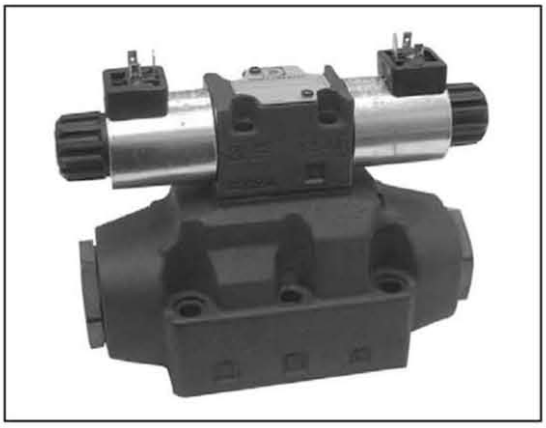
41 420/107 ED



DSP7

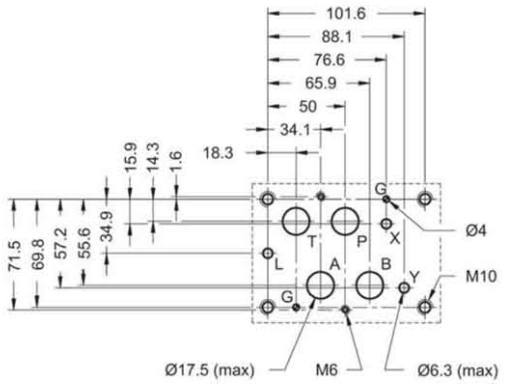
PILOT OPERATED DISTRIBUTOR SOLENOID OR HYDRAULIC (DSC7) CONTROLLED

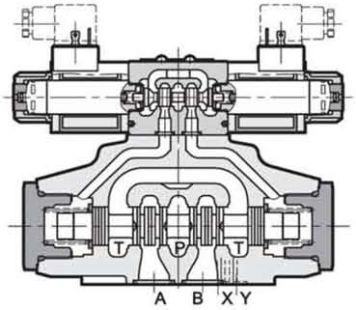
SUBPLATE MOUNTING
ISO 4401-07 (CETOP 07)

p max (see table of performances)
Q max **300** l/min

MOUNTING INTERFACE

ISO 4401-07-06-0-94
(CETOP 4.2-4-07-320)





— The DSP7 piloted valve is made up of a 4-way hydropiloted distributor ISO 4401-07 (CETOP 07) with a connection surface in accordance with the ISO 4401 (CETOP RP121H) standards, operated by a ISO 4401-03 (CETOP 03) solenoid directional valve.

— It is available with different spool types (see par. 2) and with some options for the opening control.

— It is available with both the solenoid and the hydraulic control from the X and Y ways .

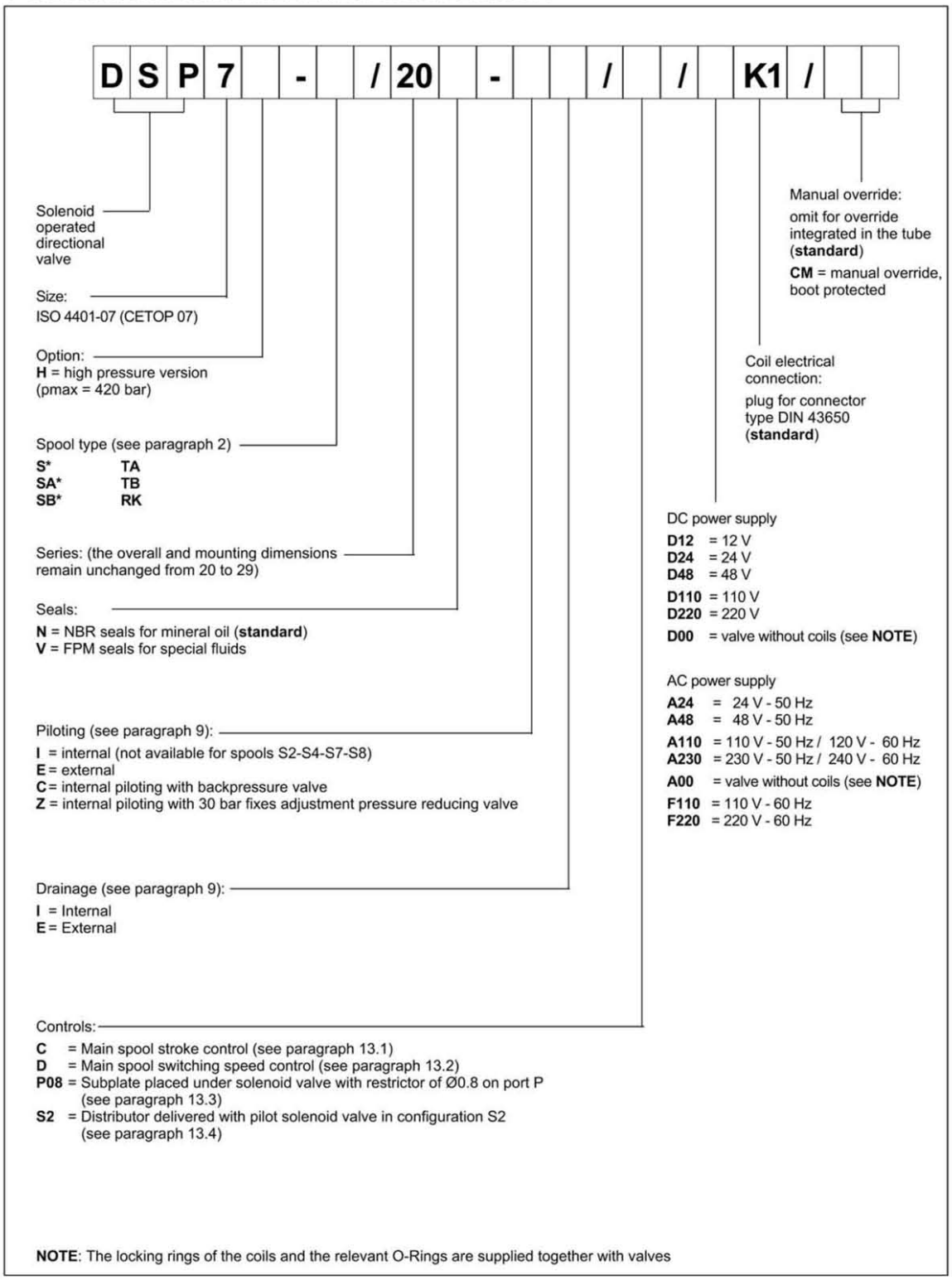
— The piloting and the drainage can be made inside or outside the valve, by inserting or removing the proper threaded plugs located in the main directional control valve (see paragraph 9).

PERFORMANCES (obtained with mineral oil of viscosity of 36 cSt at 50°C)

Maximum operating pressure - ports P - A - B (standard version) - ports P - A - B (version H) - port T (external drainage)	bar	 320 420 250
Maximum flow rate from port P to A - B - T	l/min	300
Ambient temperature range	°C	-20 / +50
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree	according to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass: DSP7-S, RK DSP7-T*, SA*, SB* DSC7	kg	8,6 8,0 6,6

DSP7

1 - IDENTIFICATION CODE FOR SOLENOID DISTRIBUTOR DSP7



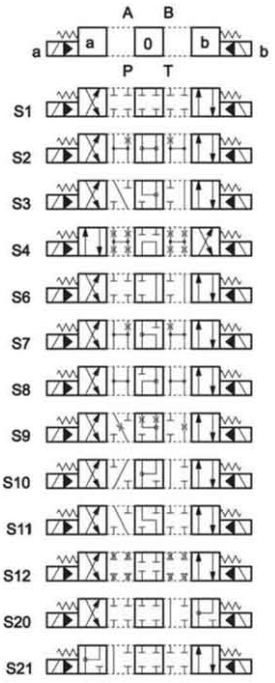
NOTE: The locking rings of the coils and the relevant O-Rings are supplied together with valves

DSP7

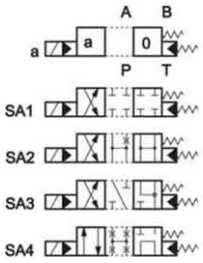
2 - SPOOL TYPE

N.B.: Symbols refers to the **DSP7** solenoid valve.
For the **DSC7** hydraulic control version, please verify the connection scheme at paragraph 3.

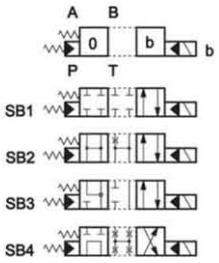
Type **S***:
2 solenoids - 3 positions
with spring centering



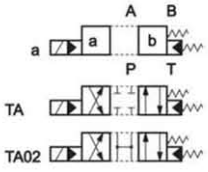
Type **SA***:
1 solenoid side A
2 positions (central + external)
with spring centering



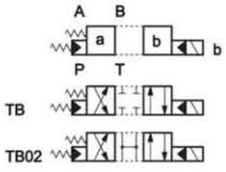
Type **SB***:
1 solenoid side B
2 positions (central + external)
with spring centering



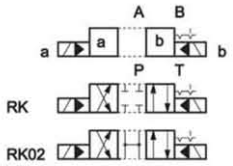
Type **TA**:
1 solenoid side A
2 external positions
with return spring



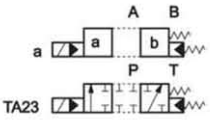
Type **TB**:
1 solenoid side B
2 external positions
with return spring

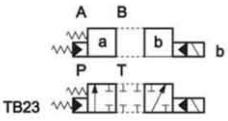


Type **RK**:
2 solenoids - 2 positions
with mechanical retention



Type **TA23 / TB23**
three-way valve - 1 solenoid - 2 external positions, return spring

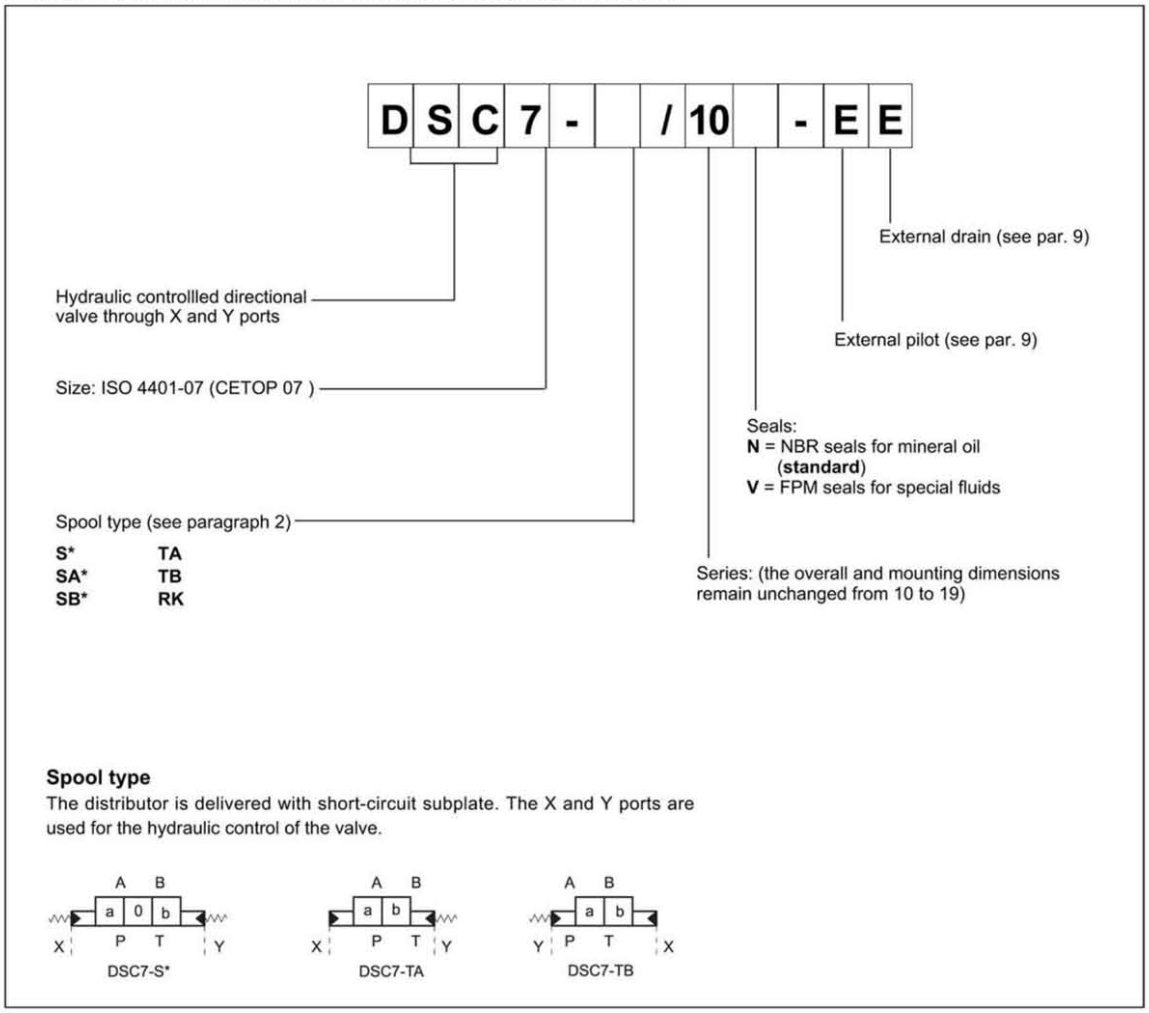




Besides the diagrams shown, which are the most frequently used, other special versions are available:
consult our technical department for their identification, feasibility and operating limits.

DSP7

3 - IDENTIFICATION CODE FOR HYDRAULIC DISTRIBUTOR DSC7



Spool type

The distributor is delivered with short-circuit subplate. The X and Y ports are used for the hydraulic control of the valve.

4 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.
The fluid must be preserved in its physical and chemical characteristics.