

HIDROSIB

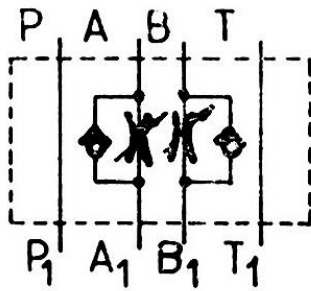
S.A.



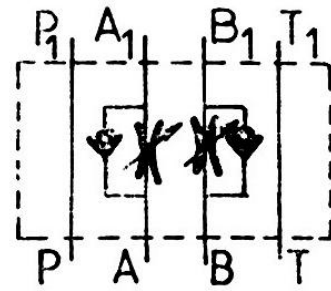
193rd Stefan Cel Mare str., 2400 Sibiu -Romania

VALVE FUNCTIONS

Throttling on outlet (DR 1 M 16, 20)



Throttling on inlet (DR 1 M 10)



Note: For DR 1 M 10 H-0 throttling valve, the "b" symbol is derived from the "a", symbol, by rotating the unit to 180° around the x-x axis (see fig. 8)

CHARACTERISTIC CURVES

Flow rate vs. throttle regulating stroke, $Q=f(s)$

NB 10

$\nu = 35 \text{ cSt}$

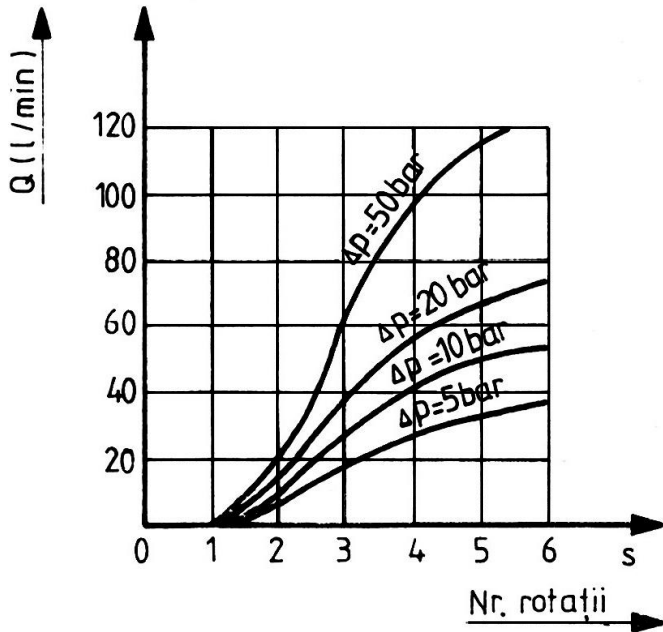


Fig. 1

NB 16

$\nu = 35 \text{ cSt}$

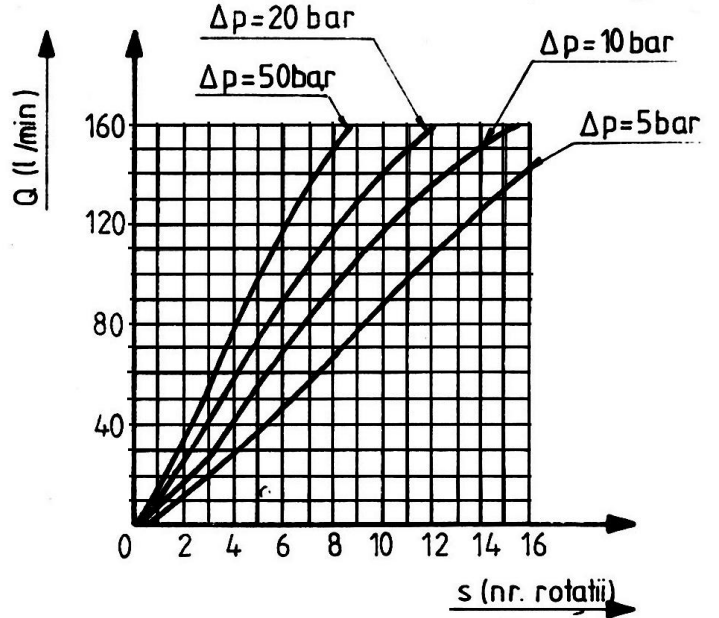


Fig. 2

NB 20

$\nu = 35 \text{ cSt}$

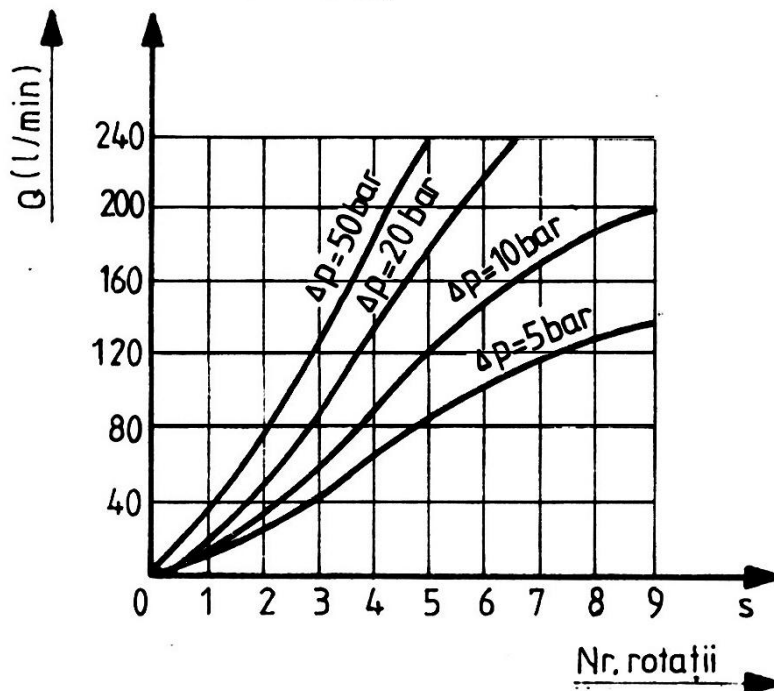


Fig. 3

Pressure drop across by-pass valve vs. flow rate, $\Delta p = f(Q)$,
 for fully closed throttle valve (curve 1) and for fully open throttle valve (curve 2).

NB 10

$\nu = 35 \text{ cSt}$

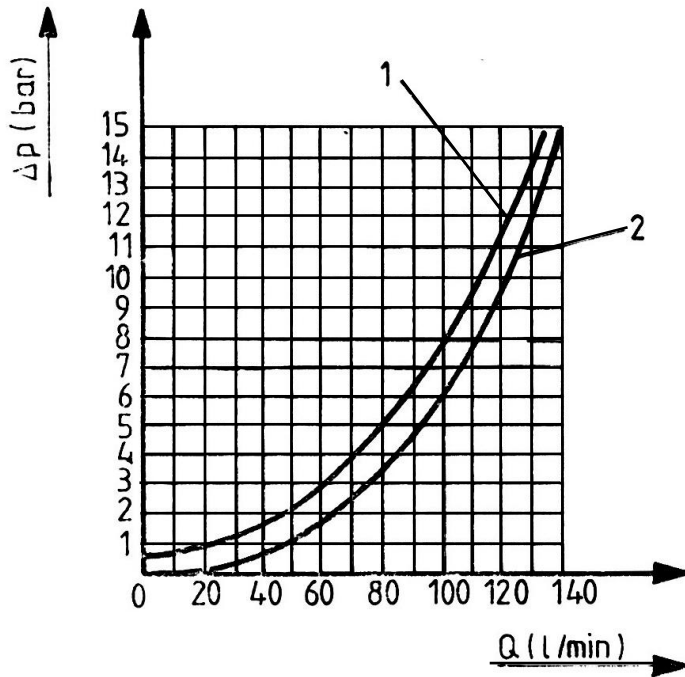


Fig. 4

NB 20

$\nu = 35 \text{ cSt}$

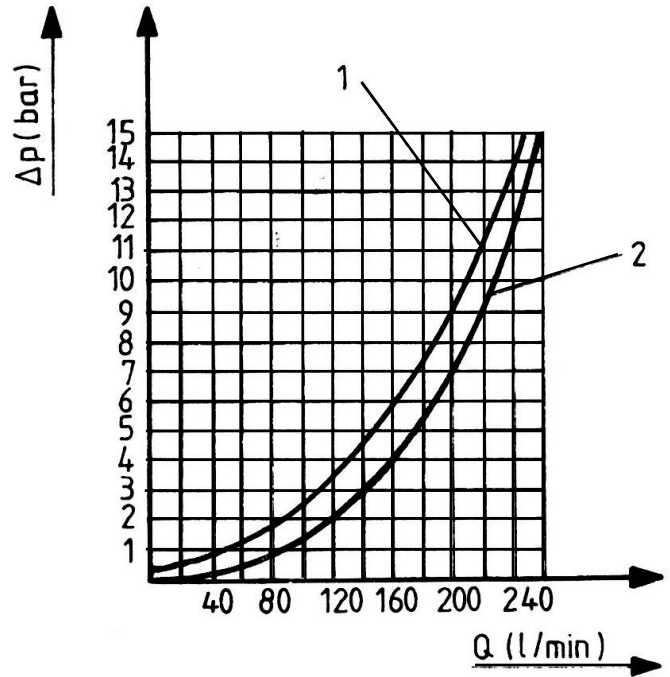


Fig. 5

Pressure drop vs. flow rate, $\Delta p = f(Q)$ for fully open throttle valve
 (fig. 6) and fully closed throttle valve, across the by-pass valve (fig. 7)

NB 16

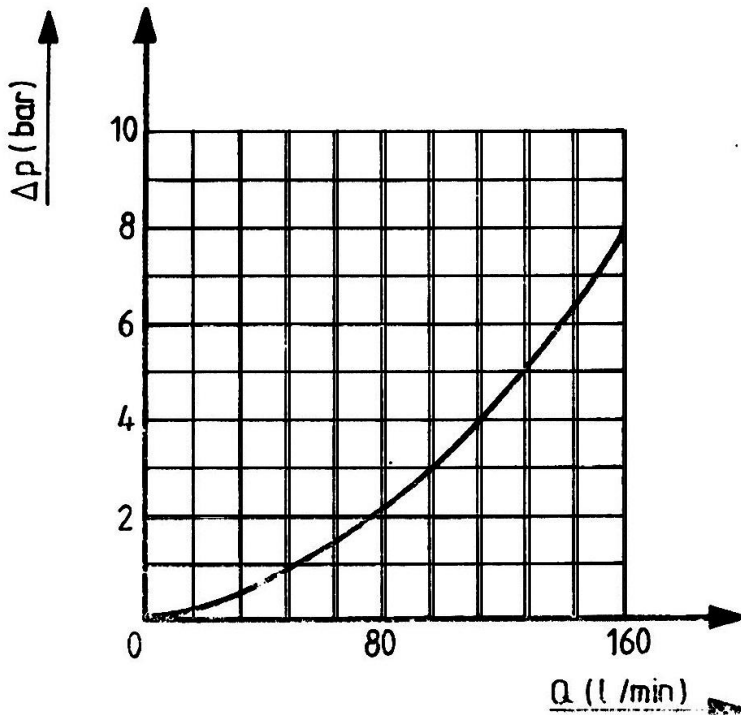


Fig. 6

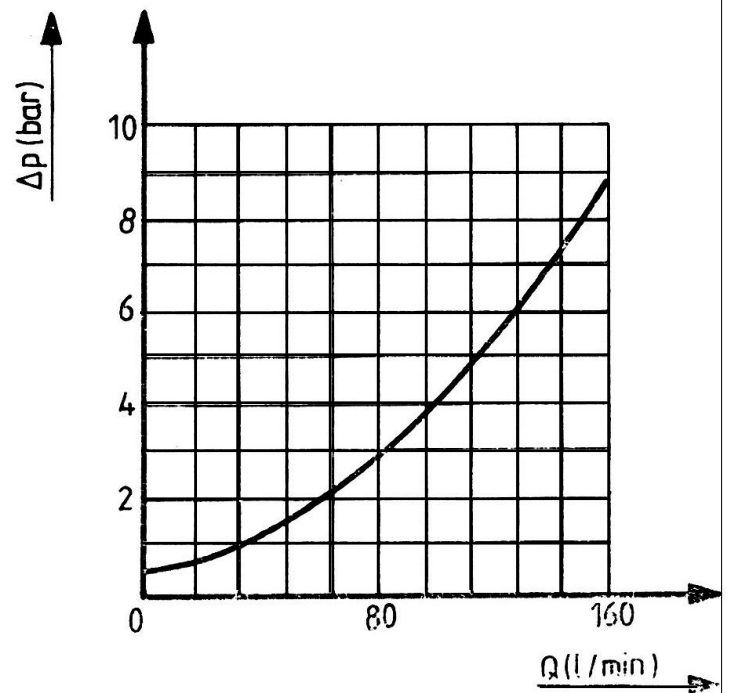


Fig. 7

DIMENSIONS

NB 10

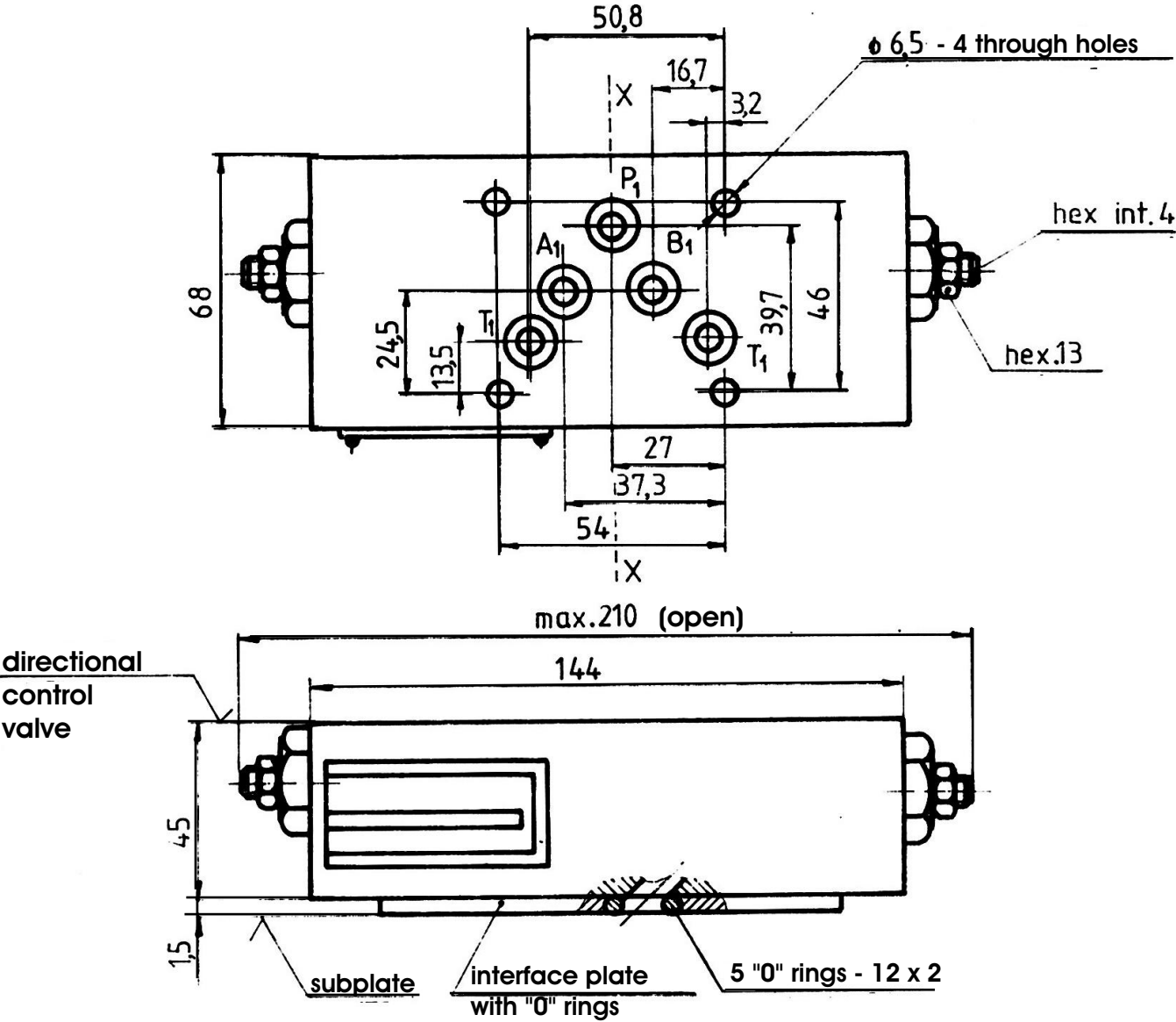


Fig. 8

Weight: 5,000 Kg.

NB 16

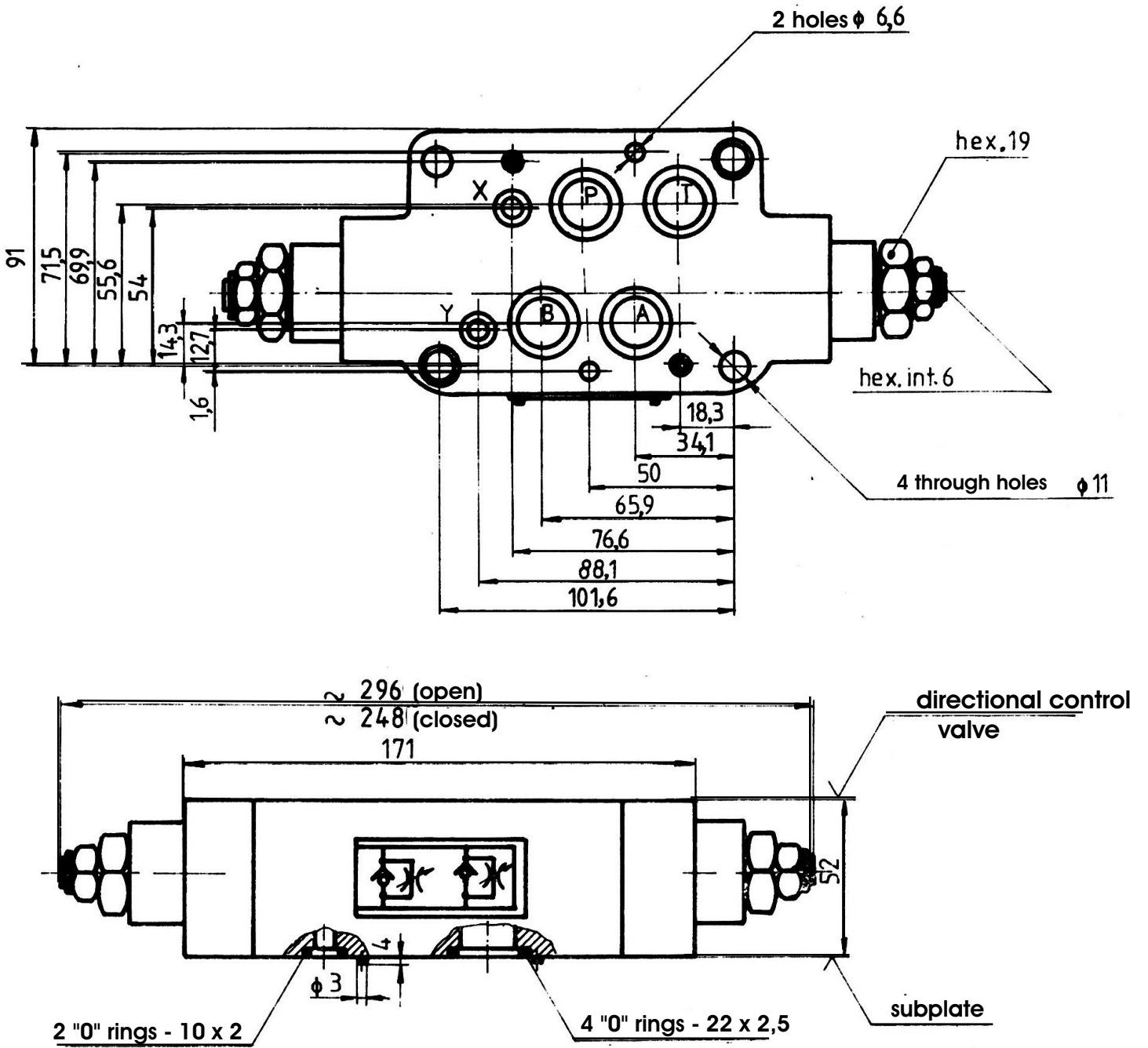


Fig. 9

Weight: 4,7 Kg.

NB 20

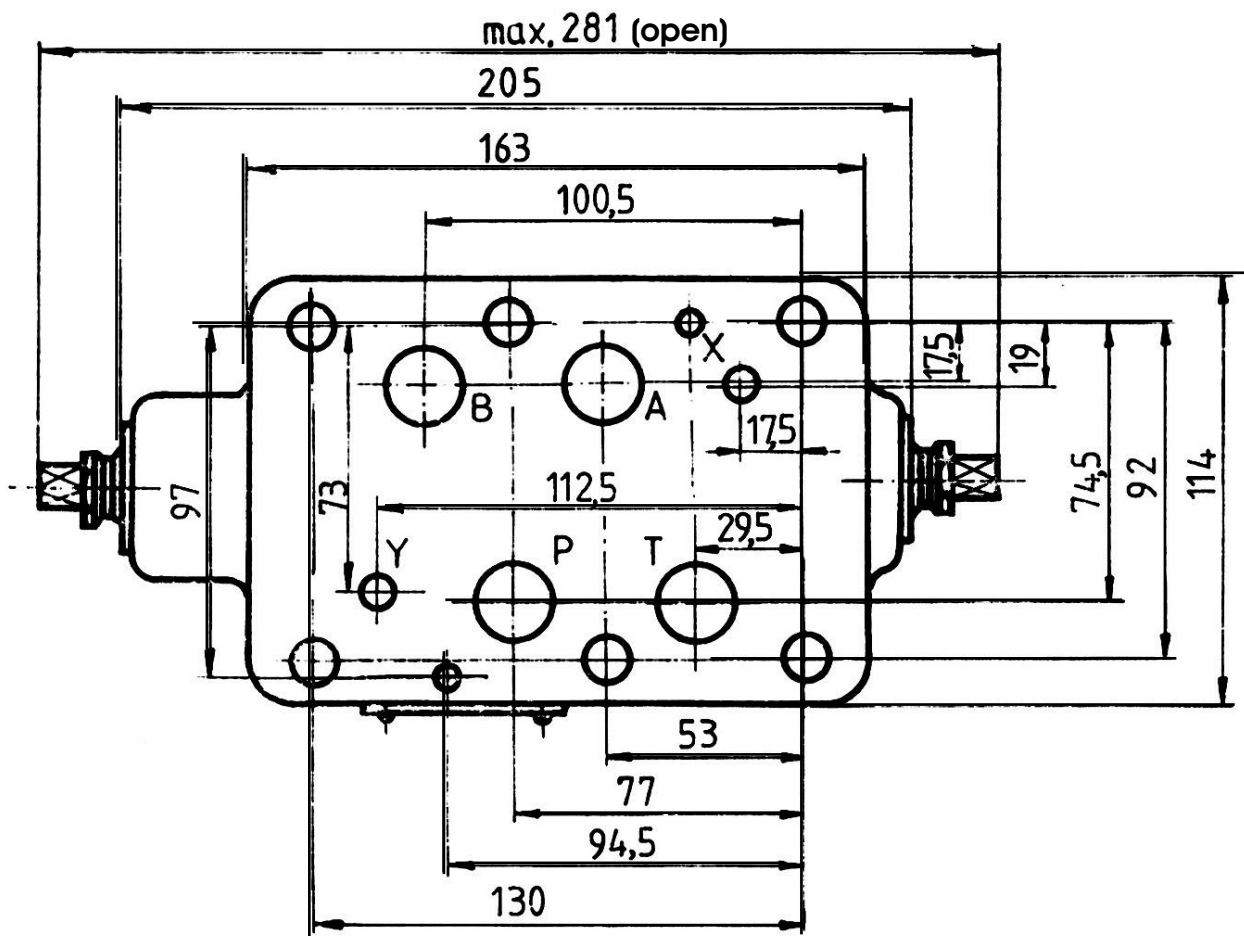
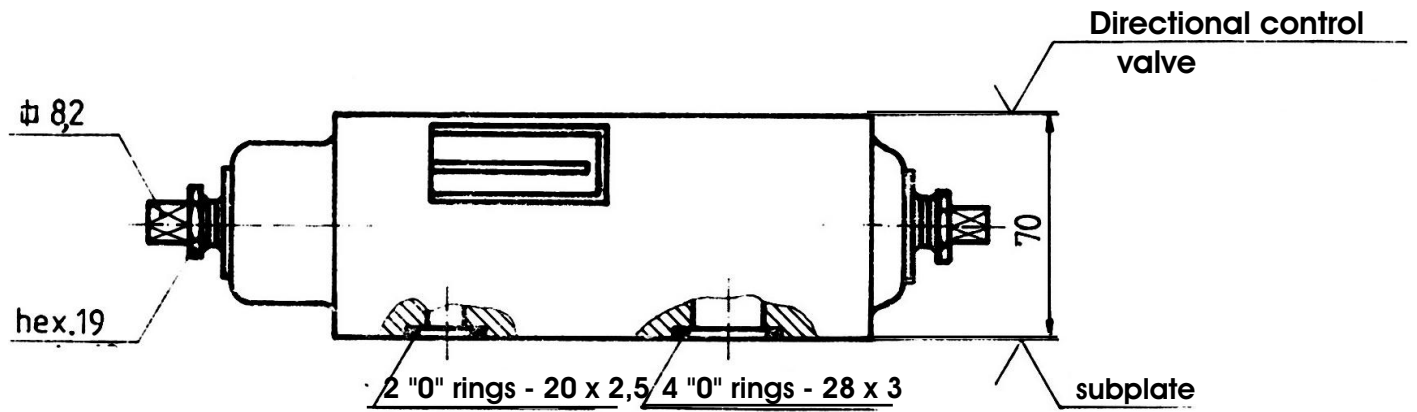


Fig. 10

Weight: 9,5 Kg.

NB 10

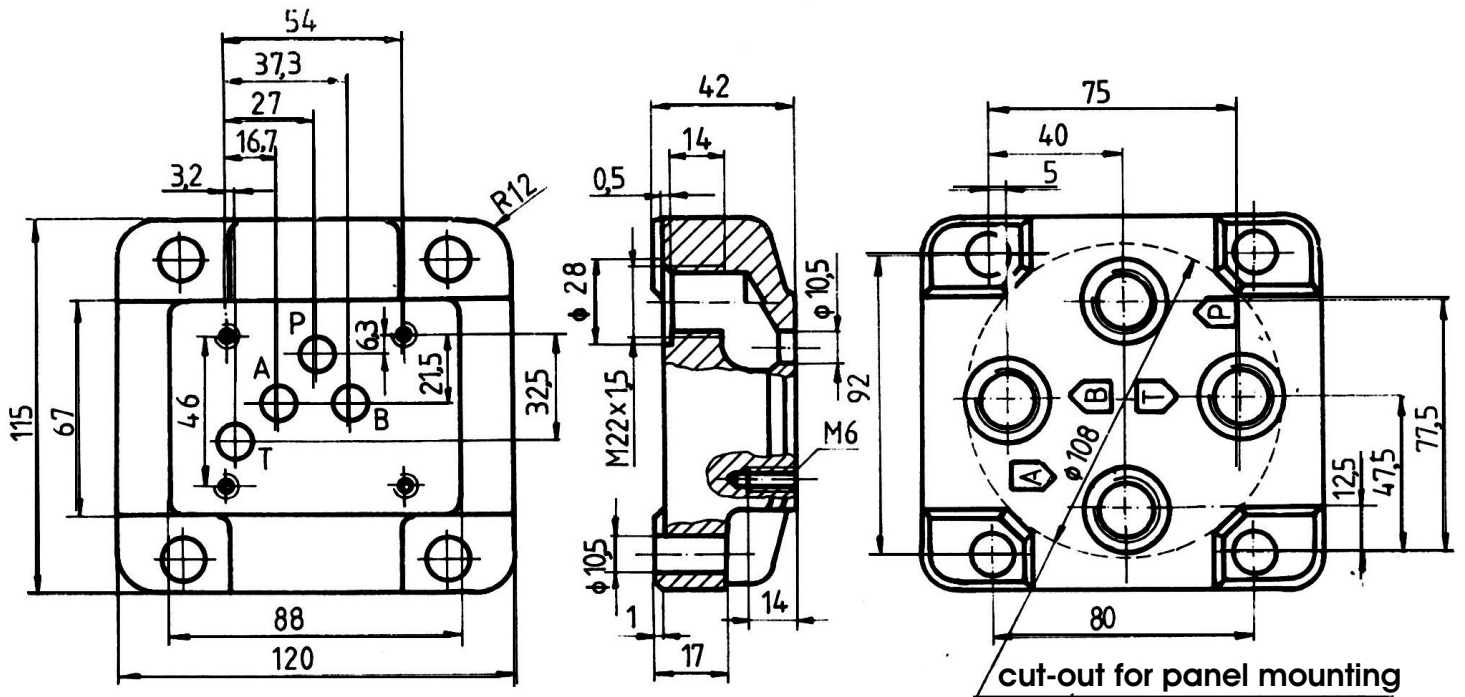


Fig. 11

Model code: PBD 10-1

- 4 fixing screws M6x80 STAS 5144-80 gr. 10.9 Tightening torque: $1,1^{+0,3}$ daNm

NB 16

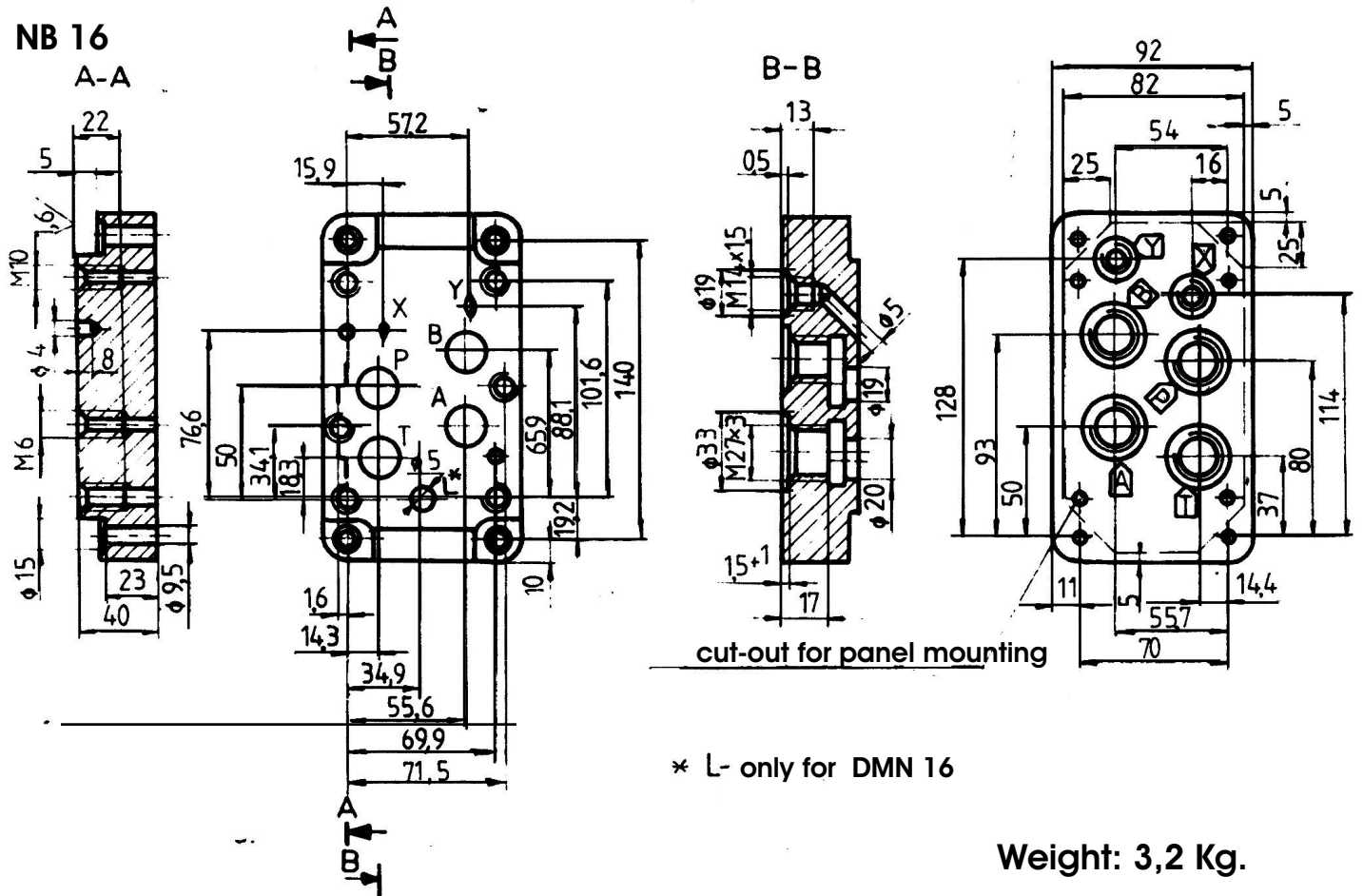


Fig. 12

Model code: PBD 16-1

-fixing screws M 10x100 STAS 5144-80 gr. 10.9 Tightening stroke: 50^{+10} daNm

-fixing screws M 6x100 STAS 5144-80 gr. 10.9 Tightening torque 11^{+3} daNm

* L- only for DMN 16

Weight: 3,2 Kg.

NB 20

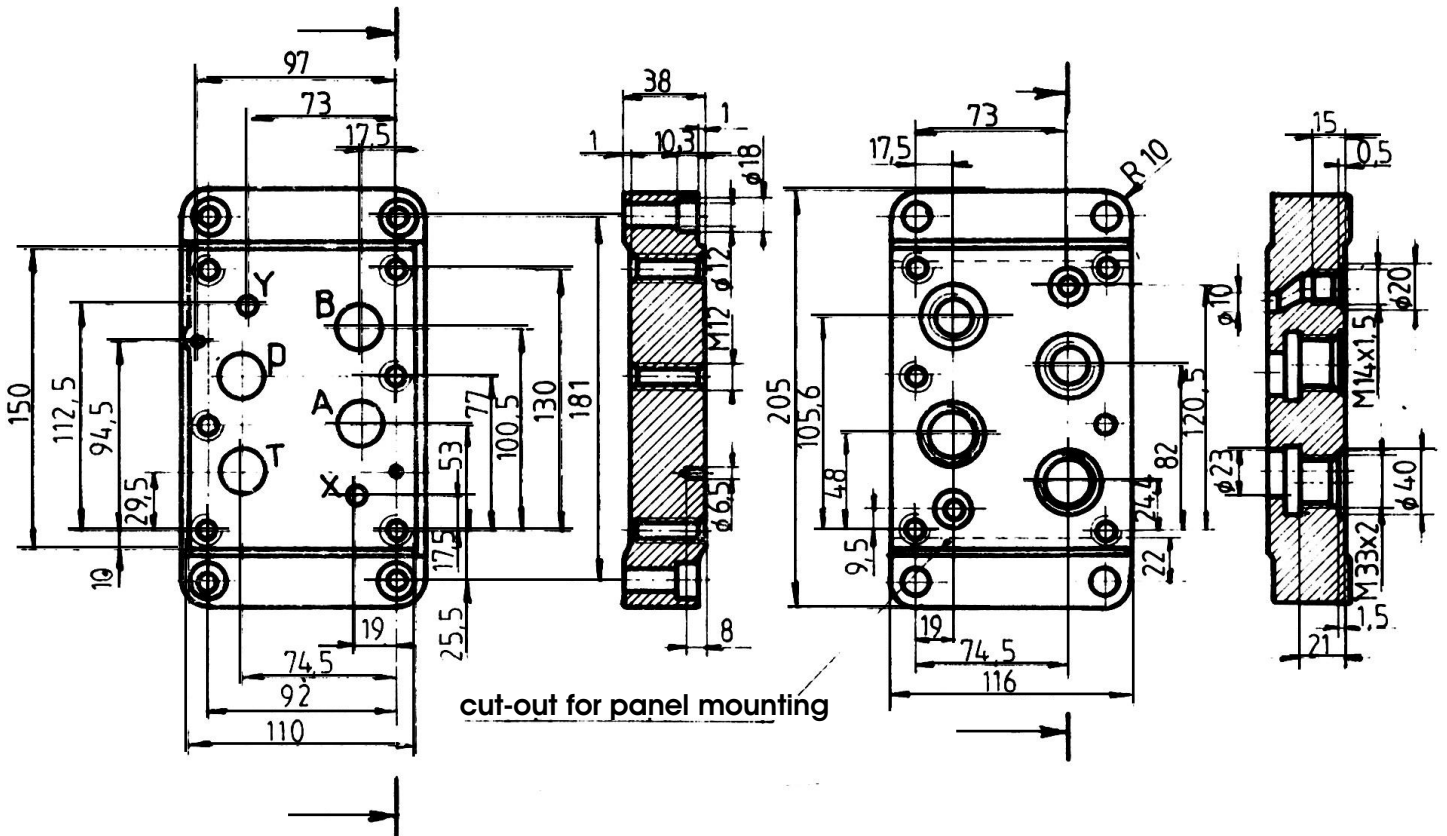


Fig. 13

Model code: PBD 20-1

Weight: 5,100 Kg.

-6 fixing screws M 12x130 SR ISO 4762:1993 gr. 10.9 Tightening torque: 9+3 daNm

MODEL CODE

1 2 3 4 - 5 - 6/*

* For climatic protected model, add at the end of the model code /T1 or T2

- 1. DR - Hydraulic restrictor**
- 2. 1- one-way throttling (one-way restrictor)**

- 3. M - Modular mounting**
- 4. Nominal bore 10, 16, 20**
- 5. H - Manual adjusting, by non-adjustable wrench**

- 6. O - Series.**