HYDRAULIC SECTIONAL VALVES PC70

Compact and heavy-duty sectional valve with 1 to 8 sections, designed for open and closed centre hydraulic systems and a wide range of applications.

These hydraulic valves are suitable for various machines such as cranes, backhoe excavators, compactors, skid steer loaders, and similar equipment.

• Equipped with a main pressure relief valve and a load check valve.

• Available with parallel, tandem, and series circuits.

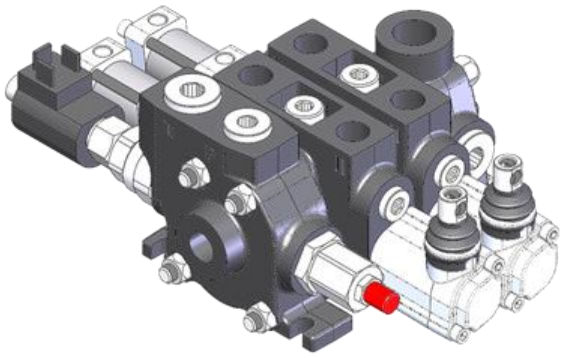
• Optional power beyond port for parallel and tandem circuits.

• Interchangeable spools with a diameter of 18 mm.

• Wide range of configuration options.

• Floating spools and kits, regenerative spools and kits, and pressure-release detent kits (kick-out) do not require additional machining of the valve body.

• Actuation options: manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, or remote control using flexible cable spool control kits.



APPLICATIONS

Agriculture

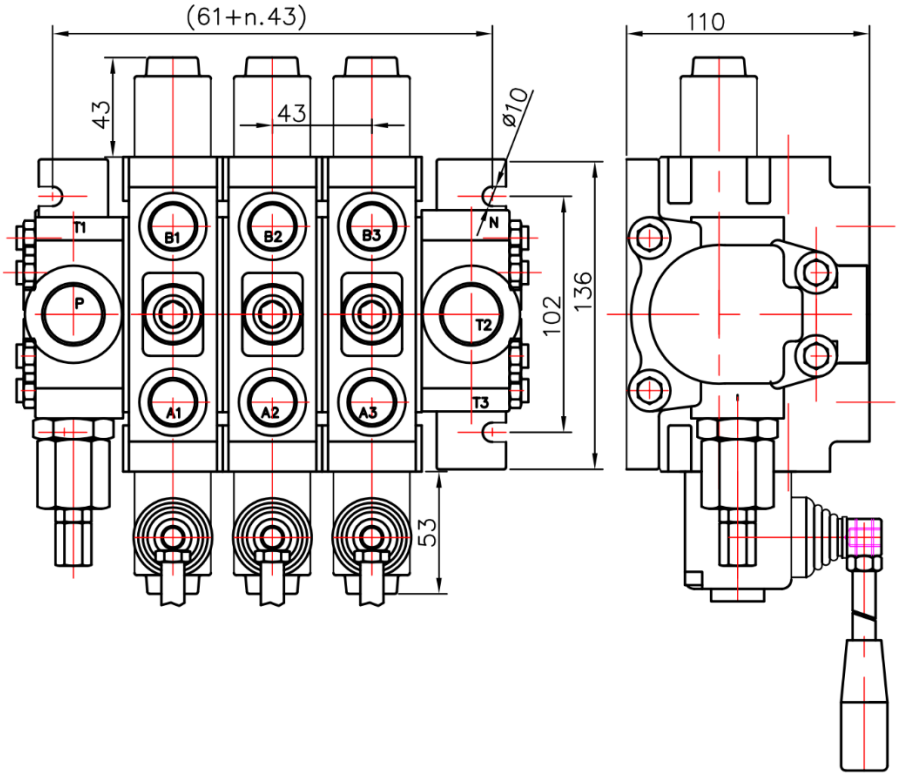
Construction and Earth moving

Material handling

Forestry trailer

Specifications:

Hydraulic fluid	mineral oil based hydraulic oil
Viscosity	20-100 mm²/s recommended range
Operating pressure (max.)	250 bar
Back pressure (max.)	50 bar
Nominal flow	70 l/min
Max. number of sections	8



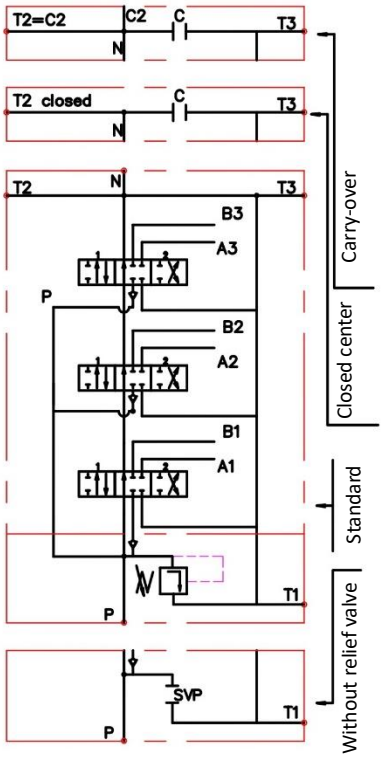
Order code

3 PC70 R N2/PA1/PA8AyBz/PD1/T2 /G KZ1 P E C2

3	Number of spools
PC70	Directional control valve type
R	Inlet high pressure – right
N2	Type of the inlet section
PA1	First spool distribution type
PA8AyBz	Second spool distribution type
PD1	Third spool distribution type
T2	Type of the outlet cover (T port)
/G	Threads (P, A, B, T, N)
KZ1	Lever options
P	Operation features
E	With electric microswitch
C2	High pressure carry-over (power beyond)

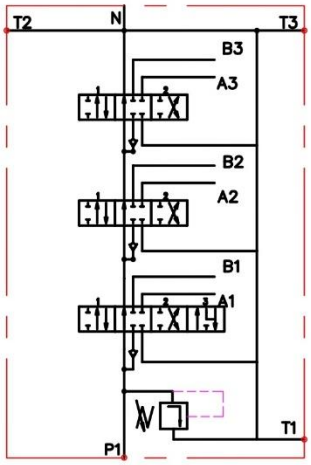
Parallel circuit

3PC70 N2/ PA1/PA1/PA1/T2



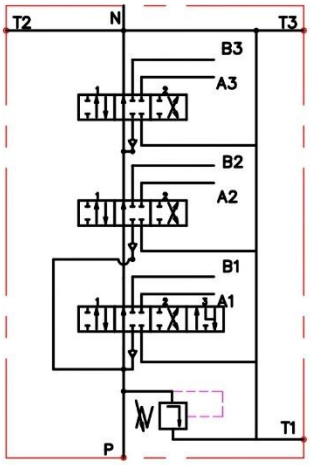
Tandem circuit

3PC70 N1/ TL12/TA1/TA1

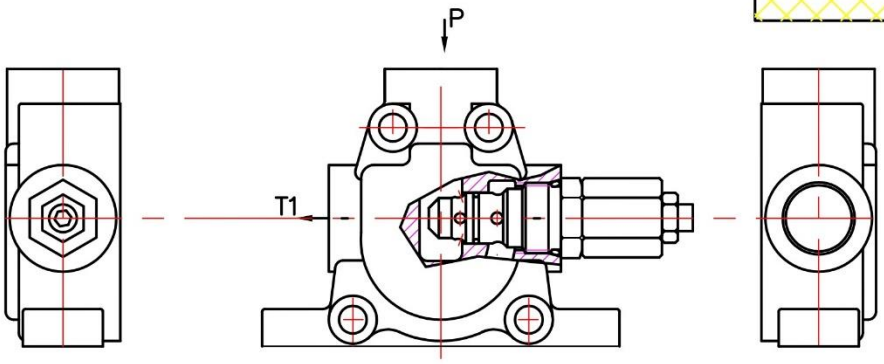


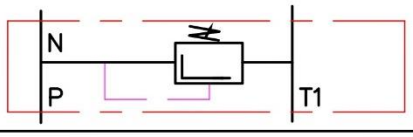
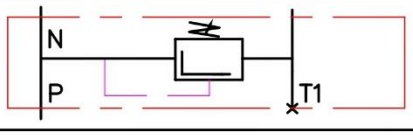
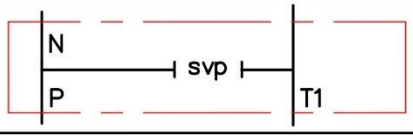
Mixed circuit

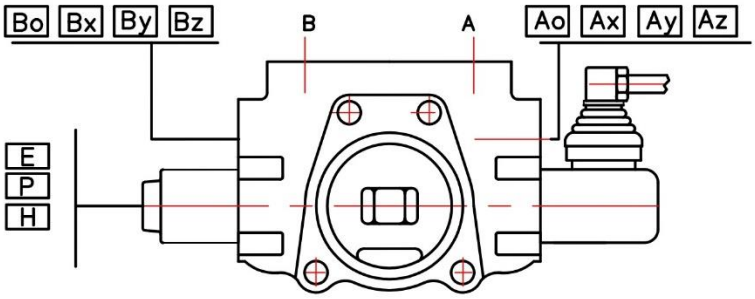
3PC70 N1/ PL12/PA1/TA1



Inlet cover



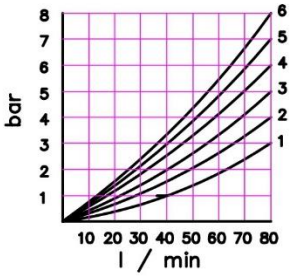
code	Inlet cover
N1	
N2	
N1svp / N2svp	



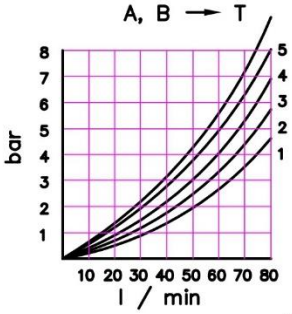
Control valve

Operating diagrams

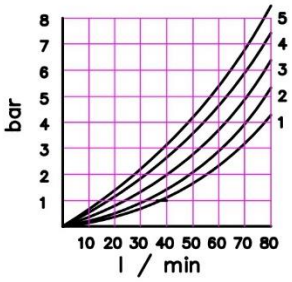
P→T



A, B → T



P→A, B



code	Spool type
A	
B	
C	
D	
E	
F	
G	
H	
L	

code	Spool control
1	1 0 2
2	1 0 2
3	1 0 2
4	0 2
5	1 0
6	1 2
7	1 2
8	1 0 2
9	1 0
10	0 2
11	1 2
12	1 0 2 3
13	1 0 2 3

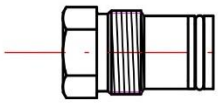
code	Threads			code	Way of distribution of oil
	P,A,B	T	N	P	Parallel
standard G	1/2"	3/4"	M26x1.5	T	Tandem
M	M22x1.5	M26x1.5			

code	With electric switch	
E		Microswitch Omron – V 165 I C5

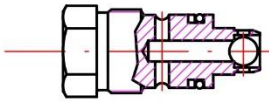
code			
P		pneumatic	pn = 6 bar
H		hydraulic	pn = 6 – 20 bar

Ao	Bo	Plug for A and/or B
Ax	Bx	Anti cavitation valve for A and/or B
Ay	By	Second pressure relief valve for A and/or B
Az	Bz	Schockabsorber valve for A and/or B

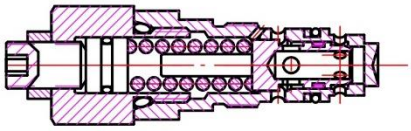
Plug "o"



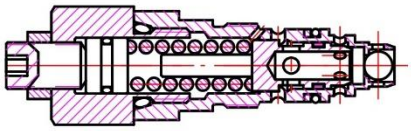
Anticavitation valve "x"

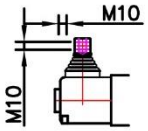
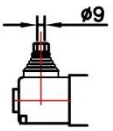
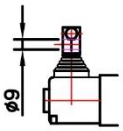
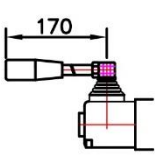
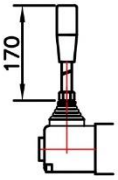
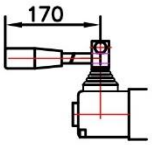
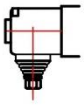
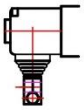
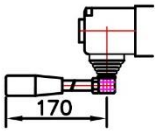
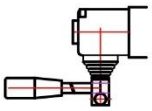


Second relief valve "y"



Combined parf relief and anticavitation valve "z"



code	Feature	code	Feature	code	Feature
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
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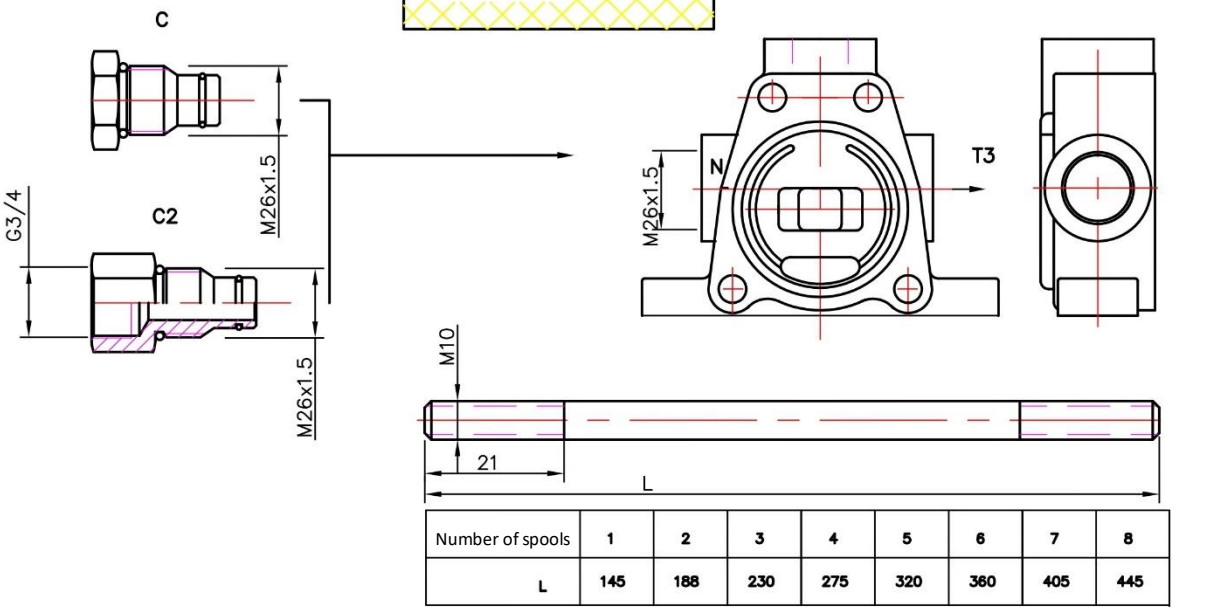
End plate

T or T2=C2

High pressure carry-over



Number of spools	1	2	3	4	5	6	7	8
L	145	188	230	275	320	360	405	445

*C – C in port N + plug in T2 – closed center
**(T2=C2) – C in port N – carry over in T2
***C2 – C2 in port N + Plug in T2 – carry over in N