# HIDROSIB

S.A.

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| 40 l/min | Modular throttle micro-valves<br>NB 6 | FC - 26 |
|---|---|---|
| 315 bar | | |

## GENERALITIES

Allow fluid flow ajusting either both ways (throttle valves) or one-way (one-way restrictors).

Manually adjusted, by screw
Modular mounting, with hydraulic connections on two sides, for sandwich mounting and fixing by threaded tie-rods.

Mounting surfaces conforming to ISO 4401.

## PERFORMANCE DATA

### GENERAL

Mounting position: unrestricted
Fixing: modular

Symbol: see fig. 1 and 2
Fluid flow direction: Throttled: through A->A1 si B->B1
Free: across check valve through A1->A and B1->B flow pathways
Temperature range of ambient medium : -20°c.....+50°c

### HYDRAULIC

Nominal pressure : 315 bar

Maximal flow: 40 l/min

Fluid :
Fluid type: additived mineral oil.
Viscosity range : 10 ...500 cSt
Temperature range : -20°C.....+80°C
Filtration: < 25 $\mu$m

## DR 1 M 6 - inlet + outlet

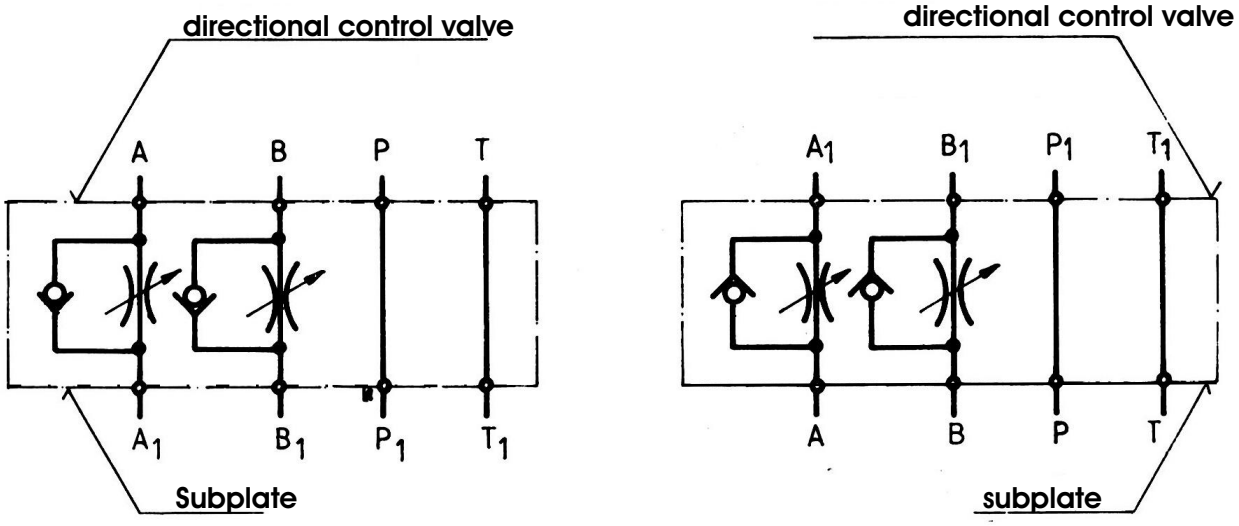



Fig. 1

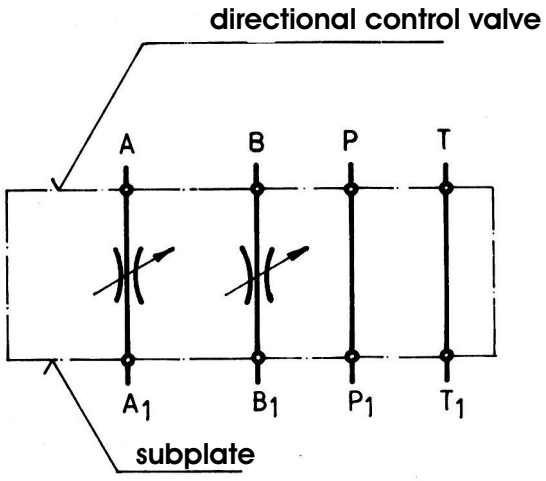



Fig. 2

## CHARACTERISTIC CURVES

**Flow rate vs. throttle valve adjusting stroke Q = f(s) (fig. 3)**
**Pressure drop across by-pass valve vs. flow rate,**
**△p = f(Q) for completely open throttle valve (fig.4) and completely closed (fig. 5)**

ν = 35 cSt

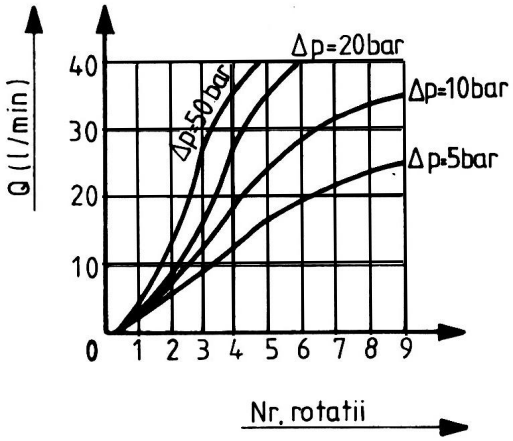



Fig. 3

ν = 35 cSt

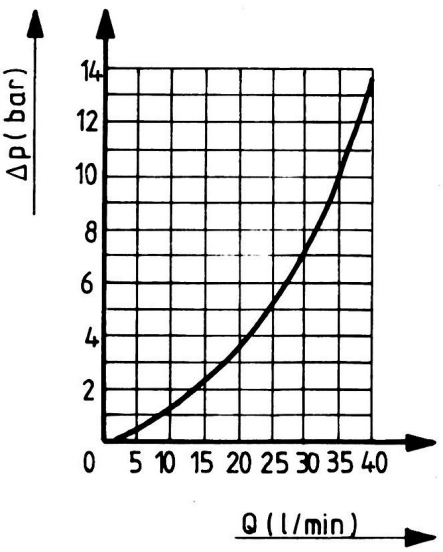



Fig. 4

ν = 35 cSt

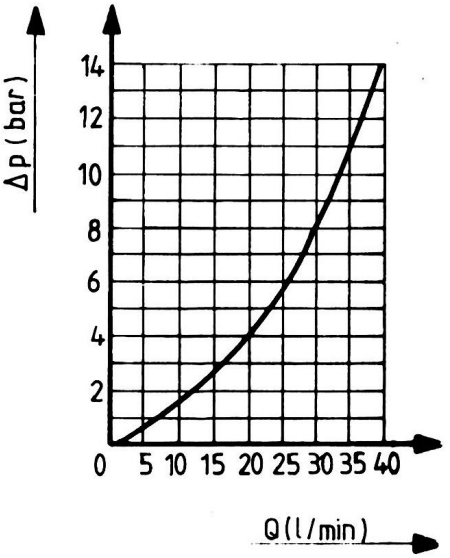
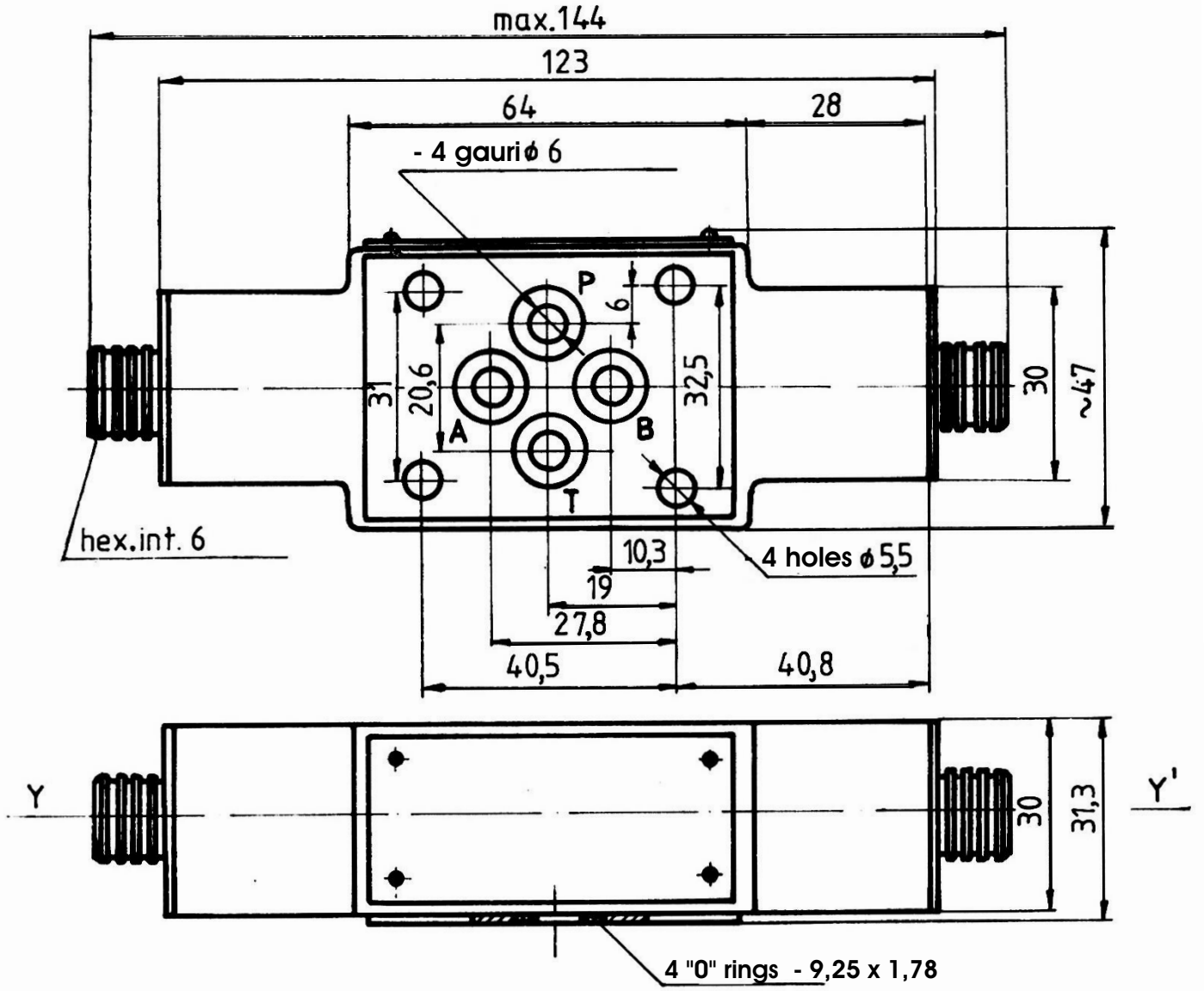



Fig. 5

# DIMENSIONS




**Weight: 0,865 Kg.**

Fig. 6

## SUBPLATE

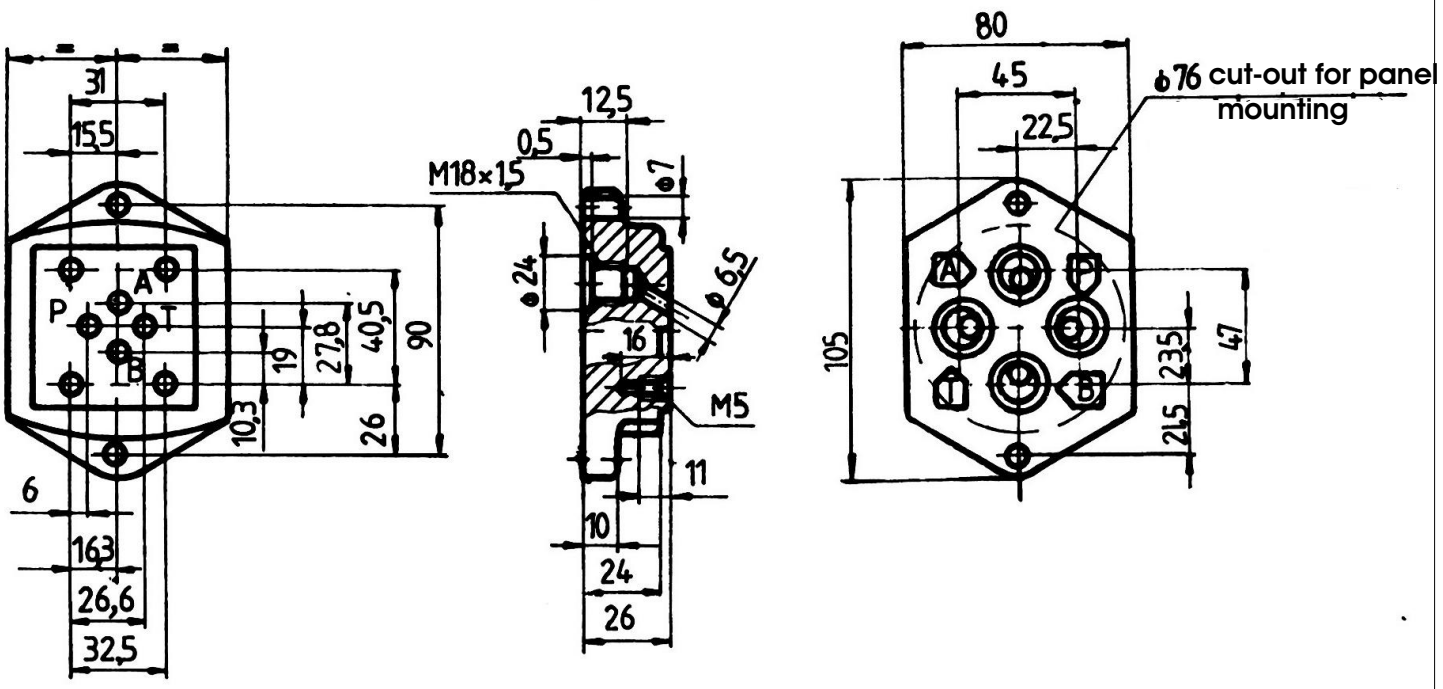



Fig. 7

- 4 fixing scres M 5x60 SR ISO 4762:1993 gr. 10.9. Tightening torque 0,6 $^{+0,2}$ daNm.

Observation: screw length effective for mounting modular throttle valve under NB 6 directional control valves.

Model code: PBD 6-1 Weight: 0,7 Kg.

## MOUNTING DATA

Throttle valves and one-way restrictors are mounted either between subplate and another modular unit, or between other two modualr units; in case interface plates are needed between the units, when designing and machining such plates, the conditions stipulated in ISO 4401 (STAS 12440/1-86, respectively) must be strictly observed.

# MODEL CODE

## 1 2 3 4 - 5 - 6/*

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

1. DR - Hydraulic restrictor
2. Built-in bypass valve:
   1 - with by-pass valve (one-way restrictor)
   2 - without by-pass valve (throttle valve)

3. M - Modular mounting
4. 6 - Nominal bore
5. H - Manual adjusting by non-adjustable wrench
6. O - Series