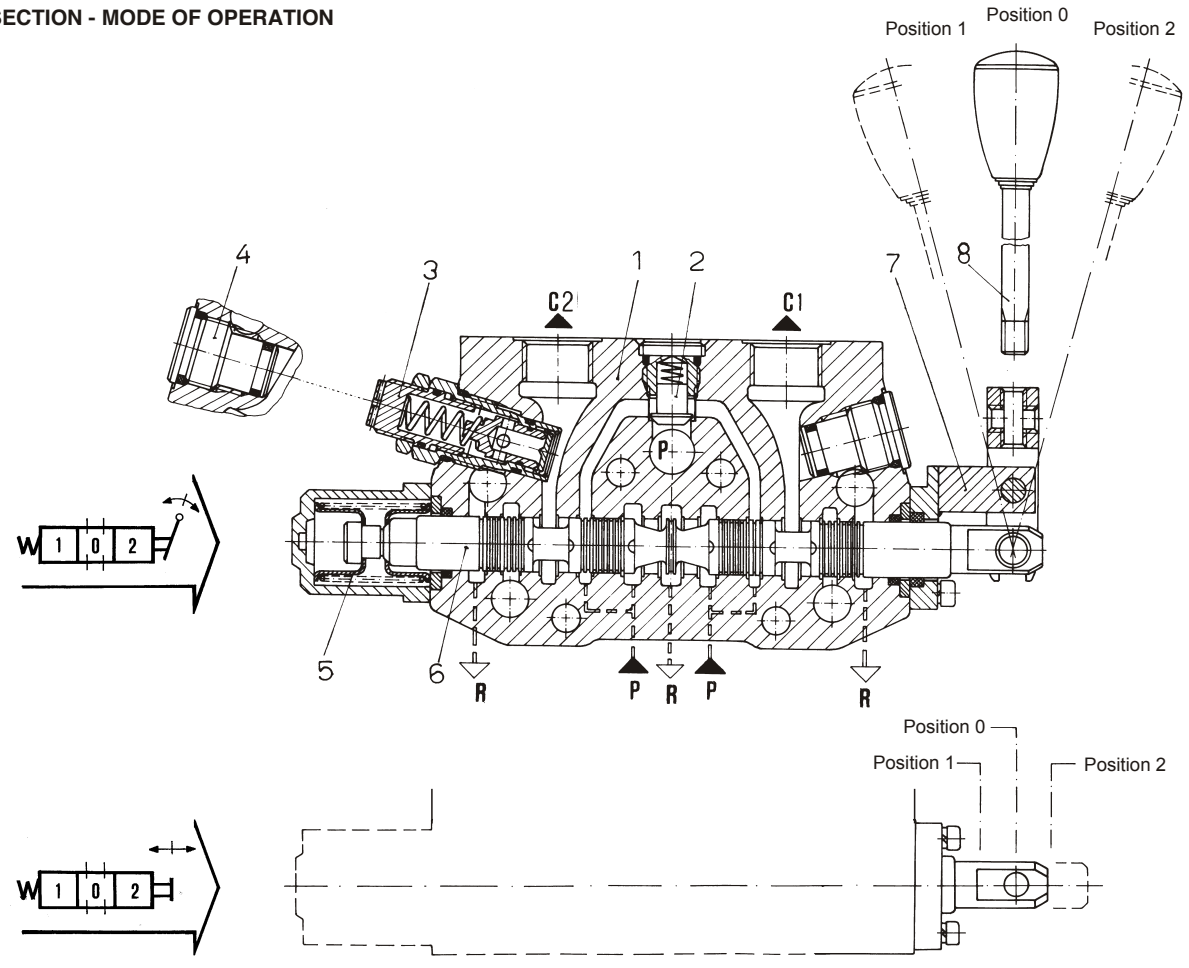
Directional control valves 220 - 8, ND. 16

SECTIONAL, SPOOL TYPE, HAND AND / OR HYDRAULICAL, EL. HYDRAULICAL, PNEUMATICAL OPERATED

- Simple design with longitudinally sliding spool. The spool are designed with ring - grooves and radially a rranged cuts to triangular form
- Sectional elements can be built - in sandwich system (max 10), with input plate, primary pressure relief valve and output plate
- Parallel, tandem and mixed circuit
- In the event of series circuit of two sectional directional valves on outlet plate, there is the additional port (P1)
- Numerous combinations and variations of the fluid distribution
- Applicable for heavy duty operations (e. g. building - construction and agriculture machines etc.)
- Housing made of high - grade modular casting
- Long life

SECTION - MODE OF OPERATION



1. Housing
2. Check valve
3. Secundary valve
4. Secundary valve or plug
5. Centred lement
6. Spool
7. Actuation element
8. Lever

TECHNICAL DATA

GENERAL

Nominal size	16
Symbol	See designation
No of distribution sections	1...10
Mounting position	Optional
Ambient temperature (℃)	...+50

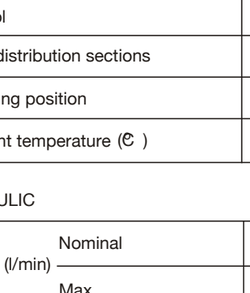
HYDRAULIC

Flow (l/min)	Nominal	60
	Max	120
Pressure (bar)	Line P	250
	Lines C1, C2...	310
	Line R	30
	Control lines a, b...	max 30
Working fluid	mineral oil	
	viscosity (mm^2 s)	11,6 - 230
	temperature (℃)	-20 ... +70

ACTUATION METHOD

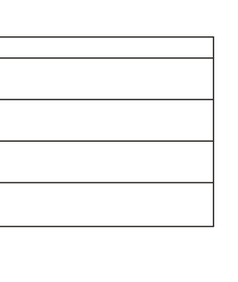
Hand / hydraulic - spool stroke (mm)	7

CIRCUIT METHOD (EXAMPLES)

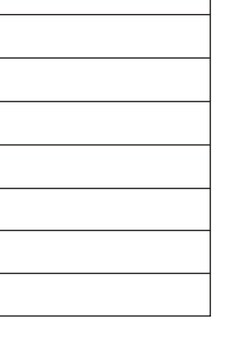


1. Parallel circuit
At individual operation of the distribution sections,the function of conventional sliding control valve is attained. By simultanous operation with several distribution sections, motion of larger number of actuators is made possible, beginning firstly from the one that is the least loaded. By throttling of the oil flow by positioning of the spool to on intermediary position, the simultanous motion of several actuators can be effected.

2. Tandemcircuit
At operation with one section, the fluid flow to the next sections is broken. By this circuit, moder eliable operation is achieved in case that motion of only one actuator is needed.



3. Mixed circuit
a) Distribution section with parallel circuit, being fitted ahead of the section with tandem circuit, provides such a tandem circuit for all other sections
b) The tandem circuit section being fitted ahead of the parallel circuit section provides such all other sections



DESIGNATION

Note:
1. On the basic of the designation formed, we send separate mounting drawing, symbol and code
2. Additional requerements are to be formed in descriptive manner (e. g. to build in secondari valves in sections...)

BASIC DESIGNATION

220 - 8 * 400 - * / ****

- Additional designation for evry section[1)]
- Connection ports: 1= threaded pors; 2= flanged ports
- Output plate: 1= with connect. port P1; 2= without connect. port P1
- Inlet plate: 1= with relief valve; 2= without relief valve
- No. of distribution sections: 1= jedna / one; 2= dve / two; ..... ; 10= deset / ten

[1)] Arrangement section: from input plate to along

ADDITIONAL DESIGNATION FOR EVERY SECTION

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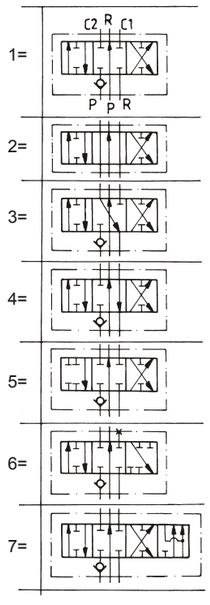
- Circuit type: P = paralell, T = tandem
- Distribution (symbol):
- Actuating (symbol):
- Centring (symbol):

Distribution (symbol):



Actuating (symbol):

1=	Hand
2=	Hand
3=	Hydraulical
4=	Pneumatical
5=	Hydraulical [4)]
6=	Mixed [5)]

Centring (symbol):

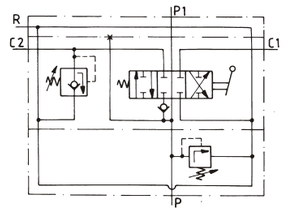
1=	Neutral position, spring centred [2)]
2=	Position "1" detent [3)]
3=	Position "2" detent [3)]
4=	Position "1","2" detent [3)]
5=	Position "3" detent [3)]
6=	Position "1","2","3" detent

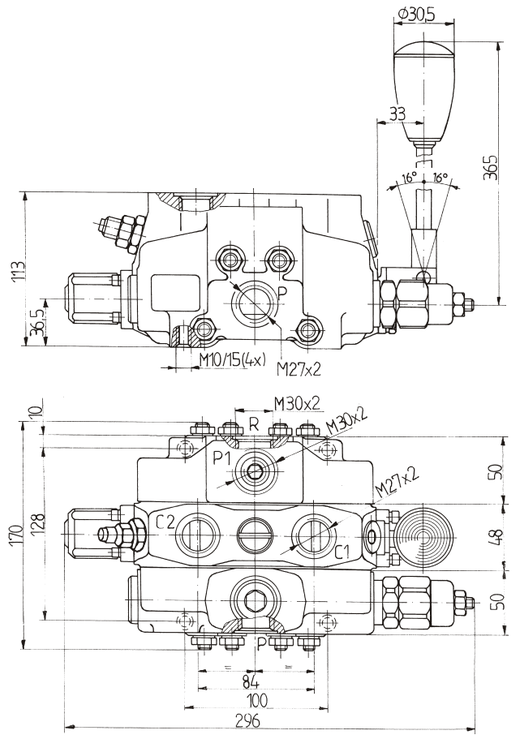
[2)] For all mode of actuation
[3)] Only for hand actuation
[4)] Only to mixed with 4 - position distribution (synbol 7)
[5)] Electric - hydraulic - hand

MOUNTING DRAWING (dimensions in mm)

Designation **220 - 81400**
Mass: 13kg

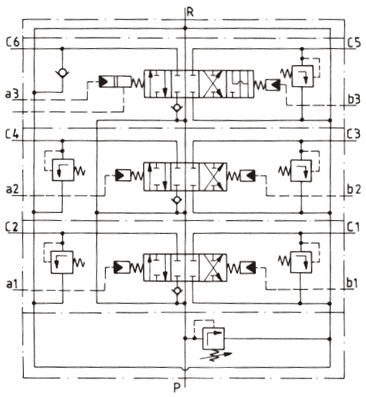
Symbol:

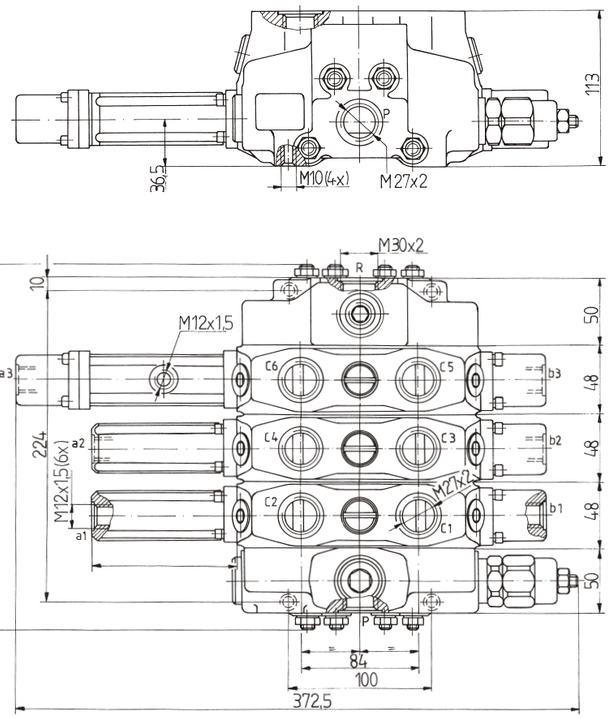




Designation **220 - 83400H**
Mass: 27kg

Symbol:





WARNING

Errors in the selection or use of the products and / or systems described, can cause serious personal injury and property damage.
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