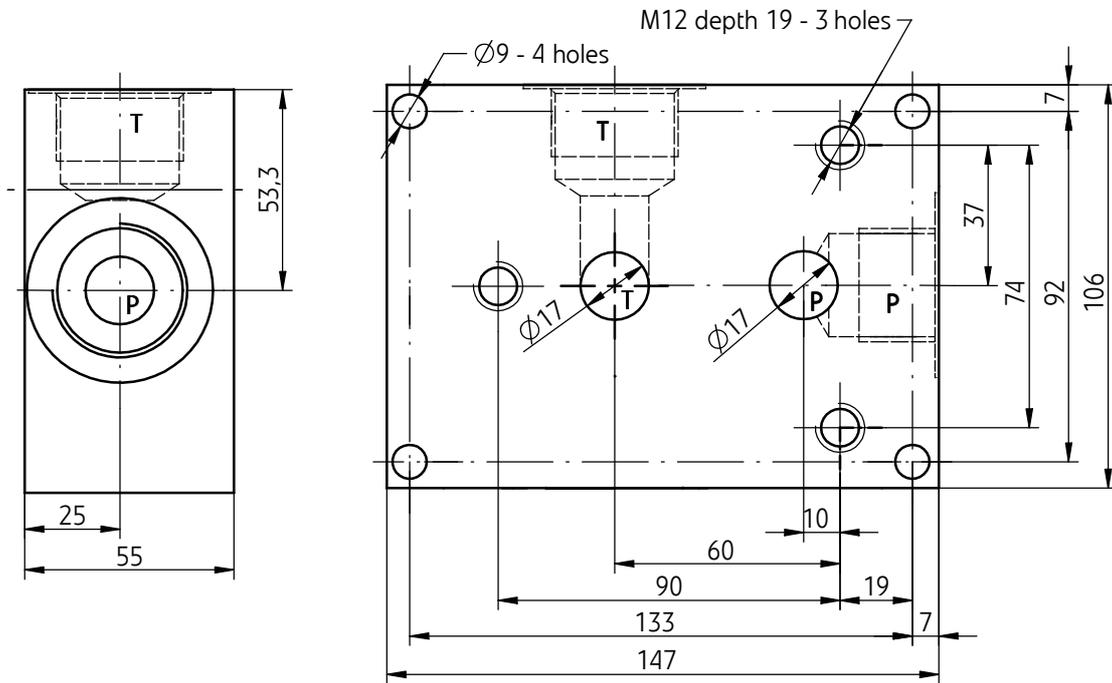
Bolt with accordance with PN60/M-82137	Nut with accordance with PN86/M-82155	Quantity	Number of modules
M12 x 136 -10,9	M12-8-A	3	MOD10-1+ MOD10-2 + MOD10-3
M12 x 214 -10,9	M12-8-A	3	MOD10-1+ 2MOD10-2 + MOD10-3
M12 x 292 -10,9	M12-8-A	3	MOD10-1+ 3MOD10-2 + MOD10-3
M12 x 370 -10,9	M12-8-A	3	MOD10-1+ 4MOD10-2 + MOD10-3
M12 x 448 -10,9	M12-8-A	3	MOD10-1+ 5MOD10-2 + MOD10-3
M12 x 526 -10,9	M12-8-A	3	MOD10-1+ 6MOD10-2 + MOD10-3

NOTES:

Connecting bolts and nuts are not included with the plates and must be ordered separately.
Each plate is supplied with the sealing rings (dimensions are given with the plates description).

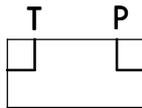
PLATE MOD10-1

Overall and connection dimensions



Cavities	P	T
	G1"	G1"
Material for plate	45	

Graphic symbol

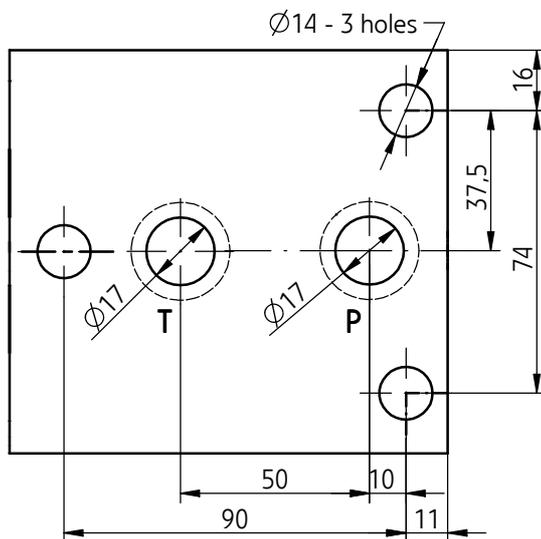
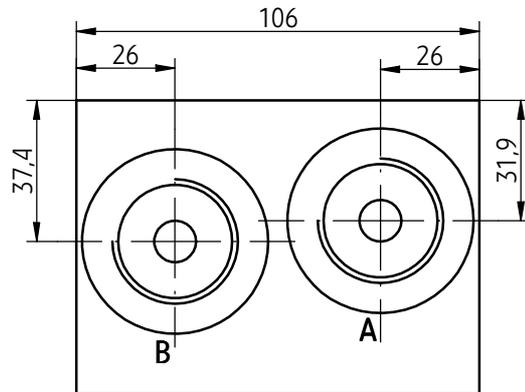
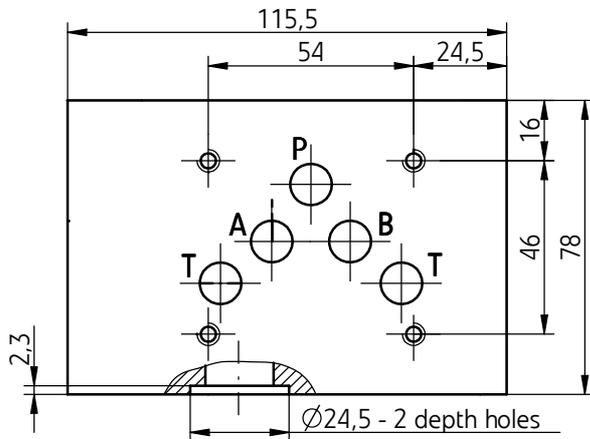


How to order

Any order should be addressed to the manufacturer according to the below coding:
plate MOD10 -1

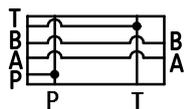
PLATE MOD10-2

Overall and connection dimensions



Cavities	A	B
	G3/4"	G3/4"
Material for plate	45	
O-ring	19,2 x 3 - 2 pcs	

Graphic symbol



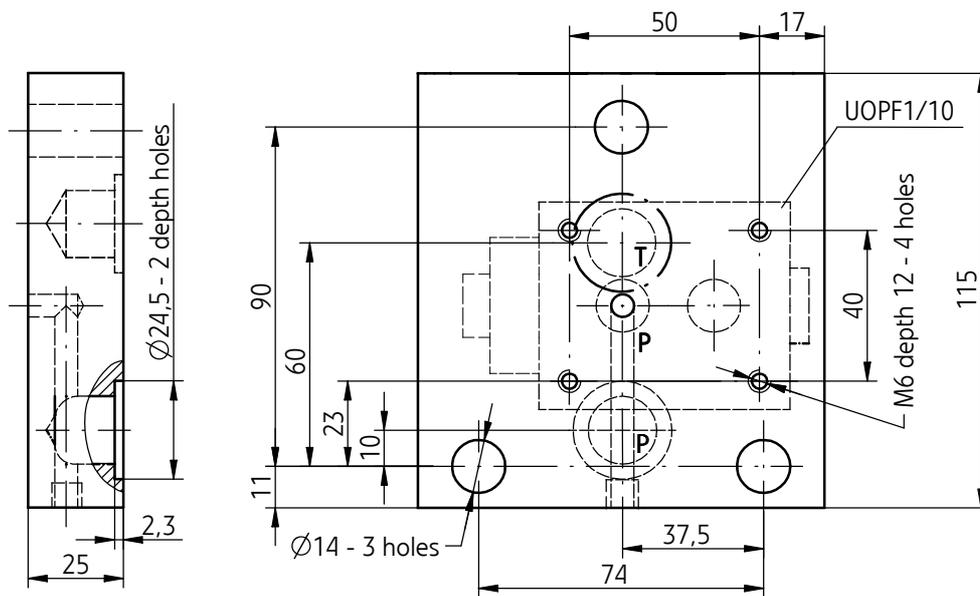
How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10-2

PLATE MOD10-3

Overall and connection dimensions

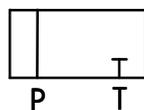


Material for plate	45
O-ring	19,2 x 3 - 2 pcs

NOTES:

Pressure gauge isolator valve type UOPF1 is not included with the plate and must be ordered separately. Carrying out the oil of pressure gauge isolator valve: by connection (T) of pressure gauge isolator valve UOPF1 (back).

Graphic symbol



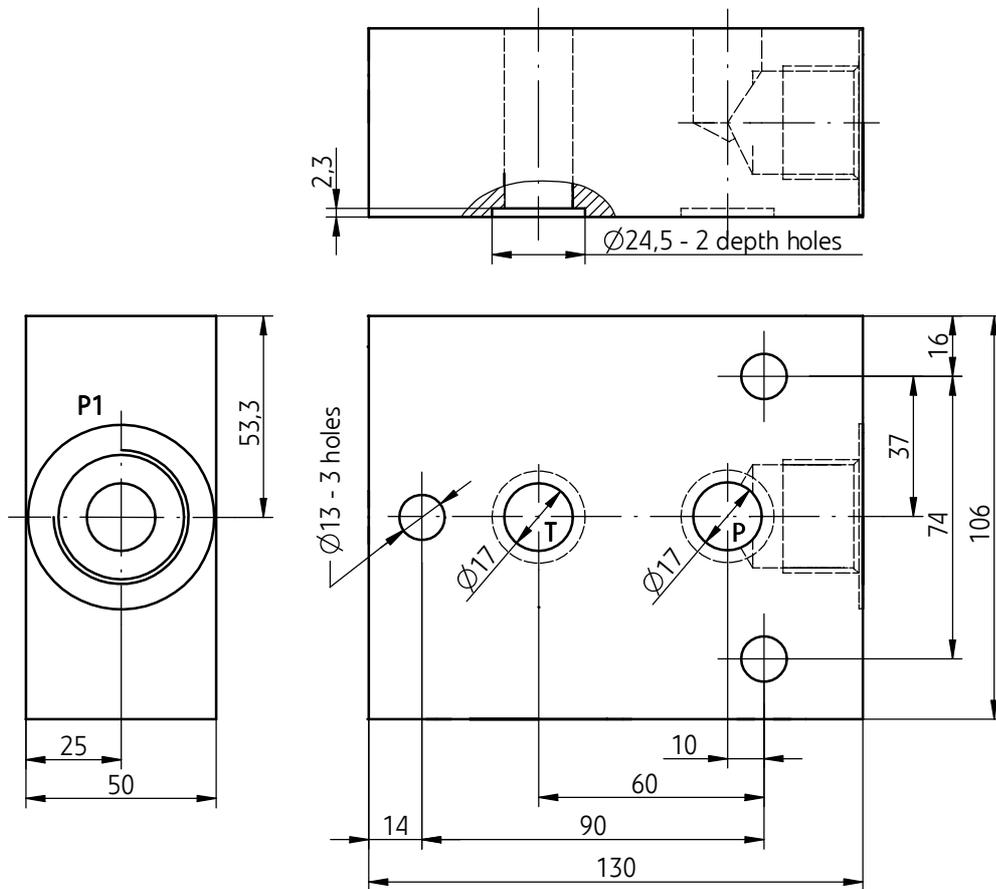
How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10-3

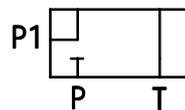
PLATE MOD6-4

Overall and connection dimensions



Cavity	P1
	G1"
Material for plate	45
O-ring	19,2 x 3 - 2 pcs

Graphic symbol



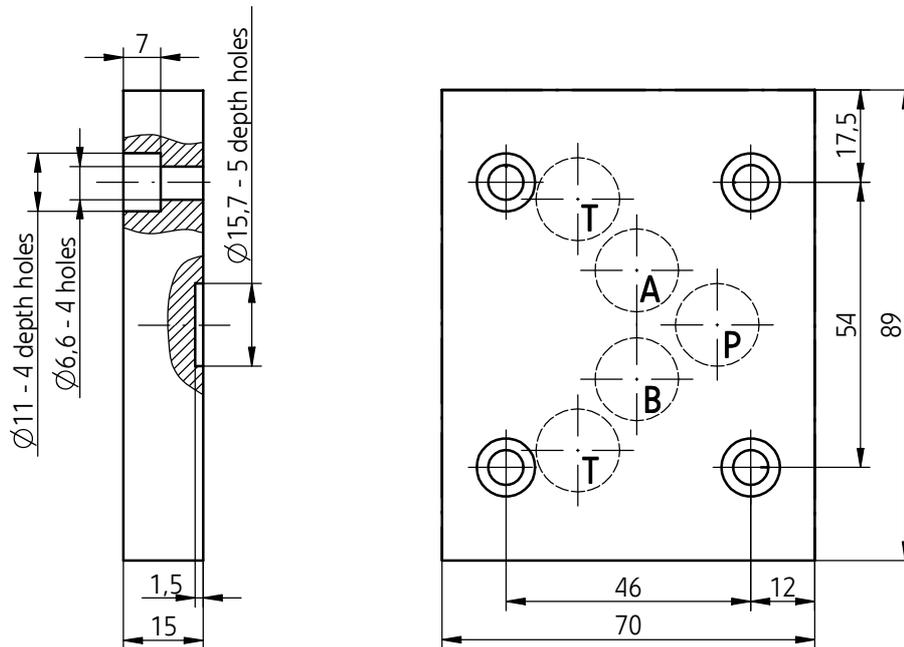
How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10- 4

PLATE MOD10-5

Overall and connection dimensions



Material for plate	45
O-ring	12 x 2 - 5 pcs

Graphic symbol



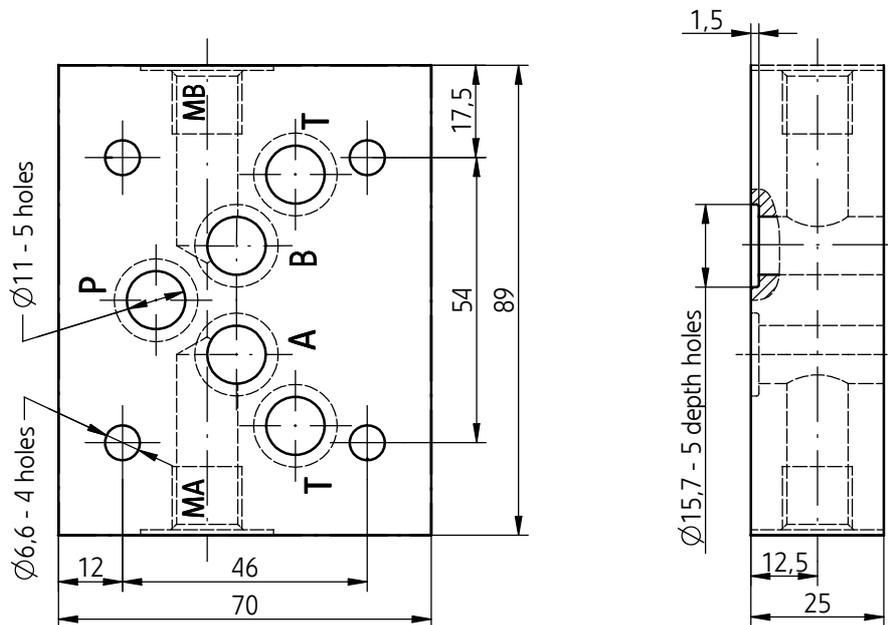
How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10 - 5

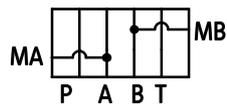
PLATE MOD10-6

Overall and connection dimensions



Cavities	MA	MB
	G1/4"	G1/4"
Material for plate	45	
O-ring	12 x 2 - 5 pcs	

Graphic symbol



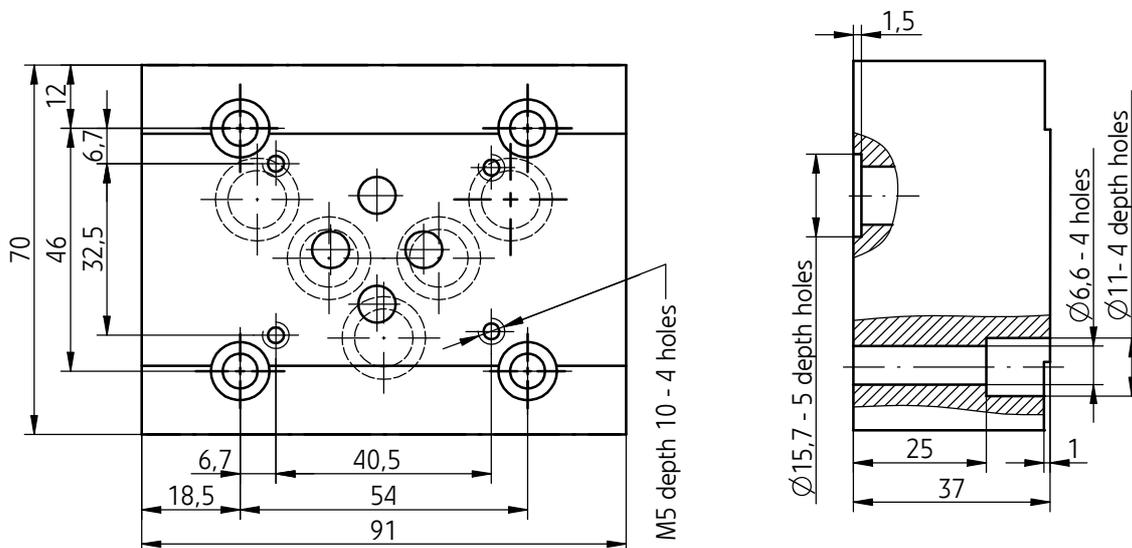
How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10 - 6

PLATE MOD10-8

Overall and connection dimensions



Material for plate	45
O-ring	12 x 2 - 5 pcs

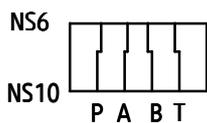
NOTES:

Plate reducing the connection NS 10 into the connection NS 6.

Clamping screws for the plate: M6 x 35 -10,9 PN-87/M-82302 – 4 pcs.

Clamping screws are not included with the plate and must be ordered separately.

Graphic symbol



How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10 - 8

PLATES MOD10-9; MOD10-10; MOD10 -11

Overall and connection dimensions

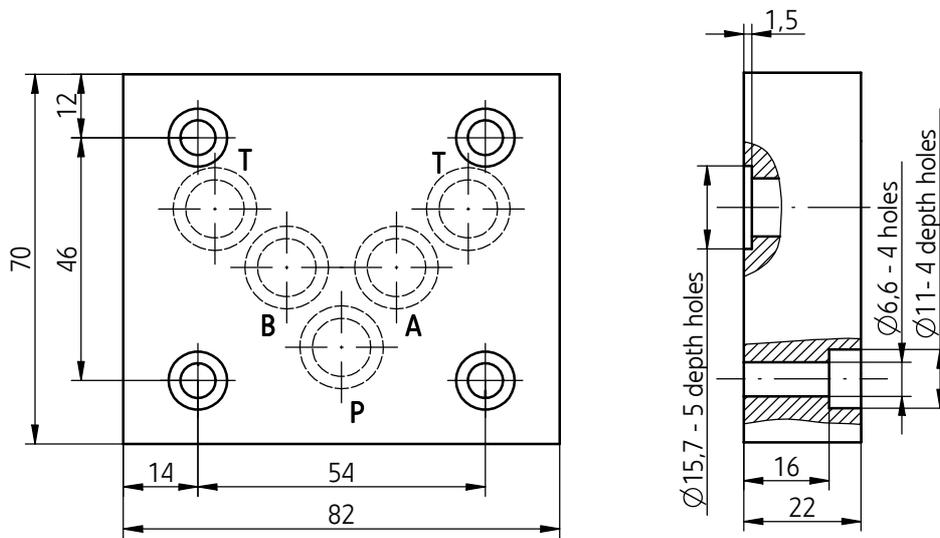


Plate	MOD10 - 9	MOD10 - 10	MOD10 - 11
Material for plate	45		
O-ring	12 x 2 - 5 pcs		

Graphic symbol

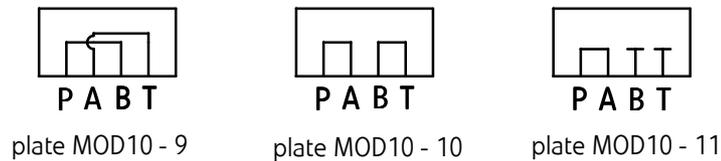


plate MOD10 - 9

plate MOD10 - 10

plate MOD10 - 11

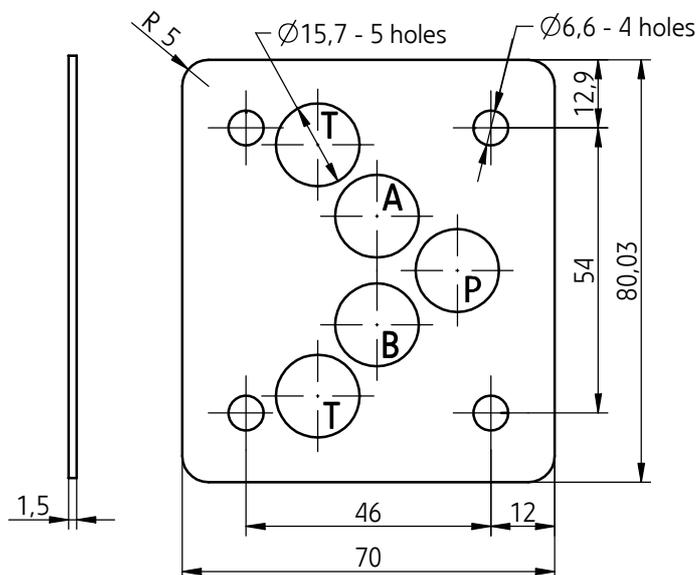
How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10 - 9

PLATE MOD10 -12

Overall and connection dimensions



Material for plate	45
O-ring	12 x 2 - 5 pcs

NOTE:

Plate MOD10 -12 with the sealing rings (5 pcs) allows to seal two flat connections NS10.

Graphic symbol



How to order

Any order should be addressed to the manufacturer according to the below coding:

plate MOD10 - 12

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