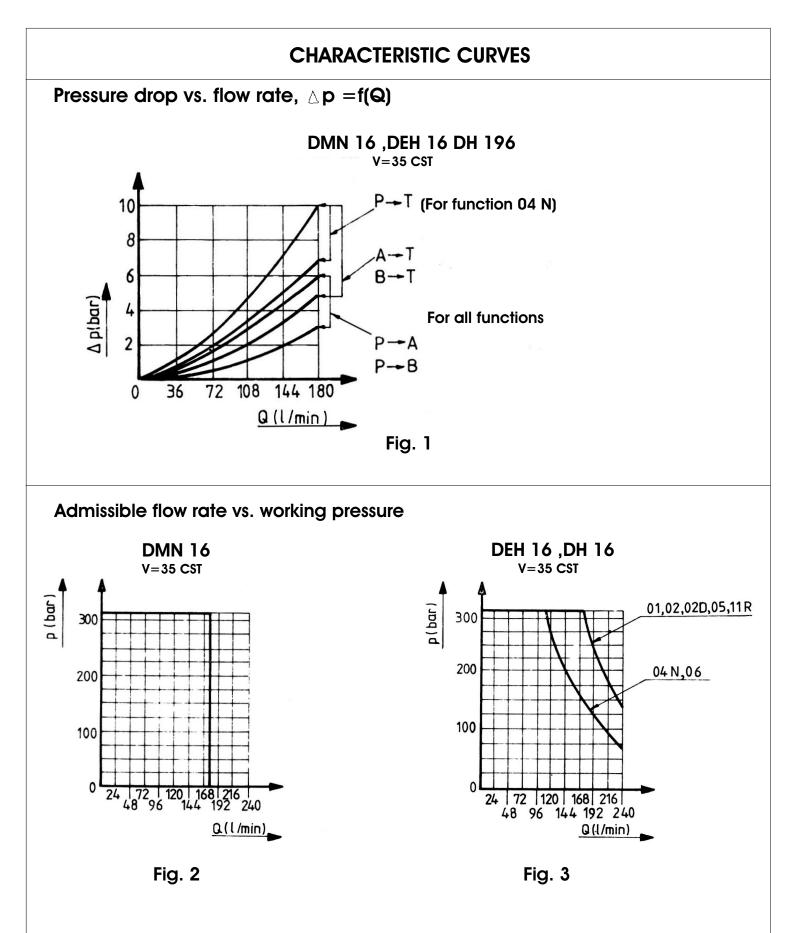




193<sup>rd</sup> Stefan Cel Mare str., 2400 Sibiu -Romania

|                                |   | I                  |
|--------------------------------|---|--------------------|
| 240 l/min                      | Hydraulic directional control value   | <b>/es</b> Fc - 3  |
| 315 bar                        | Dn 16   |                    |
|                                | GENERALITIES  |                    |
| 4-way, 2 or 3 p                | position (4/2 or 4/3) directional control val   | ves                |
| hydraulicall<br>Pilot operated | y hand lever<br>y, from a remote pilot source<br>:  |                    |
| solenoia op                    | erated, by a DE 6 pilot valve, electrically o   | conirollea.        |
| Spring or press<br>valves.     | sure return to normal position. Indexable o   | at manual operated |
|                                | ol functions, obtained by different spools<br>nting surface conforming to ISO 4401.         |                    |
| GENERAL                        | PERFORMANCE DATA  |                    |
| Fixing: face                   | mounting  |                    |
|                                |   |                    |
| Mounting po<br>unrestricte     | osition: function 11: horizontally; the d.  | other functions:   |
| Temperature                    | e range of ambient medium: -20°c  | + <b>50°c</b>      |
| HIDRAULIC                      |   |                    |
| •                              | ure at ports P,A,B : 315 bar<br>ure at port T : 250 bar - pt Y ext<br>160 bar - pt Y intern |                    |
| Flow: see figur                | es 1- 3   |                    |
| Viscosity<br>Tempera           | e: additived mineral oil.<br>range: 10500 cSt<br>ture range: -25°C+80°C<br>: < 25 μm        |                    |

| Main valve pilot pr   | essure: mi   | in 10 bar   |  |                           |                                      |  |
|---|--|---|--|---------------------------|--------------------------------------|--|
| Main valve shift ve   |  | For 2 positio   | ns 1   | for 3 positions           |                                      |  |
|   |  |   | <b>8,9</b> cm <sup>3</sup>                     |                           | 4,45 cm <sup>3</sup>                 |  |
| Main valve respons  | e time:  |   |  |                           | -,-• • • • • •                       |  |
| solenoid energized:   |  |   | 50 bar 200 bar<br>30 50 ms (c.c) 15 25 ms (A.C |                           |                                      |  |
| no  | energized  | 50 bar<br>40 60 ms (C                                       | 20   | 200 bar<br>40 60 ms (A.C) |                                      |  |
|   | SOLENOI  | D CHARAC  | CTERISTICS                                     |                           |                                      |  |
| Type of current:  |  | Direct  | current (DC)                                   | Altern                    | ating current (AC                    |  |
| Voltage, Un   |  | 12<br>24  | -  |                           | 110 V/50Hz<br>220 V/50Hz             |  |
| Voltage admissible<br>Relative duty cycle<br>Maximum switch fre<br>Power input at 20 °C<br>*Pilot valve respons | : Da100%<br>equency p<br>C :<br>solenc<br>no sol<br>se time:<br>solenc | ber hour: 30<br>bid energize<br>lenoid ener<br>bid energize | ed: 35 W                                       | ) ms                      | 120VA<br>40 VA<br>520 ms<br>10 60 ms |  |
| Maximal admissible  | e pressure   | at solenoid   | I chamber: 160                                 | bar                       |                                      |  |
| Type of connection<br>Type of protection  | •  |   | -  |                           |                                      |  |
| NOTE :<br>* Response t  | ime will vary  | v with valve h  | ydraulic power.                                |                           |                                      |  |





# VALVE FUNCTIONS

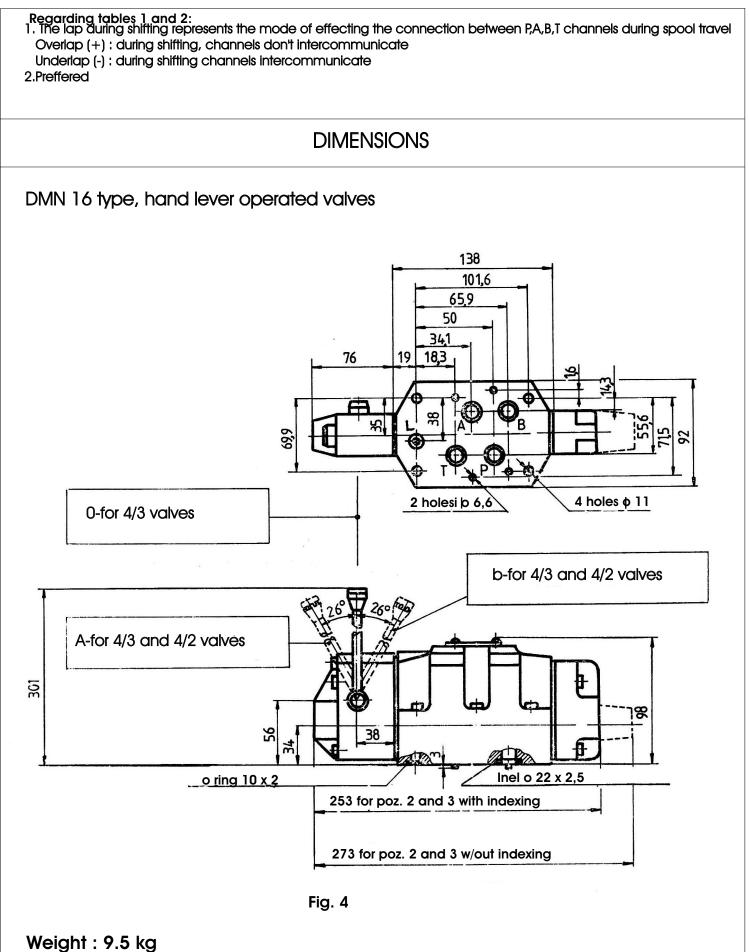
#### Distributional valve functions

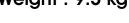
| I able . I | Ta | bl | е |  | 1 |
|------------|----|----|---|--|---|
|------------|----|----|---|--|---|

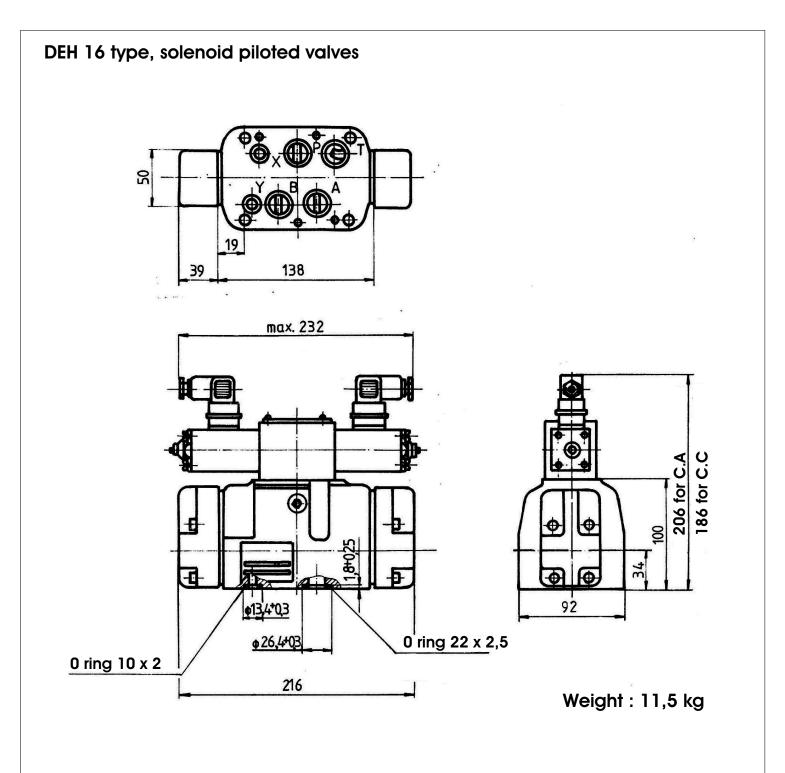
|               | Symbol            |     | Symbol      |     |
|---------------|-------------------|-----|-------------|-----|
| oool<br>type  |                   | 2   |             |     |
| Spool<br>type | DH                | Lap | DMN         | Lap |
| 01            |                   | +   | A B b<br>PT |     |
| 02            |                   |     |             | +   |
| 02D           |                   | ×   |             | -   |
| 04            |                   |     |             | +   |
| 04N           |                   | 1   |             |     |
| 05            |                   |     |             |     |
| 06            | A B<br>X►-Y<br>PT |     |             |     |

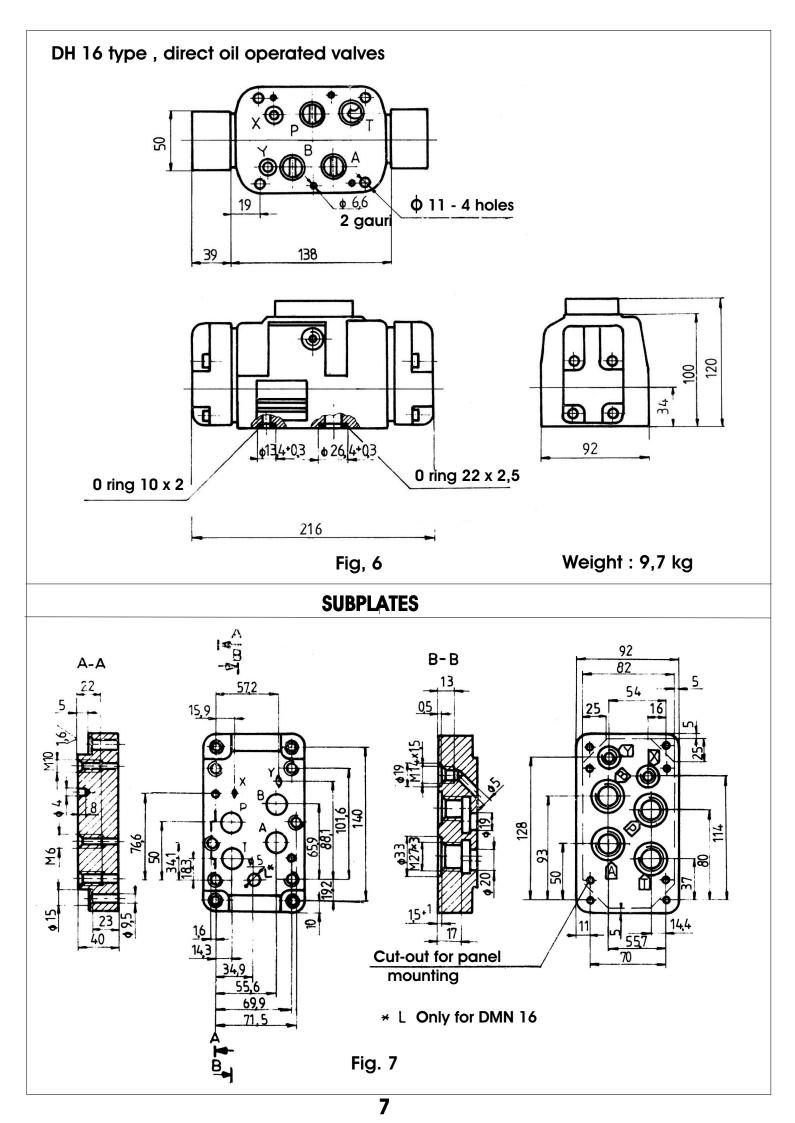
Table .2

|       |                   |     | DEH Z   |                |        |        |        |        |
|-------|-------------------|-----|---|----------------|--------|--------|--------|--------|
| Spool | Simplified symbol | Lap | Voltage<br>012/00 024/00 096/00 190/00 110/50 |                |        |        |        |        |
| type  |                   |     | 012/00  | 024/00         | 096/00 | 190/00 | 110/50 | 220/50 |
| 01    |                   | +   |   | PY             |        |        | XY     | PY     |
| 02    |                   |     |   | xy             |        |        | XY     | XY     |
| 02D   |                   |     |   | PY             |        |        |        | PY     |
| 04N   |                   | -   |   | <b>,</b><br>PY |        |        |        |        |
| 05    |                   |     |   | PY             |        |        | XY     | PY     |
| 06    |                   |     |   | x۲             |        |        |        | XY     |
| 11R   |                   |     |   | xY             |        |        | XY     |        |









### L-port only in DMN 16 si DEH 16 type directional control valves Model code PBD 16-1 Weight : 3,200 kg

fixing screws M10x60 SR ISO 4762:1993, gr.10.9. Tightening torque 50<sup>+10</sup>daNm fixing screws M6x60 SR ISO 4762:1993, gr.10.9. Tightening torque 11<sup>+3</sup>daNm Screws delivered separately.

## MODEL CODE

### 123-4-567\*\*-8\*\*-9\*\*/10\*\*-11\*\*-12\*\*/\*

\* For climatic protected model, add /T1 or t2 at the end of the model code. \*\* Only for DEH 16 valves

- 1 . D Hydraulic directional control valve
- 2. Valve actuation
  - MN hand lever operated, for DMN 16
  - EH electrically-hydraulically operated, for DEH 16
  - H direct oil operated for DH 16
- 3.16 Nominal bore
- 4. Valve functions conforming to table.
- 5. Shifting time adjusting:
- -w/out
- T-with (only for DEH 16 and DH 16)
- o-Series (only for DMN 16)
- 6. Control flow limiting:
- -w/out
- T-with (only for DEH 16)
- o-Series (only for DH 16)
- 7. Differential actuating of spool
- -w/out
- D-with
- 8. Operating directional flow connections
- XY
- PT(except for open centre or underlap functions)
- PY
- XT
- 10,Voltage (v) frequency (Hz)
- DC -012/00
- -024/00
- AC -20/50
  - -110/50
  - -220/50
- 11.S-Plug-in connector
- 12.O-Series