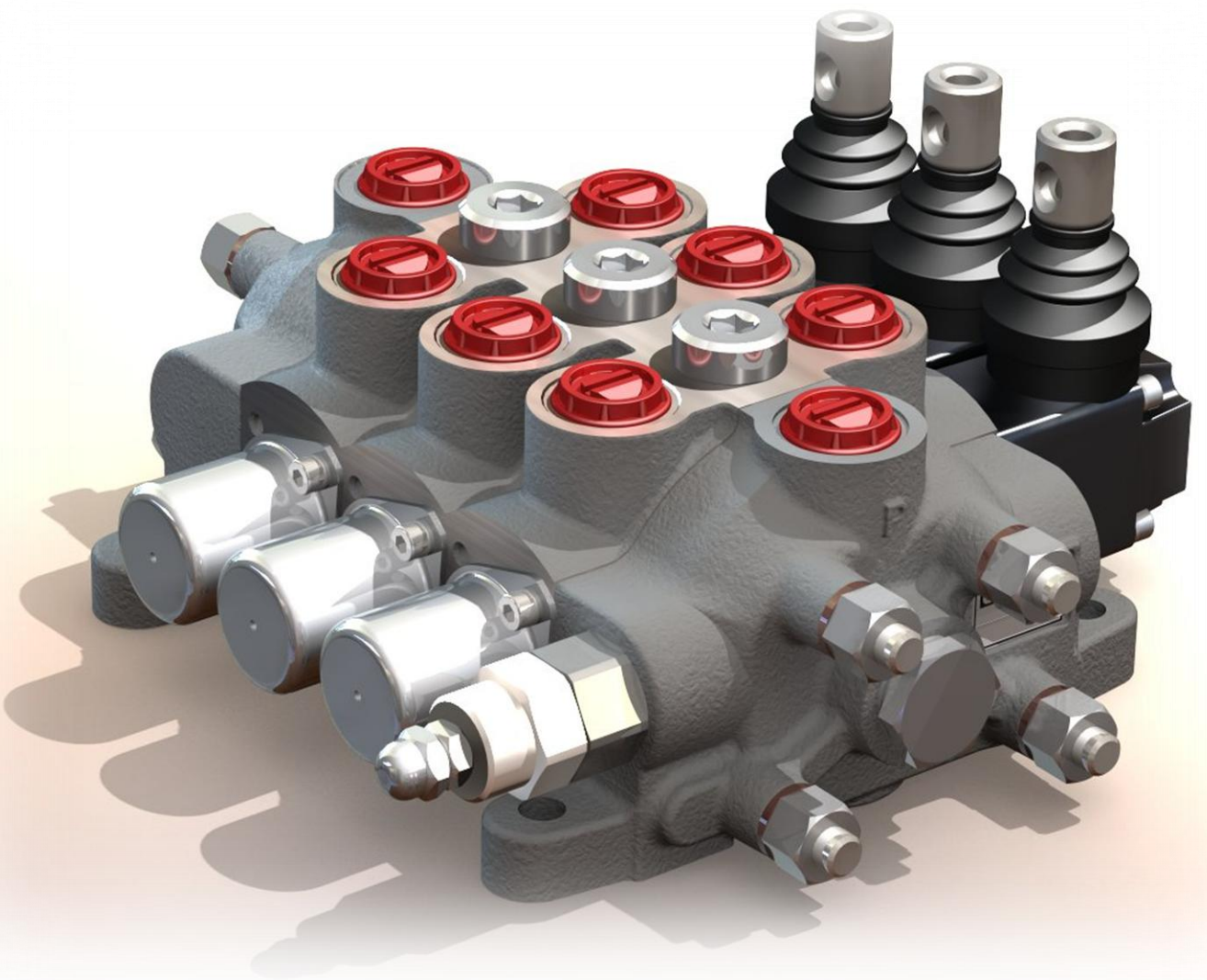
SECTIONAL VALVE

KV 10



KV 10

General Features

Standard Material Specifications

- High strength cast iron
- Hard chrome plated interchangeable spools
- Steel spring caps
- Aluminum lever caps
- NBR seals

Standard Features

- Parallel circuit
- Adjustable main relief valve
- Load hold check valve in each section
- Double action

Optional Features

- Series, tandem circuits
- Variety of spool types
- Closed center
- Carry-over option
- Single action

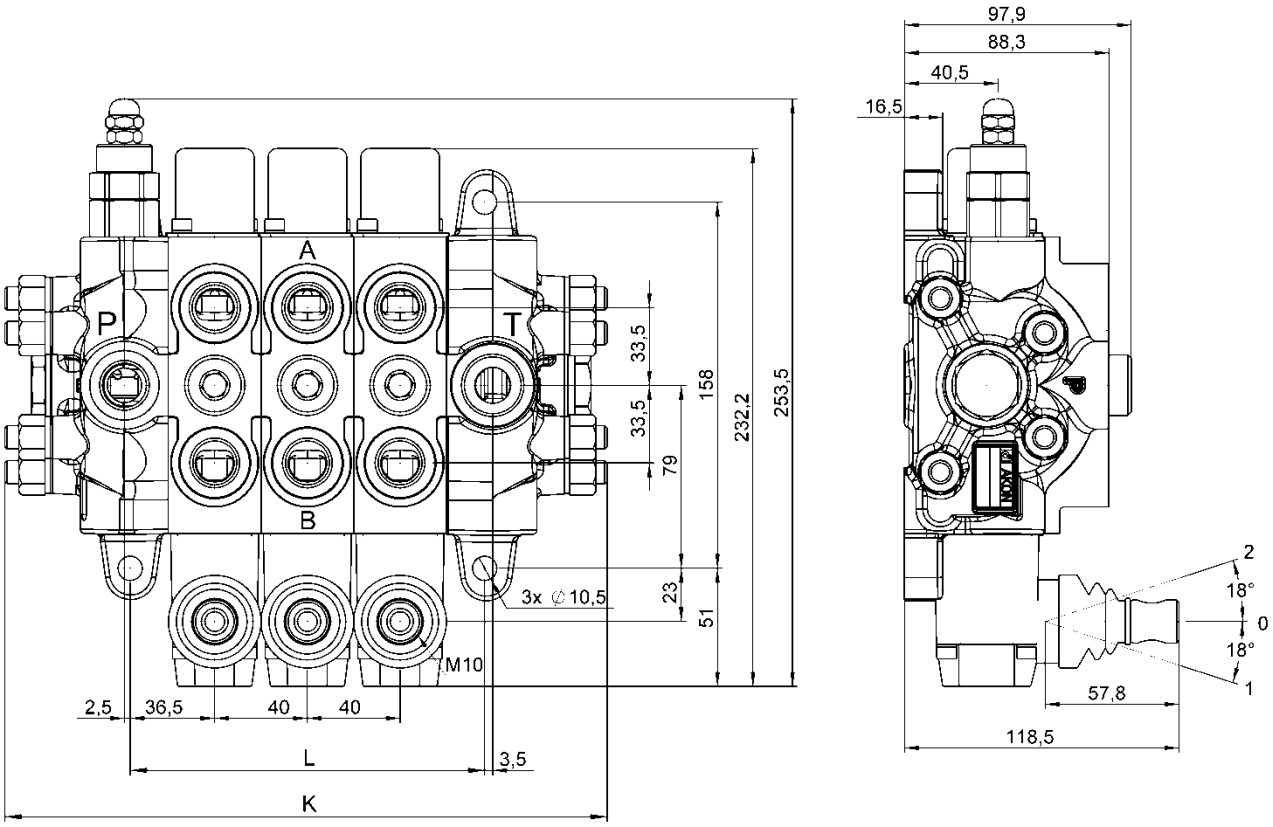
Technical Specifications

Number of spools	**1-10 (Please ask for special orders more than 10 spools)**
Nominal flow	**70lt/min**
Max. Operating pressure	**320 Bar**
Max. Back pressure	**30 Bar**
Tie rod tightening torque	**30 Nm**
Internal leakage (at 100 Bar; 32 cSt,	**4 to 9 cc/min**

Working Conditions

Recommended oil viscosity range	**10 cSt to 75 cSt**
Recommended oil filtering	**β 10 ≥ 75**
Recommended fluid temperature range	**-20 to +80**
Environmental temperature range	**-35 to +60**
Max. Contamination level	**Class 9 (NAS 1638)** **19/16 (ISO 4406)**

Dimensional Data

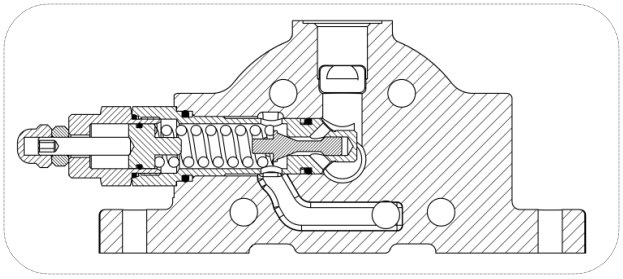


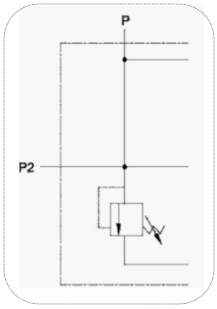
Type	L (mm)	K (mm)	W (kg)
KV 10/1	73	180	8,50
KV 10/2	113	220	11,30
KV 10/3	153	260	14,15
KV 10/4	193	300	17,00
KV 10/5	233	340	19,80
KV 10/6	273	380	22,65
KV 10/7	313	420	25,45
KV 10/8	353	460	28,30
KV 10/9	393	500	31,10

INLET COVER

STANDARD THREADS	
CODE	P
B	G ½

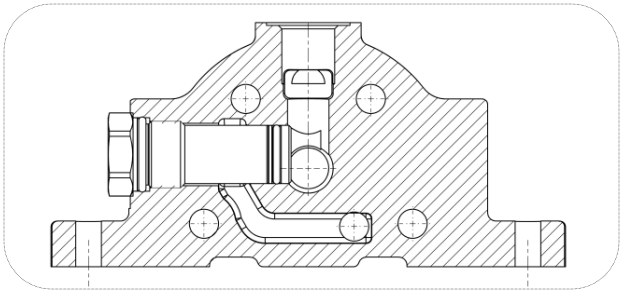
MAIN RELIEF VALVE

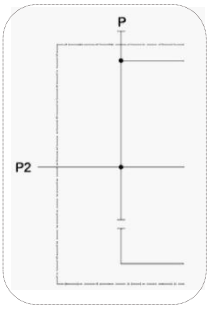




CODE : R

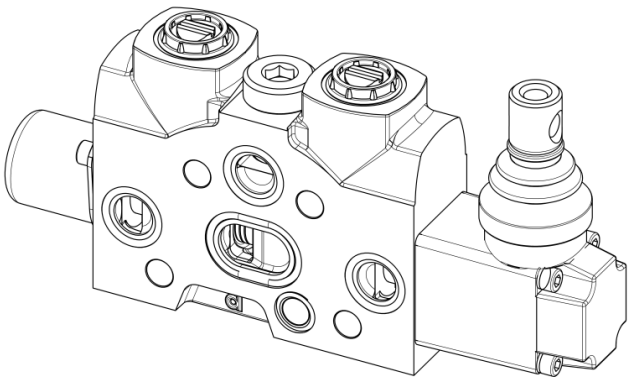
NO MAIN RELIEF VALVE





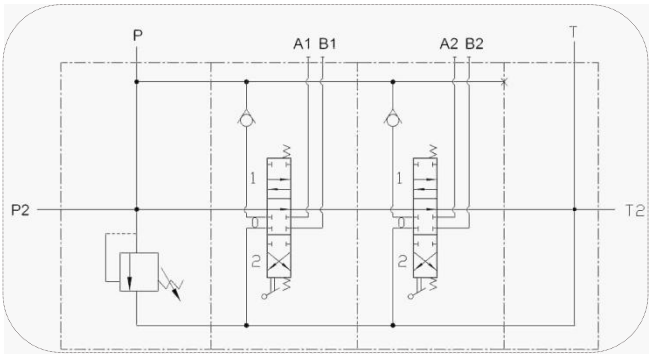
CODE : Y

WORKING SECTION



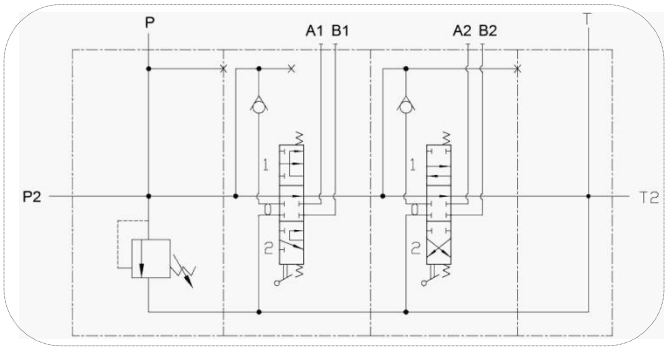
STANDARD THREADS	
CODE	A/B
B	G ½

PARALLEL CIRCUIT



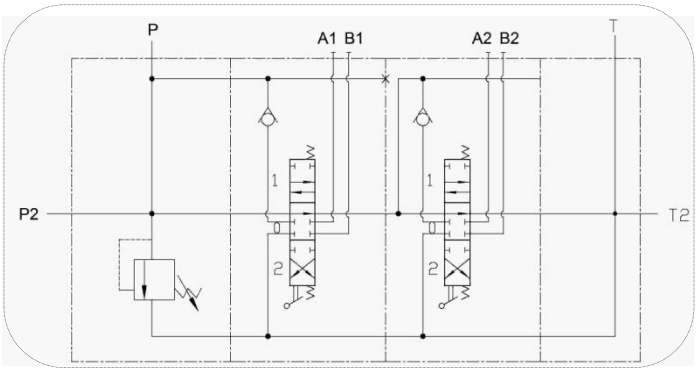
NO CODE

SERIES CIRCUIT



CODE : S

TANDEM CIRCUIT

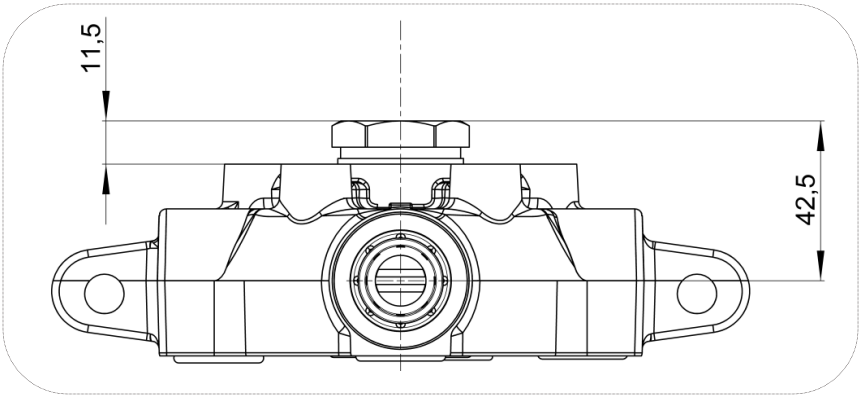


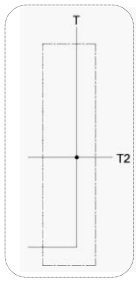
CODE : T

OUTLET SECTION

STANDARD THREADS	
CODE	T
B	G ½
C	G ¾

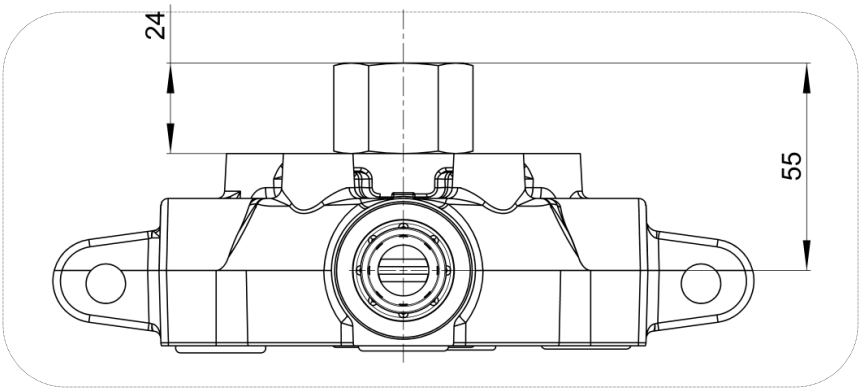
STANDARD

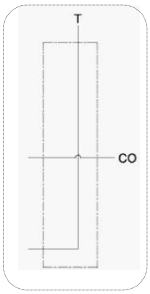




NO CODE

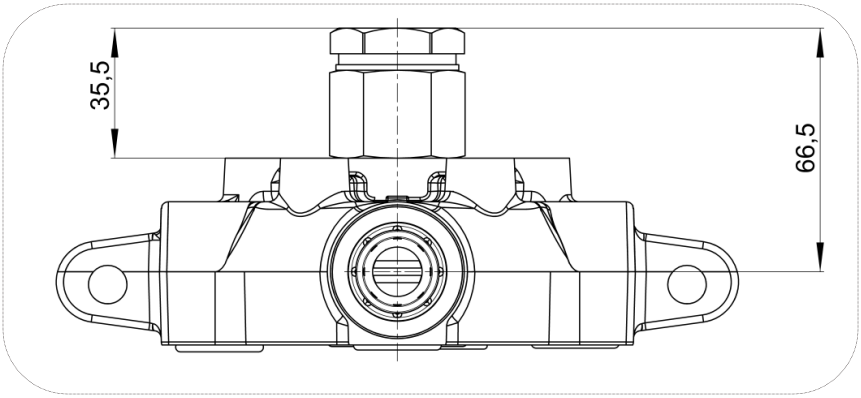
CARRY-OVER PLUG

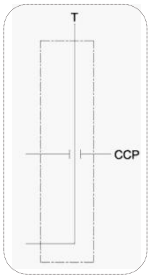




CODE : H

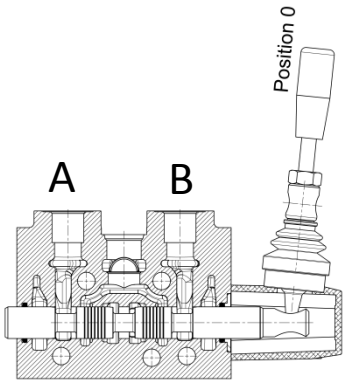
CLOSED CENTER PLUG





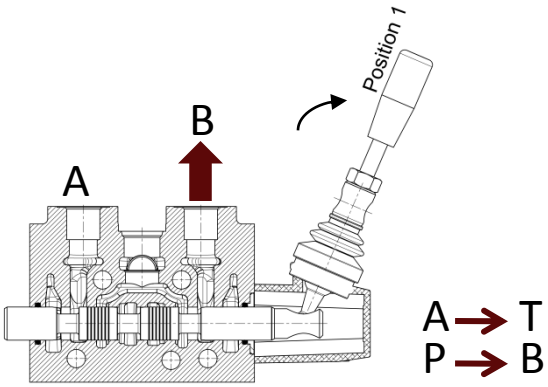
CODE : K

Spool Control Positions



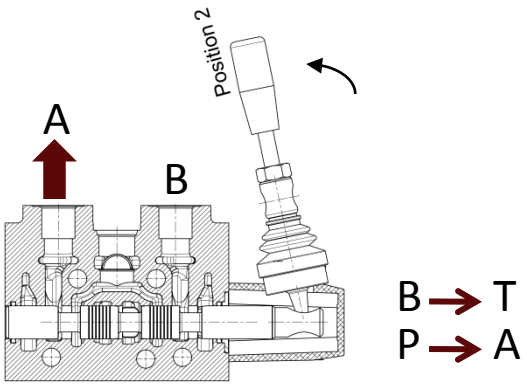
Spool-neutral position;

POSITION 0



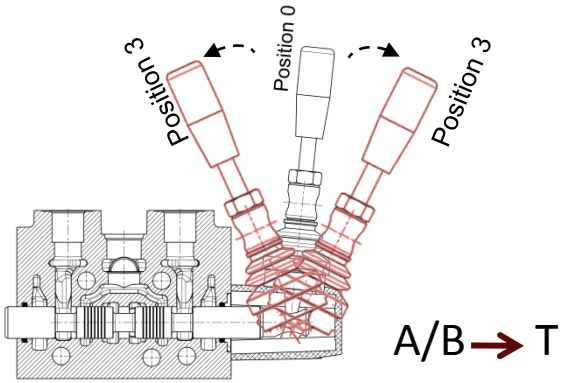
Spool-out position;

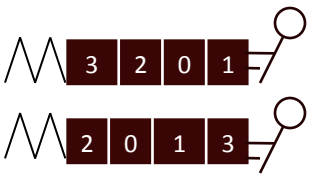
POSITION 1



Spool-in position;

POSITION 2

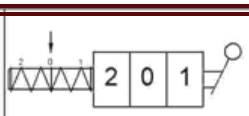
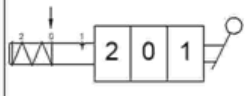
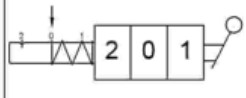
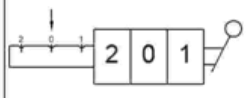
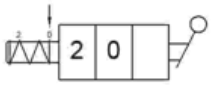
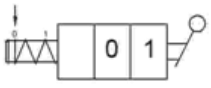
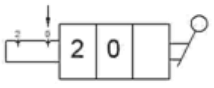
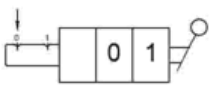
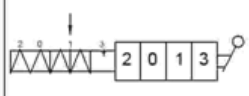
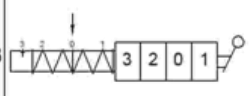
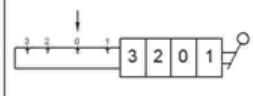
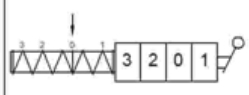
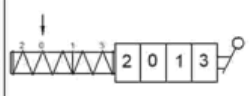


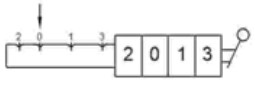
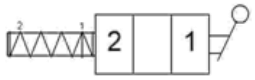
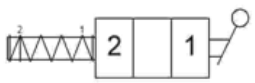
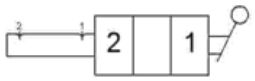
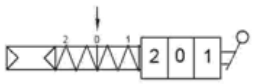
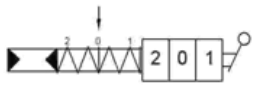
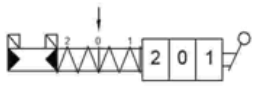
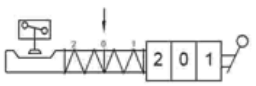
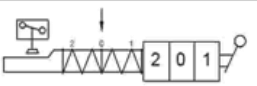
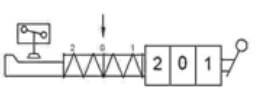
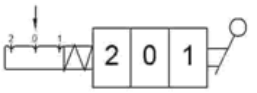
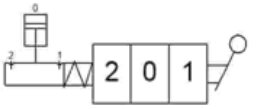


4 positions and 4th position can be spool-in or spool-out position optionally;

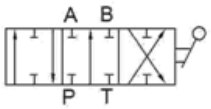
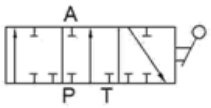
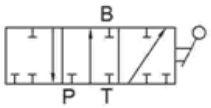
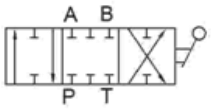
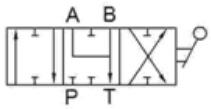
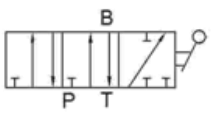
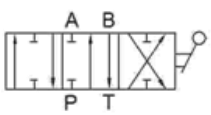
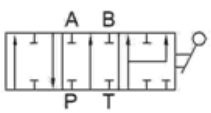
POSITION 3

Spool Control Coding For KV10

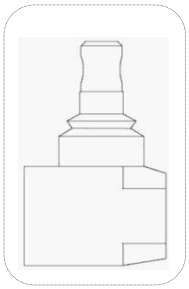
SC1		3 positions spring centered
SC2		3 positions spring centered, detent in 1st position
SC3		3 positions spring centered, detent in 2nd position
SC4		3 positions , detent in all positions
SC5		2 positions spring centered
SC6		2 positions spring centered
SC7		2 positions, detent in both positons
SC8		2 positions , detent in both positions
SC9		4 positions spring centered, detent in 3st position
SC23		4 positions spring centered, detent in 3rd position
SC10		4 positions , detent in all positions
SC21		4 positions, all spring centered
SC22		4 positions, all spring centered

SC24		4 positions , detent in all positions
SC11		2 positions spring centered in 1st position
SC12		2 positions spring centered in 2nd position
SC13		2 positions , detent in both positions
SC15		3 positions pneumatic control
SC16		3 positions hydraulic control
SC17		3 positions electro-hydraulic control
SC18		3 positions microswitch operated in both positions
SC19		3 positions microswitch operated in 1st position
SC20		3 positions microswitch operated in 2nd position
SC28		3 positions, spring centered and detent with spring in all positions
SC29		Hydraulic Kick-out

Spool Types Coding For KV 10

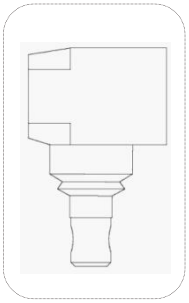
ST1		3 position Double acting spool
ST2		3 position Single acting on A side
ST3		3 positon Single acting on B side
ST4		3 position Closed center spool
ST11		3 position Double acting spool A and B to tank
ST9		4 position Double acting with float on 4th position
ST10		4 position Double acting, regenerative in 4th position
ST5		3 position Single acting spool A open to tank
ST6		3 position Single acting spool B open to tank
ST7		3 position Double acting spool A to tank, B blocked
ST8		3 position Double acting spool B to tank, A blocked
ST12		3 position Double acting spool P open to A and B in 2nd position

LEVER TYPES CODING FOR KV 10



NO CODE

Standard Lever

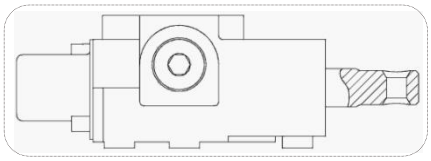


CODE : K1

Reverse Lever

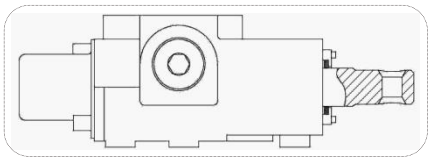
CODE : K2

No Lever



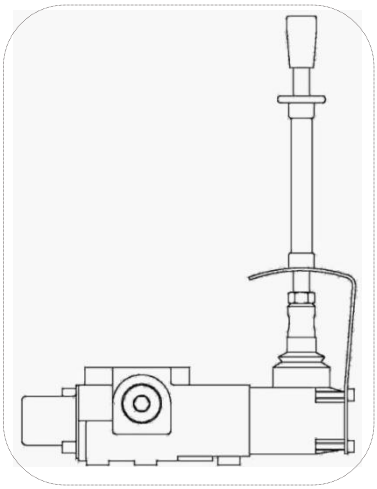
CODE : K3

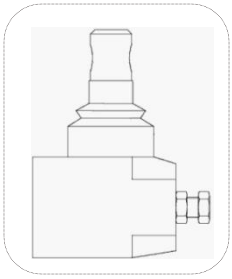
Without Lever with dustproof plate



CODE : K4

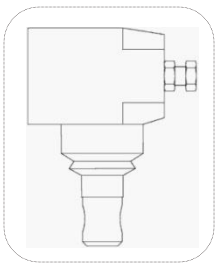
Safety Lever





CODE : K5

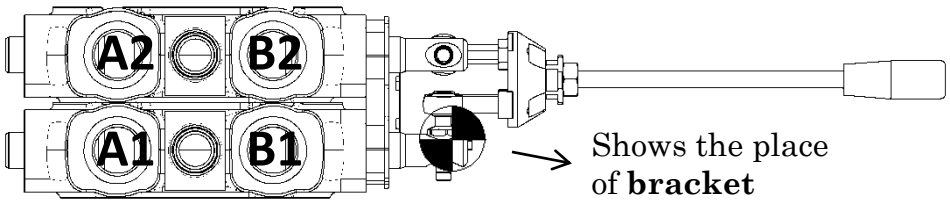
With Spool Limiter

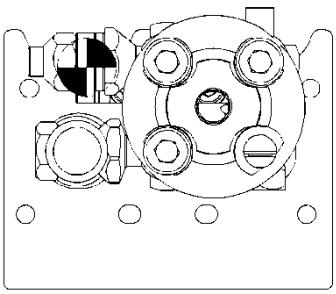


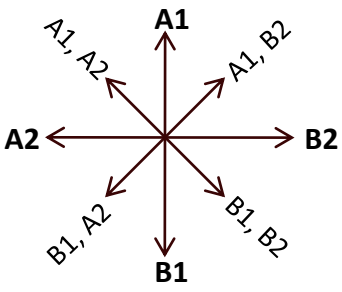
CODE : K6

Reverse Lever with Spool Limiter

Lever Types Coding For KV 10



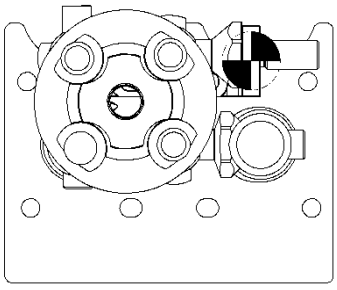


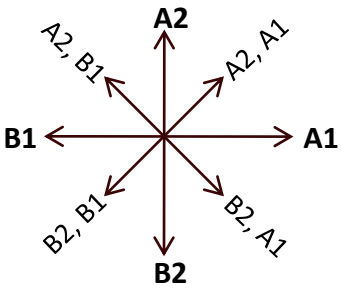


CODE : K7-A

Manual joystick for 2 spools, bracket placed on top-left

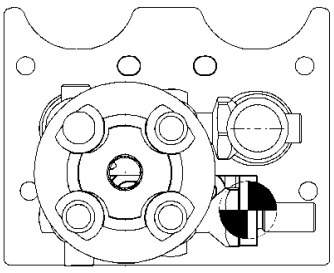
*** If not specified this code will be standard**

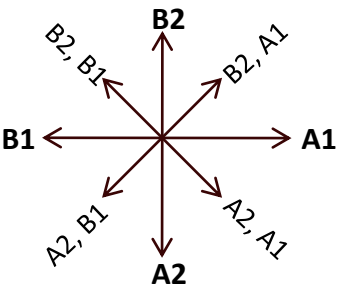




CODE : K7-B

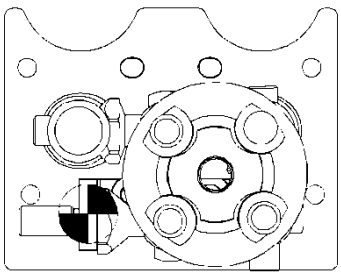
Manual joystick for 2 spools, bracket placed on top-right

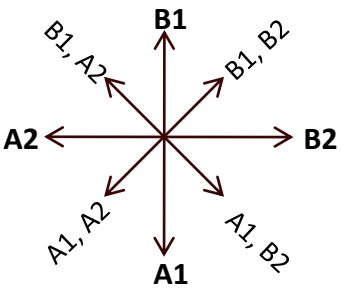




CODE : K7-C

Manual joystick for 2 spools, bracket placed on down-right

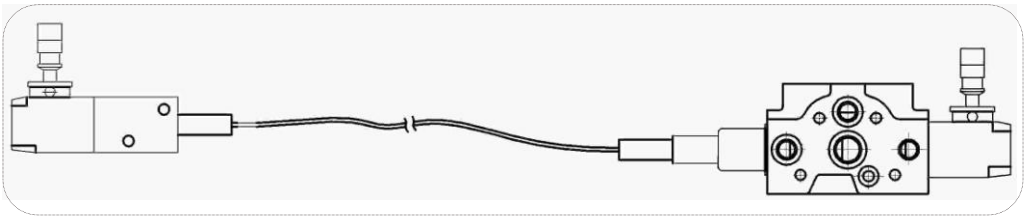




CODE : K7-D

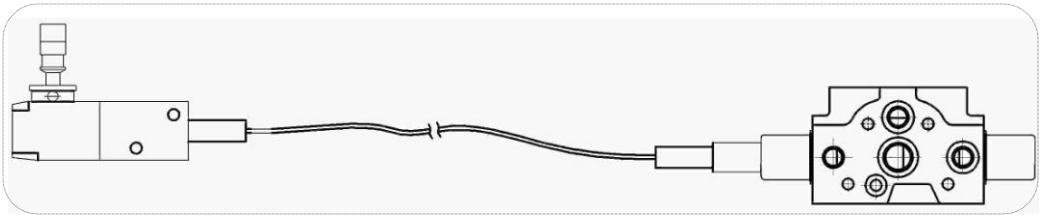
Manual joystick for 2 spools, bracket placed on down-left.

LEVER TYPES CODING FOR KV 10



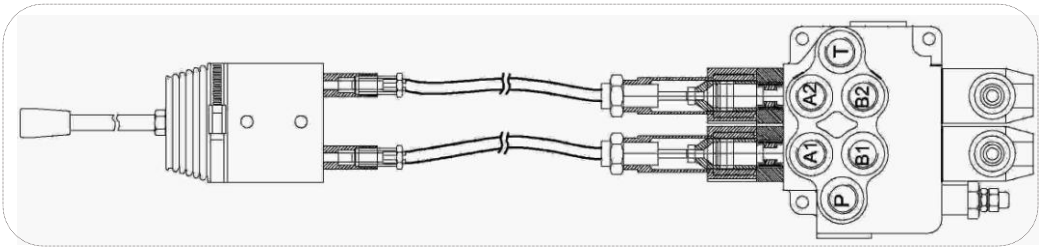
CODE : K8

Cable remote control on spring cap side



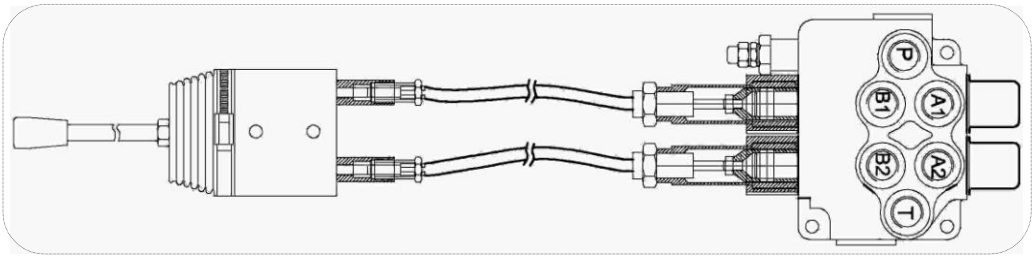
CODE : K9

Cable remote control on lever cap side



CODE : K10

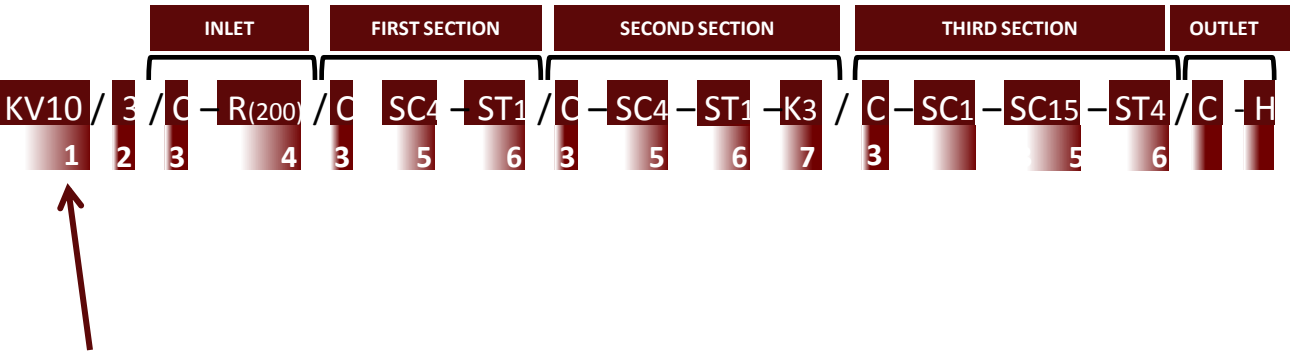
Remote joystick control on spring cap side



CODE : K11

Remote joystick control on lever cap side

AN ORDERING EXAMPLE



1	**Valve Type**	
2	**Number Of Spools** (from 1 to 8 spools) (please ask for mor esections)	
3	**Port Threads (P, A/B, T)**	B : G ½
		C : G 3/4
4	**Main Relief Valve**	Y : Without main relief valve
		R : With main relief valve (indicate pressure setting)
5	**Spool Controls and Actuators**	See page 8 (if necessary indicate more thanone spool control or actuator)
6	**Spool Types**	**See page 9**
7	**Lever Types**	**See page 10-13**
8	**Outlet**	No code for standard
		H : High pressure carry-over
		K : Plugged for closed center