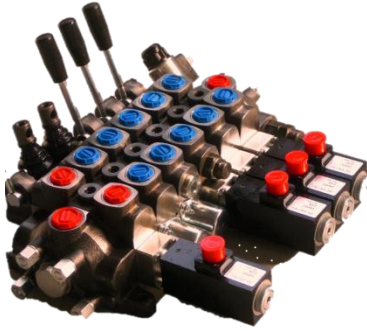


**MONOBLOCK & SECTIONAL
DIRECTIONAL CONTROL VALVES**
CATALOGUE

BEFORE AND DURING INSTALLATION

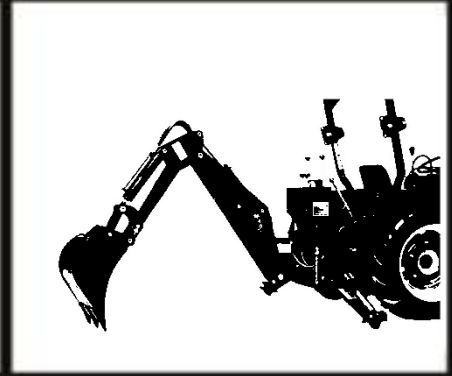
- Pay extreme attention to cleanness in all phases

Accordingly the cleanness of the following are essential:

- Tank
- Fittings, hoses and other connection parts (preferably squeeze compressed air before installation)
- Hydraulic oil (must be filtered before filling)

Please note that even though the cleanness of the oil is ensured initially by filtering, the system must be filtered frequently to avoid the possible damage caused by the excess contamination level of the fluid.

- Make sure that the valve was chosen suitably to the flow rate of the pump.
- The valve can be installed vertically or horizontally. It is however important to install it on a clean, flat and a vibration proof surface.
- Make sure that an authorized personnel carry-out the assembling.
- Always use standard fittings. When tightening, be sure that they press the ports properly. Never use fittings which do not ensure this. This may cause malfunctions in the valve body.



MONOBLOCK DIRECTIONAL CONTROL VALVES

KVM05

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

- Variety of spool types
- Single action

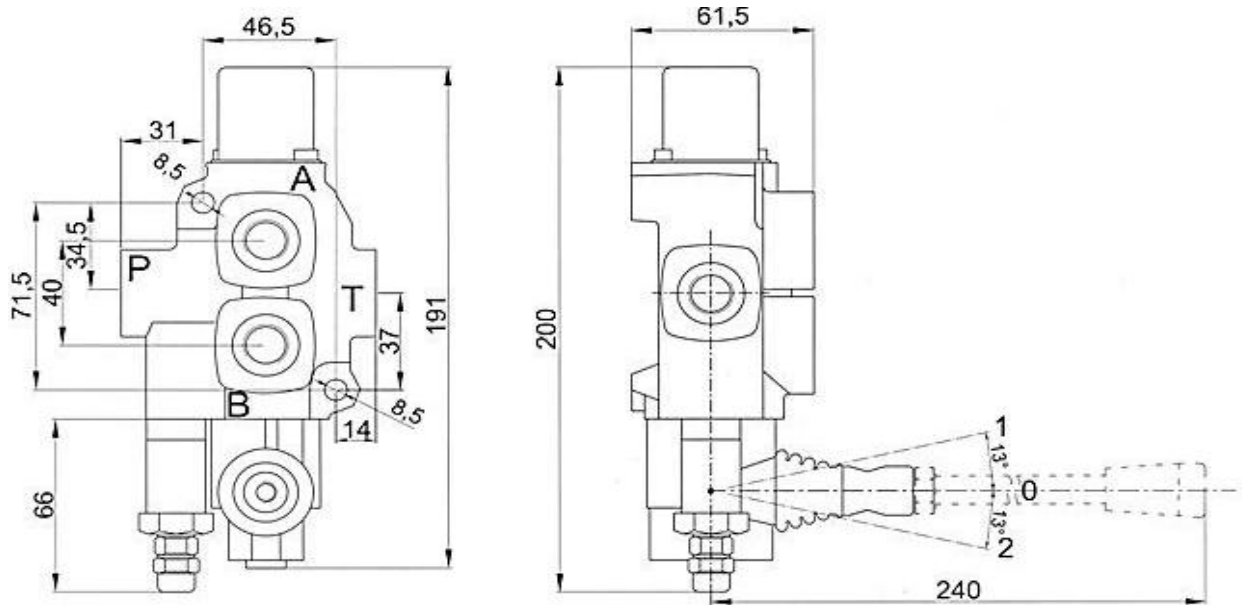
TECHNICAL SPECIFICATIONS

Number of spools	1
Nominal flow	35lt/min
Max. Operating pressure	320 Bar
Max. Back pressure	30 Bar
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min
Weight	2,40 kgs

WORKING CONDITIONS

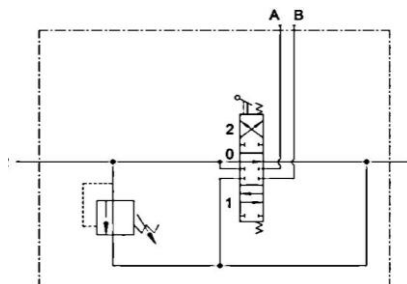
Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
Recommended fluid temperature range	-20 to +80
Environmental temperature range	-35 to +60
Max. Contamination level	Class 9 (NAS 1638) 19/16 (ISO 4406)

DIMENSIONAL DATA



HYDRAULIC CIRCUITS

STANDARD CIRCUIT



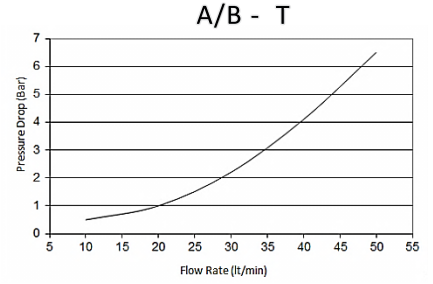
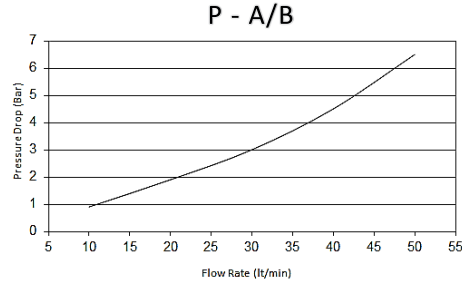
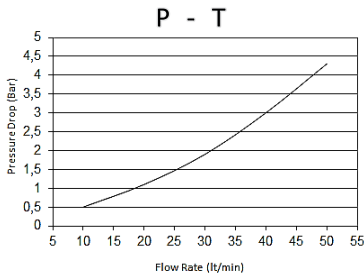
NO CODE

STANDARD THREADS

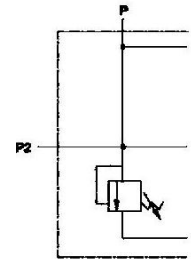
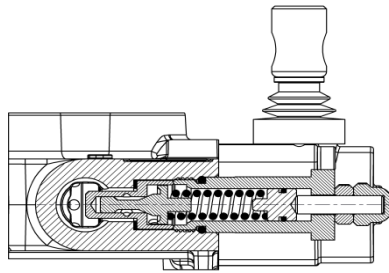
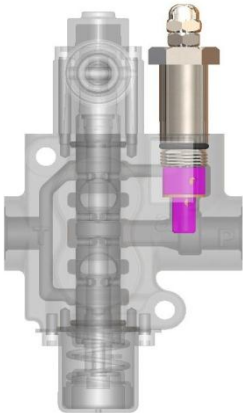
CODE	P	A/B	T
A	G 3/8	G3/8	G3/8

PERFORMANCE DATA

PRESSURE DROP

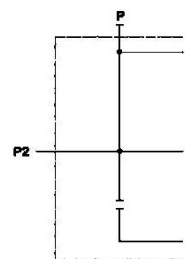
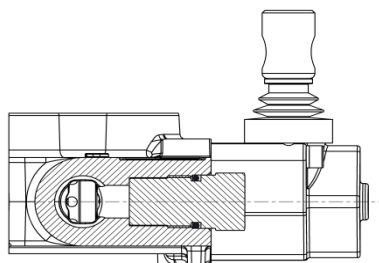
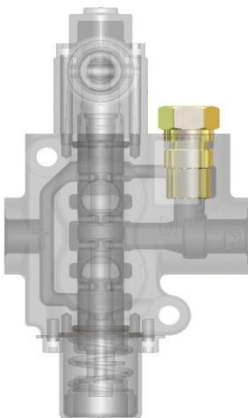


MAIN RELIEF VALVE

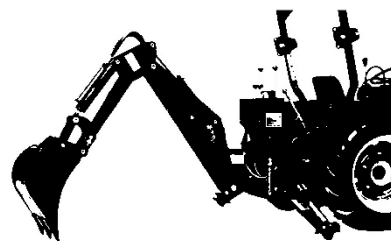


CODE : R

NO MAIN RELIEF VALVE



CODE : Y



MONOBLOCK DIRECTIONAL CONTROL VALVES

KVM10 SERIES

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

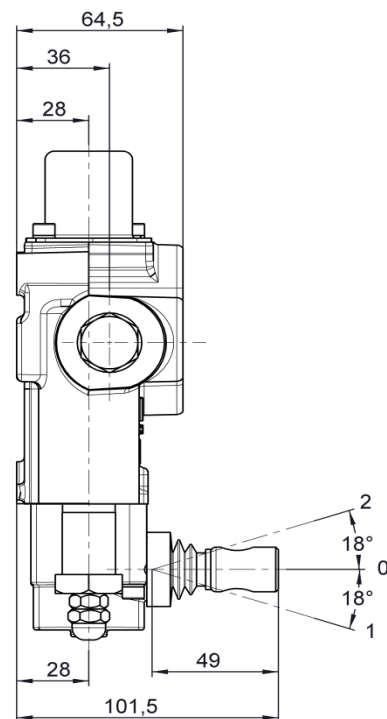
- Series circuit
- Variety of spool types
- Closed center
- Carry-over option
- Single action

TECHNICAL SPECIFICATIONS

Number of spools	1-7
Nominal flow	45lt/min
Max. Operating pressure	350 Bar
Max. Back pressure	30 Bar
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min

WORKING CONDITIONS

Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
Recommended fluid temperature range	-20 to +80
Environmental temperature range	-35 to +60
Max. Contamination level	Class 9 (NAS 1638) 19/16 (ISO 4406)

[illegible]

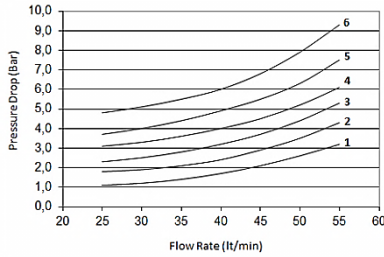
Type	L (mm)	K (mm)	W (kg)
<i>KV M 10/1</i>	73	129,5	3.60
<i>KV M 10/2</i>	113	169,5	5.50
<i>KV M 10/3</i>	153	209,5	7.40
<i>KV M 10/4</i>	193	249,5	9.45
<i>KV M 10/5</i>	233	289,5	11.25
<i>KV M 10/6</i>	273	329,5	13.20

<i>CODE</i>	<i>P</i>	<i>A/B</i>	<i>T</i>	<i>T1</i>
<i>A</i>	<i>G 3/8</i>	<i>G3/8</i>	<i>G3/8</i>	<i>G1/2</i>
<i>B</i>	<i>G1/2</i>	<i>G1/2</i>	<i>G1/2</i>	<i>G1/2</i>

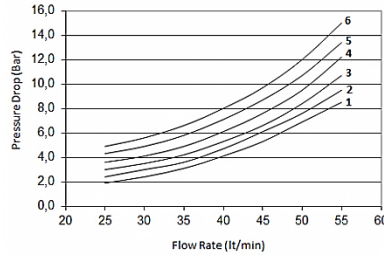
PERFORMANCE DATA

PRESSURE DROP

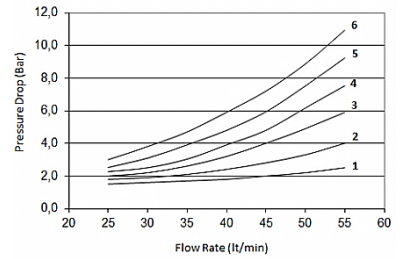
P - T



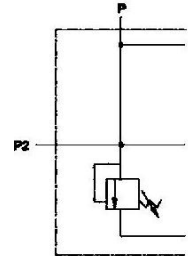
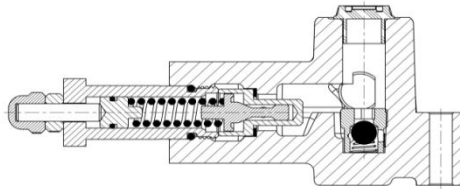
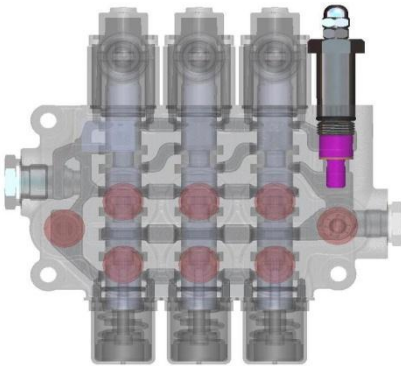
P - A/B



A/B - T

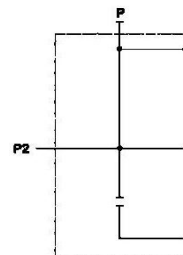
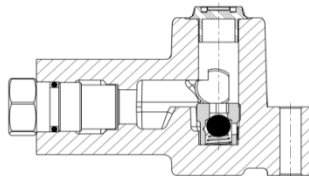
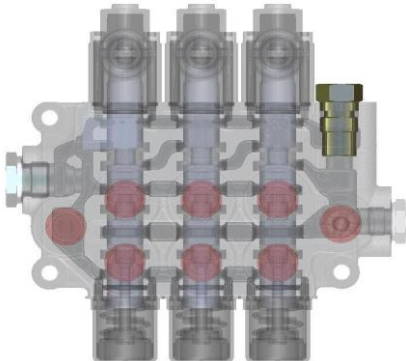


MAIN RELIEF VALVE



CODE : R

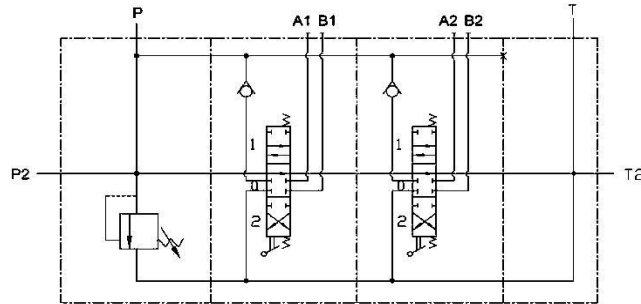
NO MAIN RELIEF VALVE



CODE : Y

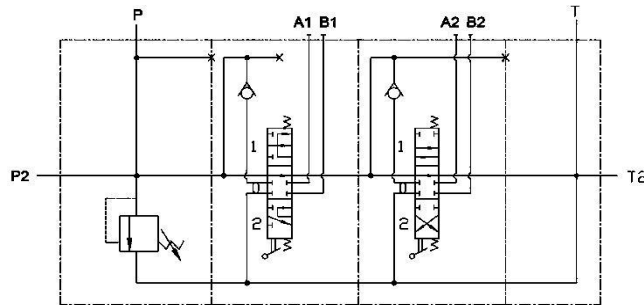
HYDRAULIC CIRCUITS

STANDARD CIRCUIT



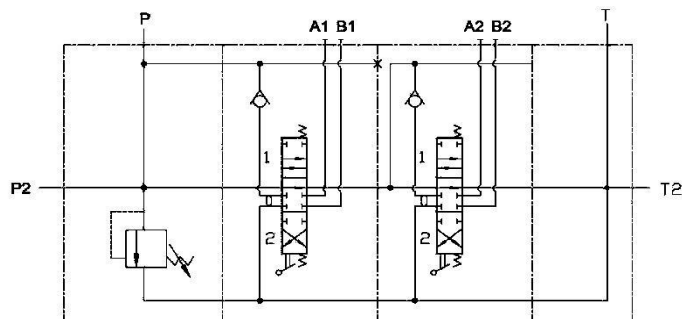
NO CODE

SERIES CIRCUIT



CODE : S

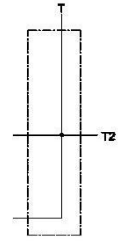
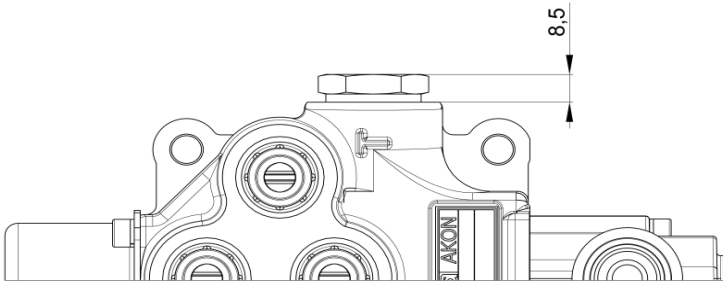
TANDEM CIRCUIT



CODE : T

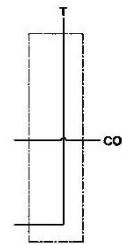
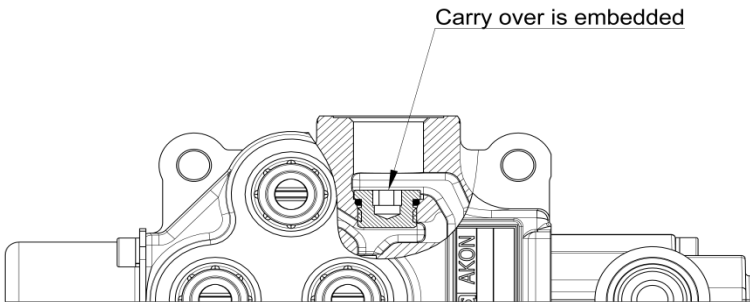
OUTLET OPTIONS

STANDARD



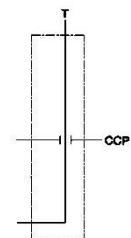
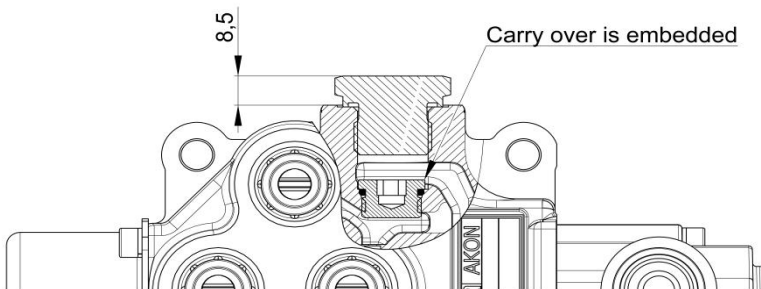
NO CODE

CARRY-OVER PLUG

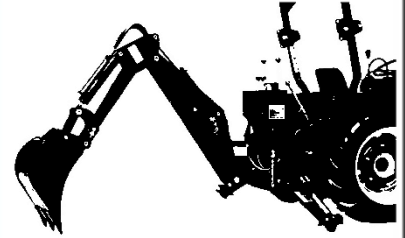


CODE : H

CLOSED CENTER PLUG



CODE : K



MONOBLOCK DIRECTIONAL CONTROL VALVES

KVM15 SERIES

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

- Series circuit
- Variety of spool types
- Closed center
- Carry-over option
- Single action

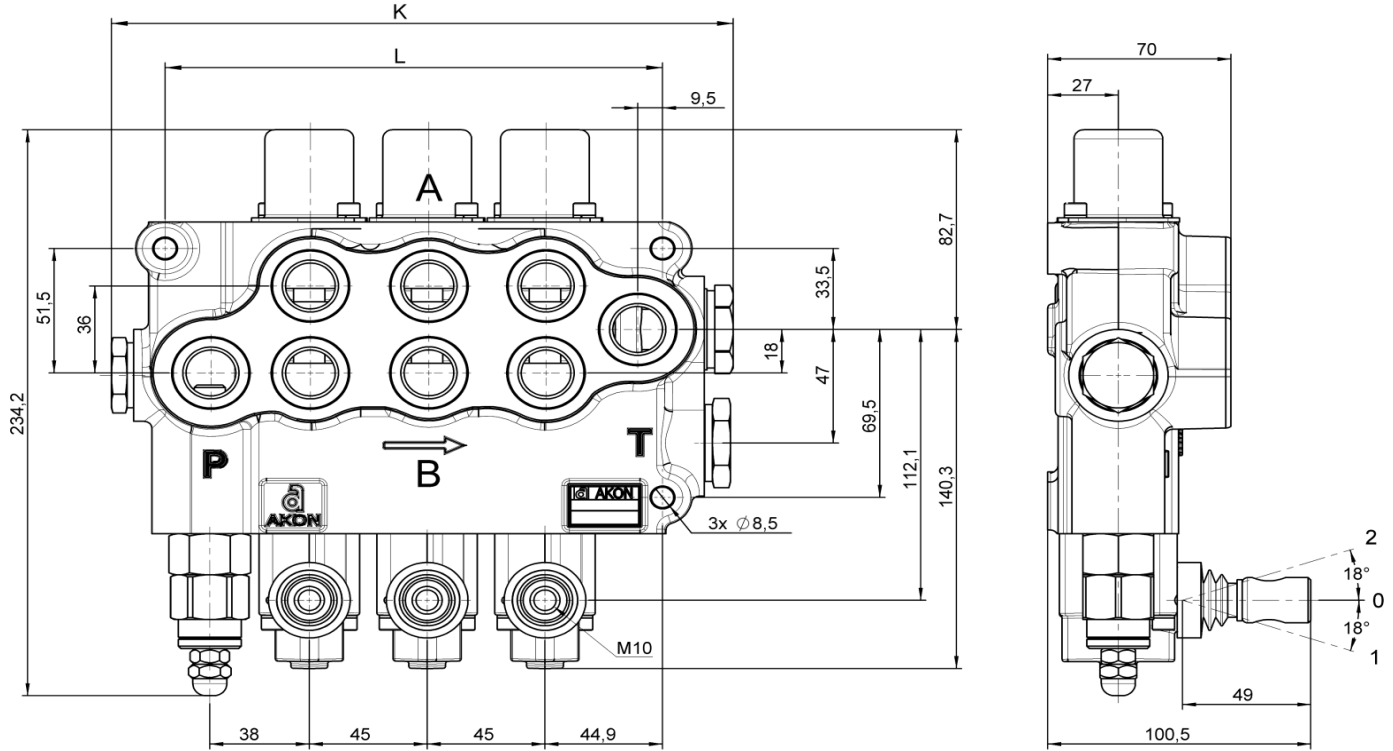
TECHNICAL SPECIFICATIONS

Number of spools	1-7
Nominal flow	70lt/min
Max. Operating pressure	350 Bar
Max. Back pressure	30 Bar
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min

WORKING CONDITIONS

Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
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 M 15/1	100	147,5	5,65
KV M 15/2	145	192,5	8,25
KV M 15/3	190	237,5	10,85
KV M 15/4	235	282,5	13,45
KV M 15/5	280	327,5	16,05
KV M 15/6	325	372,5	18,65
KVM 15/7	370	417,5	21,25

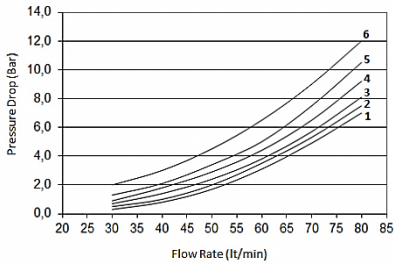
STANDARD THREADS

CODE	P	A/B	T	T1, T2
B	B	G1/2	G1/2	G3/4

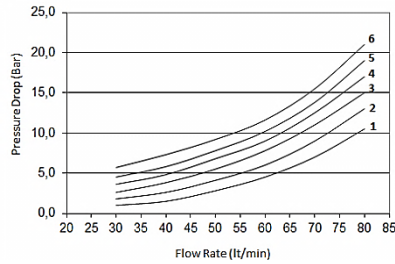
PERFORMANCE DATA

PRESSURE DROP

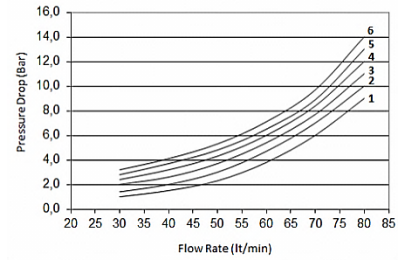
P - T



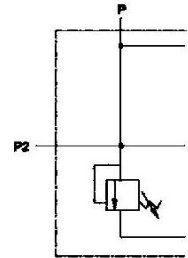
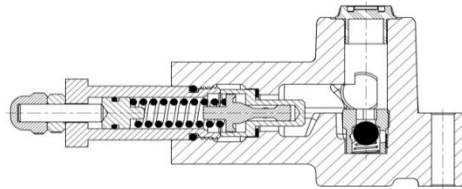
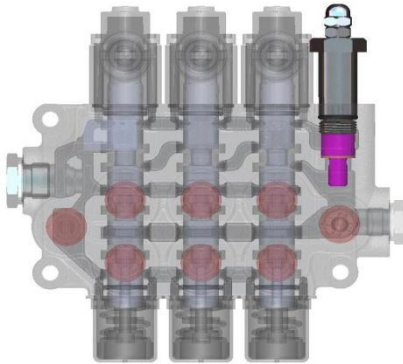
P - A/B



A/B - T

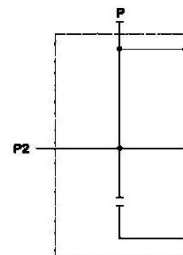
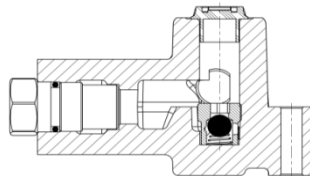
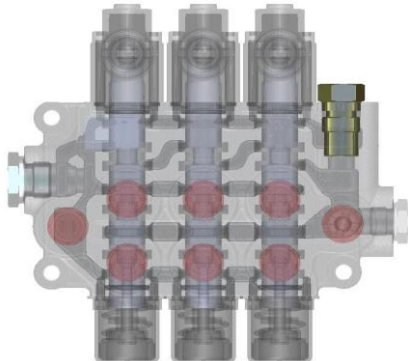


MAIN RELIEF VALVE



CODE : R

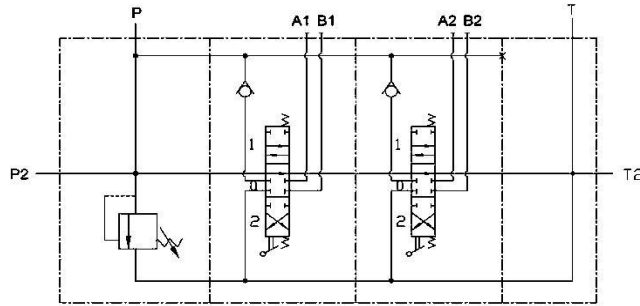
NO MAIN RELIEF VALVE



CODE : Y

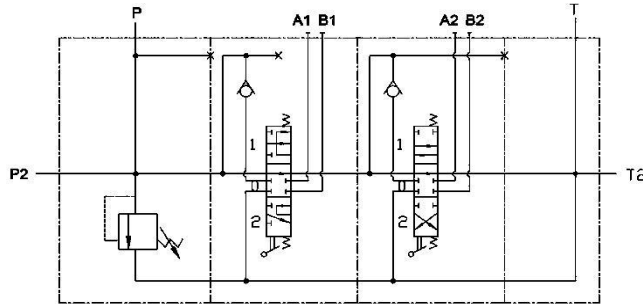
HYDRAULIC CIRCUITS

STANDARD CIRCUIT



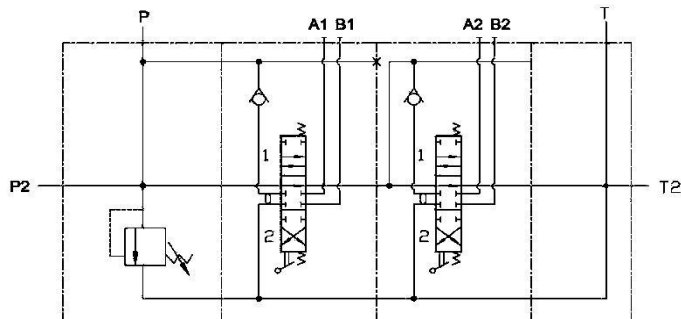
NO CODE

SERIES CIRCUIT



CODE : S

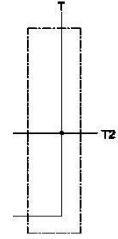
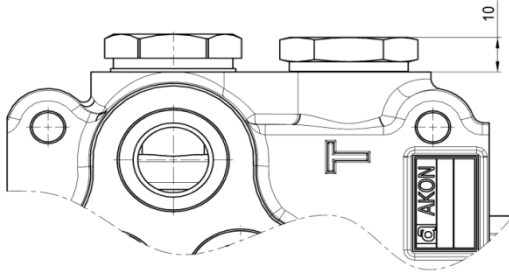
TANDEM CIRCUIT



CODE : T

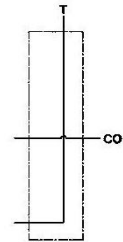
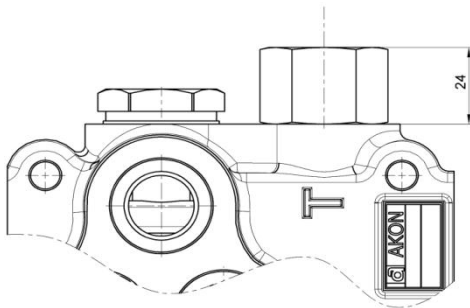
OUTLET OPTIONS

STANDARD



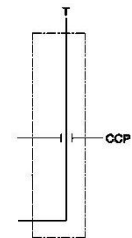
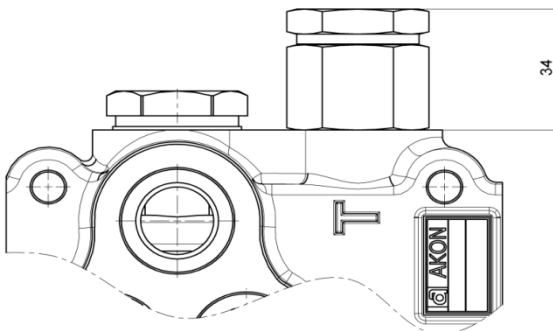
NO CODE

CARRY-OVER PLUG

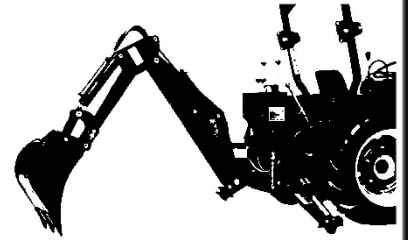
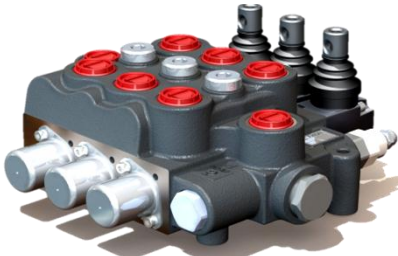


CODE : H

CLOSED CENTER PLUG



CODE : K



MONOBLOCK DIRECTIONAL CONTROL VALVES

KVM16 SERIES

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

- Series circuit
- Variety of spool types
- Closed center
- Carry-over option
- Single action

TECHNICAL SPECIFICATIONS

Number of spools	2 and 3 sections
Nominal flow	100lt/min
Max. Operating pressure	350 Bar
Max. Back pressure	30 Bar
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min

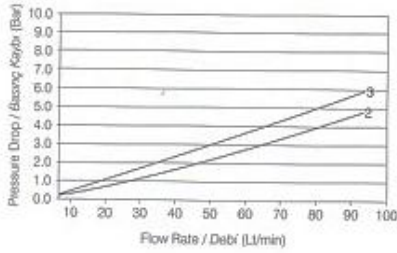
WORKING CONDITIONS

Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
Recommended fluid temperature range	-20 to +80
Environmental temperature range	-35 to +60
Max. Contamination level	Class 9 (NAS 1638) 19/16 (ISO 4406)

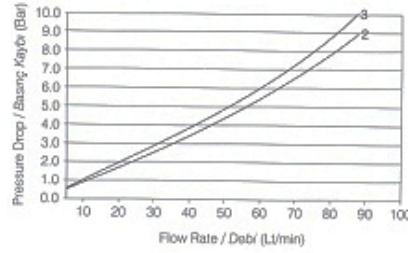
PERFORMANCE DATA

PRESSURE DROP

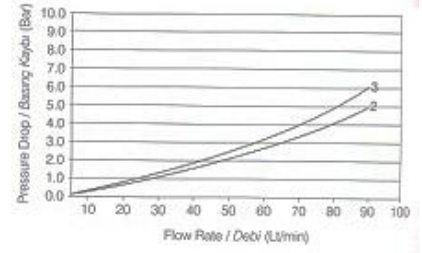
P - T



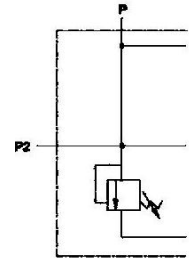
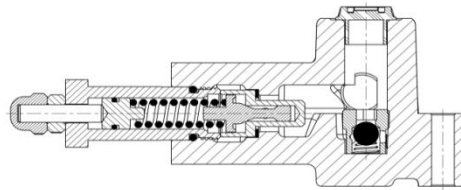
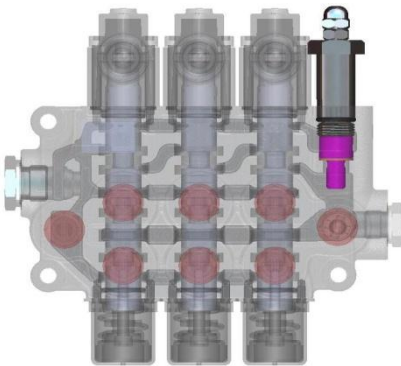
P - A/B



A/B - T

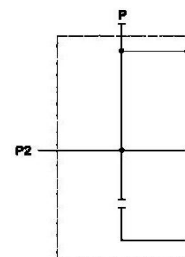
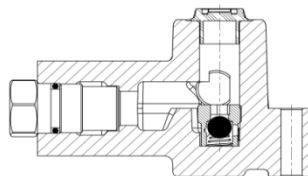
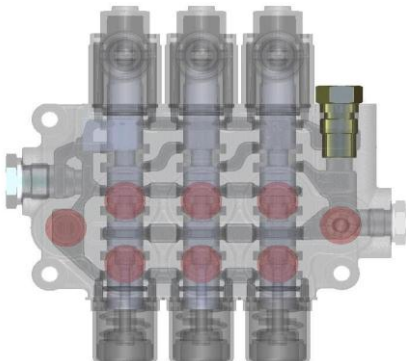


MAIN RELIEF VALVE



CODE : R

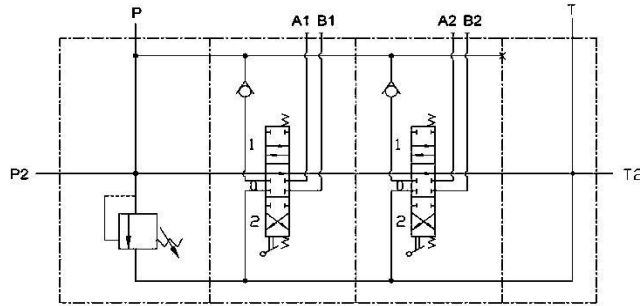
NO MAIN RELIEF VALVE



CODE : Y

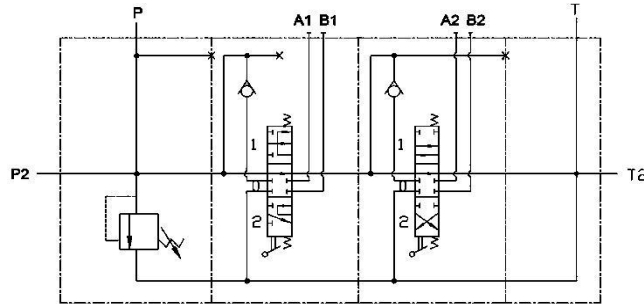
HYDRAULIC CIRCUITS

STANDARD CIRCUIT



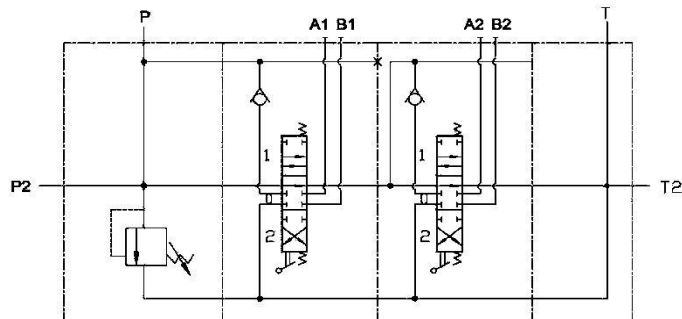
NO CODE

SERIES CIRCUIT



CODE : S

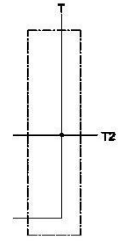
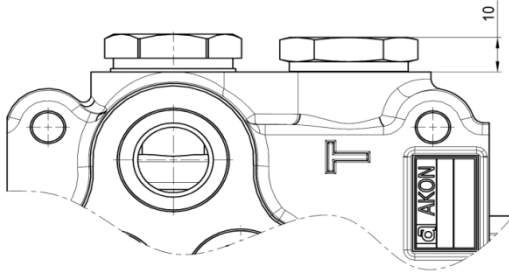
TANDEM CIRCUIT



CODE : T

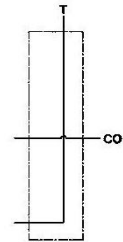
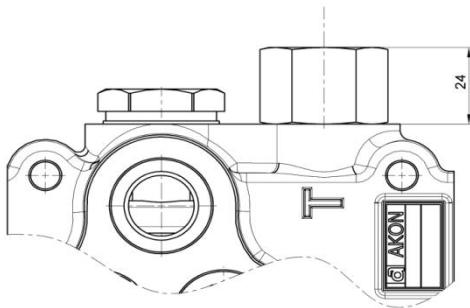
OUTLET OPTIONS

STANDARD



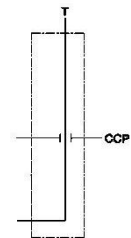
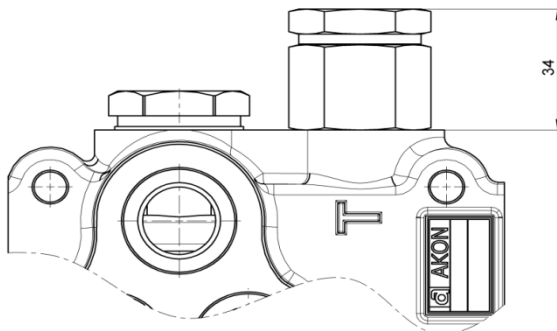
NO CODE

CARRY-OVER PLUG



CODE : H

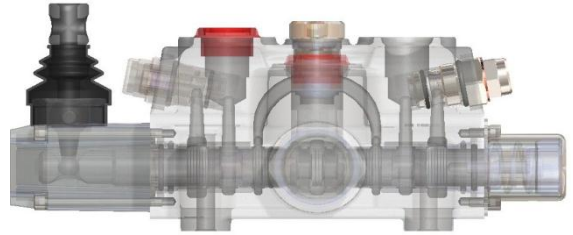
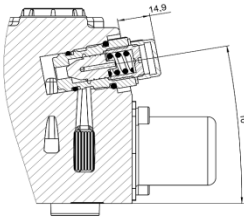
CLOSED CENTER PLUG



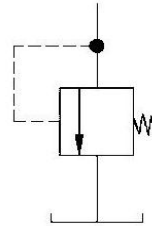
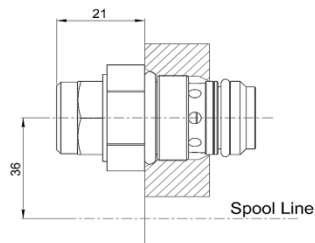
CODE : K

PORT RELIEF VALVES

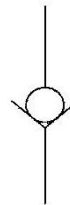
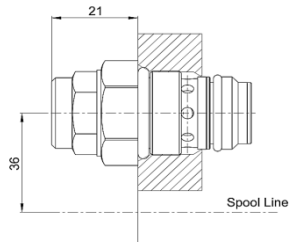
STANDARD



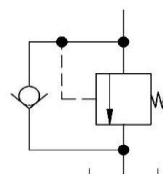
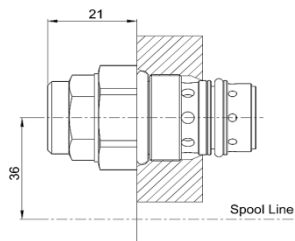
PORT RELIEF VALVES

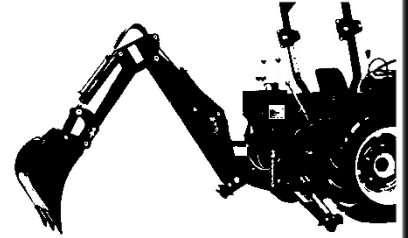
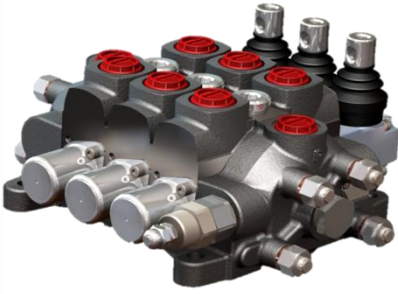


ANTICAVITATION VALVES



PORT RELIEF & ANTICAVITATION VALVES





SECTIONAL DIRECTIONAL CONTROL VALVES

KV15 SERIES

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

- Series circuit
- Variety of spool types
- Closed center
- Carry-over option
- Single action
- Service valves

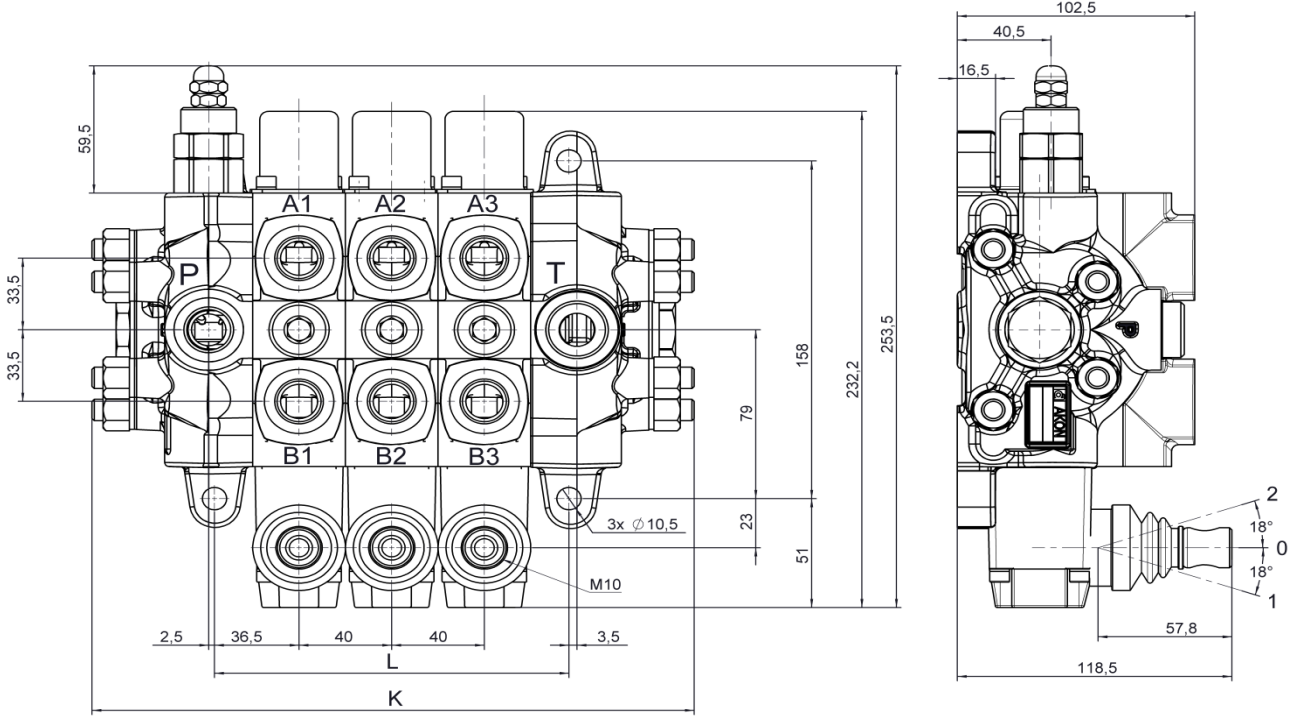
TECHNICAL SPECIFICATIONS

Number of spools	1 - 10 (Please ask for special orders more than 10 spools)
Nominal flow	70lt/min
Max. Operating pressure	350 Bar
Max. Back pressure	30 Bar
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min

WORKING CONDITIONS

Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
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

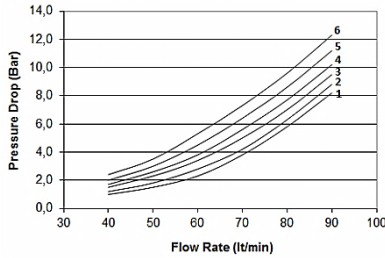


Type	L (mm)	K (mm)	W (kg)
KV 15/1	73	180	9,25
KV 15/2	113	220	12,30
KV 15/3	153	260	15,35
KV 15/4	193	300	18,40
KV 15/5	233	340	21,45
KV 15/6	273	380	24,50
KV 15/7	313	420	27,55
KV 15/8	353	460	30,60
KV 15/9	393	500	33,65

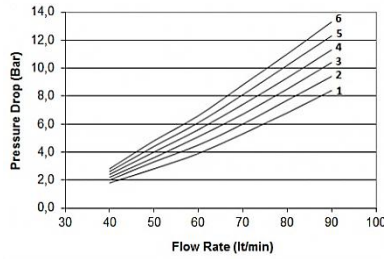
PERFORMANCE DATA

PRESSURE DROP

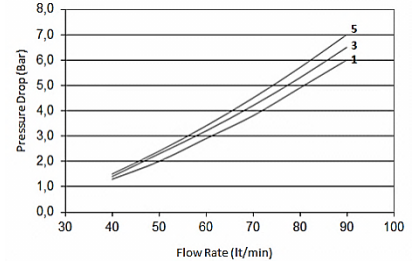
P - T



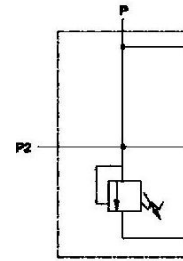
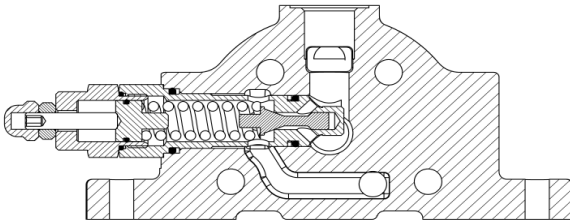
P - A/B



A/B - T

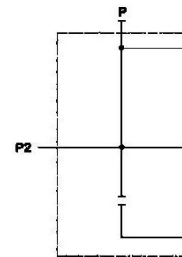
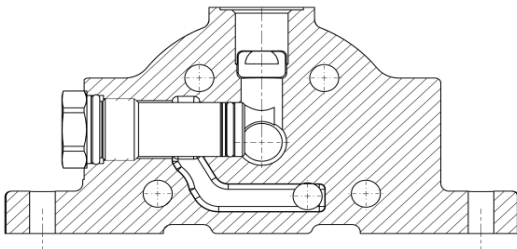


INLET COVER



CODE : R

NO MAIN RELIEF VALVE

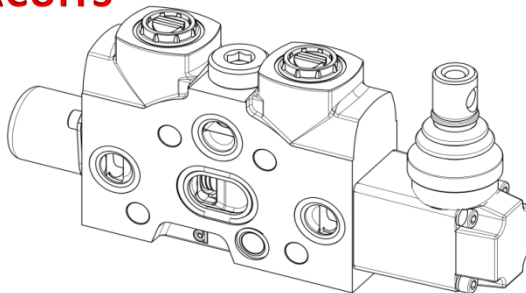


CODE : Y

STANDARD THREADS

CODE	P
B	G1/2
C	G3/4

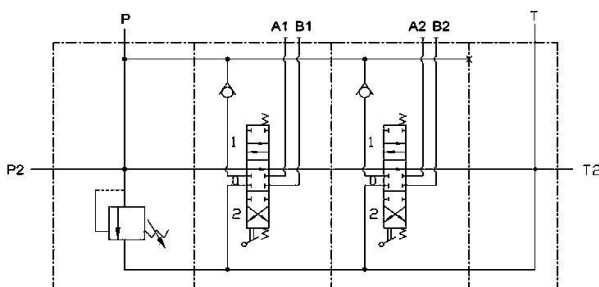
HYDRAULIC CIRCUITS



STANDARD THREADS

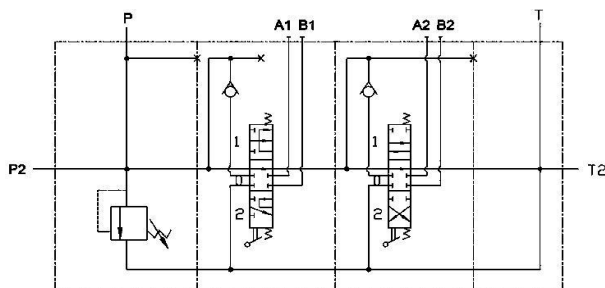
CODE	A/B
B	G1/2
C	G3/4

STANDARD CIRCUIT



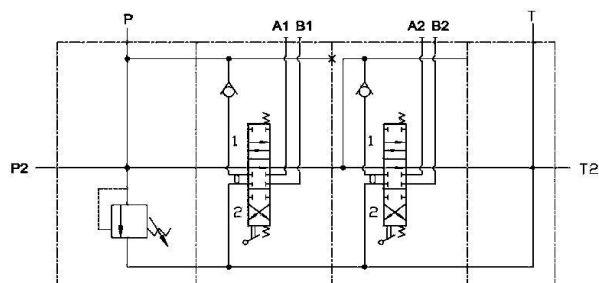
NO CODE

SERIES CIRCUIT



CODE : S

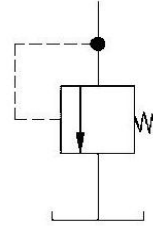
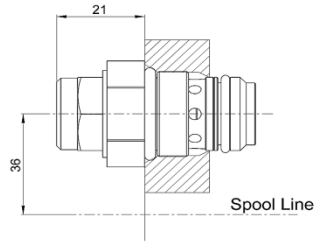
TANDEM CIRCUIT



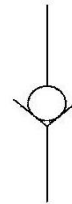
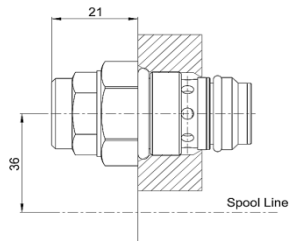
CODE : T

SERVICE VALVES

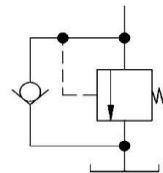
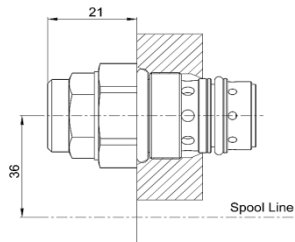
PORT RELIEF VALVES

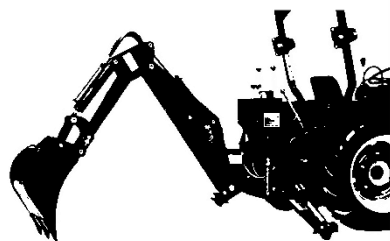
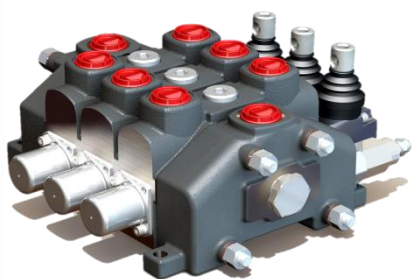


ANTICAVITATION VALVES



PORT RELIEF & ANTICAVITATION VALVES





SECTIONAL DIRECTIONAL CONTROL VALVES

KV18 SERIES

KV18 SERIES

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

- Series circuit
- Variety of spool types
- Closed center
- Carry-over option
- Single action
- Service valves

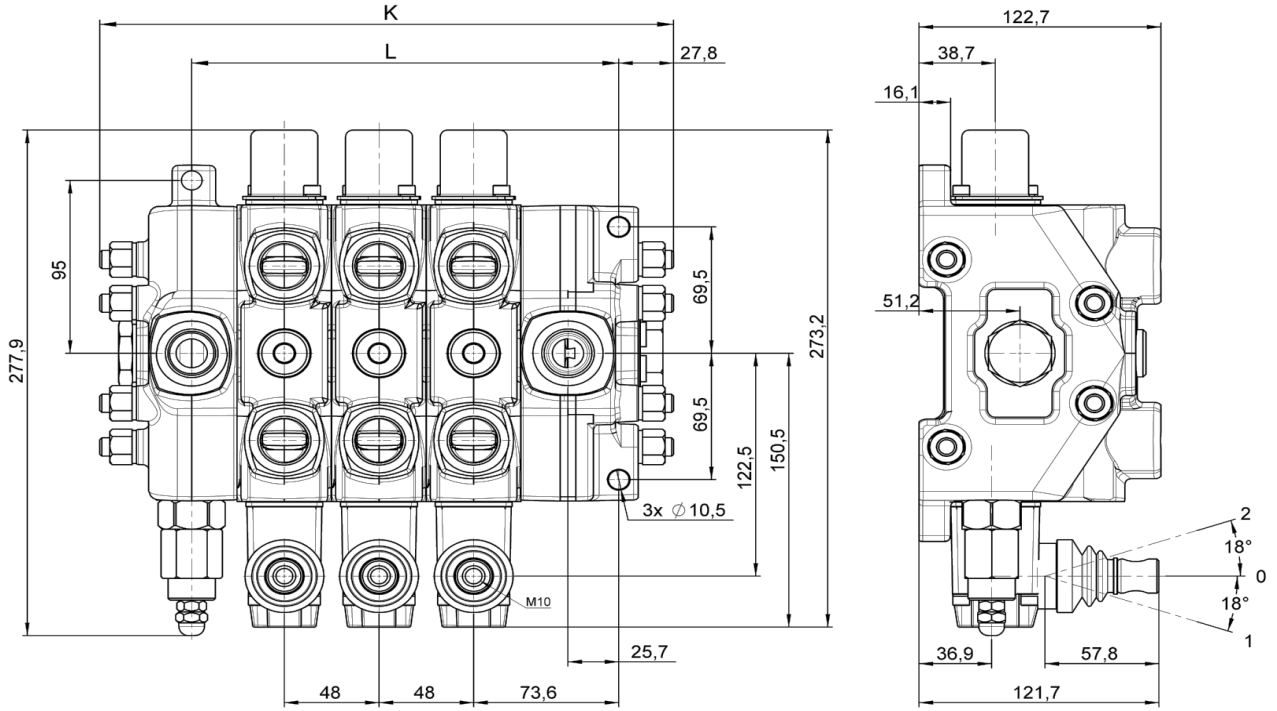
TECHNICAL SPECIFICATIONS

Number of spools	1 - 10 (Please ask for special orders more than 10 spools)
Nominal flow	100lt/min
Max. Operating pressure	320 Bar
Max. Back pressure	30 Bar
Tie rod tightening torque	30 Nm
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min

WORKING CONDITIONS

Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
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

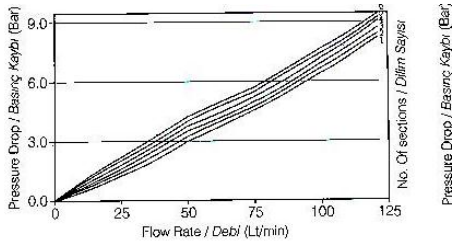


Type	L (mm)	K (mm)	W (kg)
KV 18/1	121	195	14,80
KV 18/2	169	243	20,00
KV 18/3	217	291	25,20
KV 18/4	265	339	30,40
KV 18/5	313	387	35,60
KV 18/6	361	435	40,80
KV 18/7	409	483	46,00
KV 18/8	457	531	51,20
KV 18/9	505	579	56,40

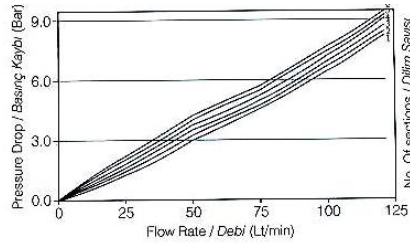
PERFORMANCE DATA

PRESSURE DROP

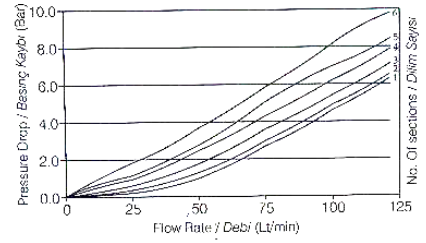
P - T



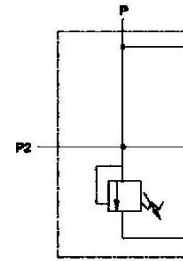
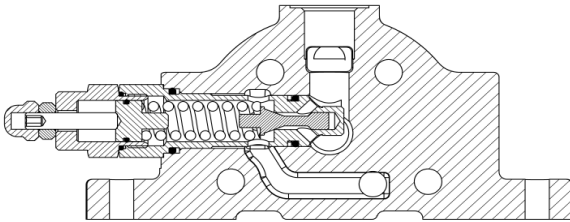
P - A/B



A/B - T

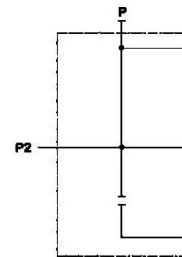
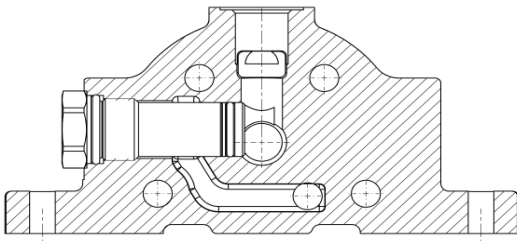


INLET COVER



CODE : R

NO MAIN RELIEF VALVE

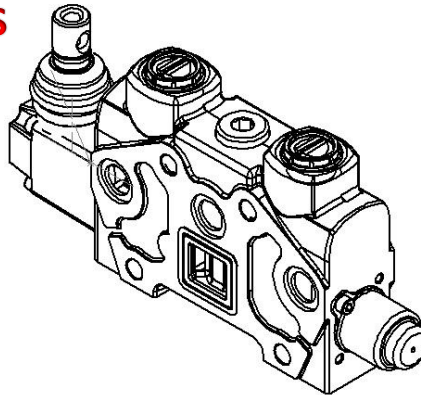


CODE : Y

STANDARD THREADS

CODE	P
C	G3/4

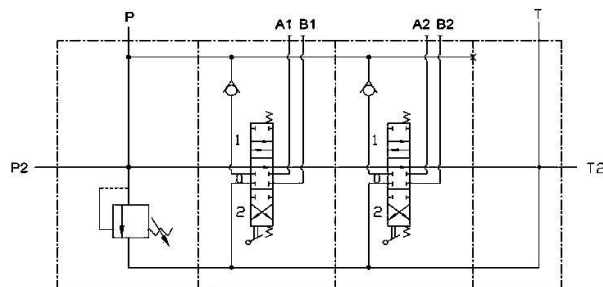
HYDRAULIC CIRCUITS



STANDARD THREADS

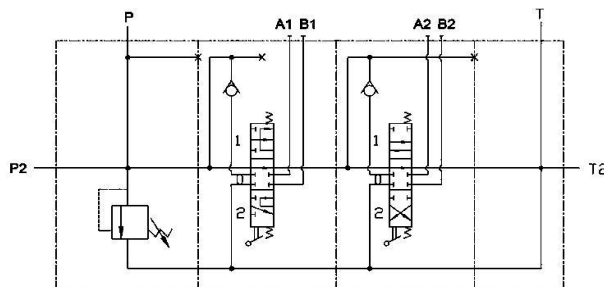
CODE	A/B
C	G3/4

STANDARD CIRCUIT



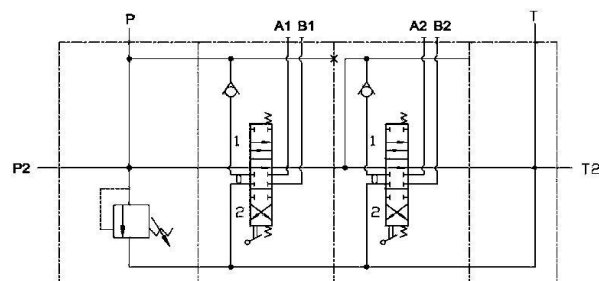
NO CODE

SERIES CIRCUIT



CODE : S

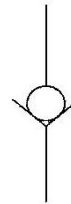
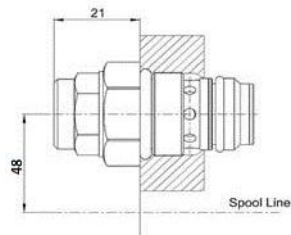
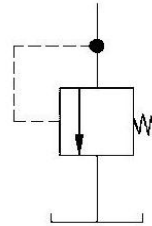
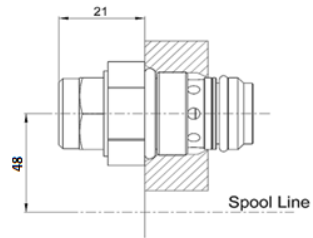
TANDEM CIRCUIT



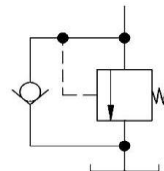
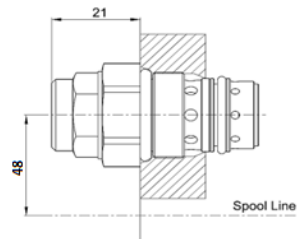
CODE : T

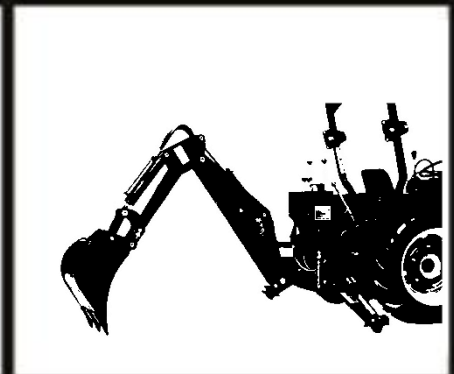
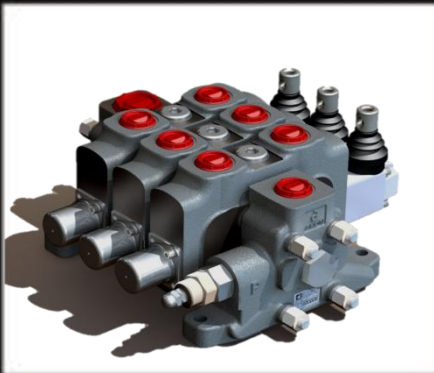
SERVICE VALVES

PORT RELIEF VALVES



PORT RELIEF & ANTICAVITATION VALVES





SECTIONAL DIRECTIONAL CONTROL VALVES

KV20 SERIES

KV20 SERIES

GENERAL FEATURES

Standard Material Specifications

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

Standard Features

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

Optional Features

- Series circuit
- Variety of spool types
- Closed center
- Carry-over option
- Single action
- Service valves

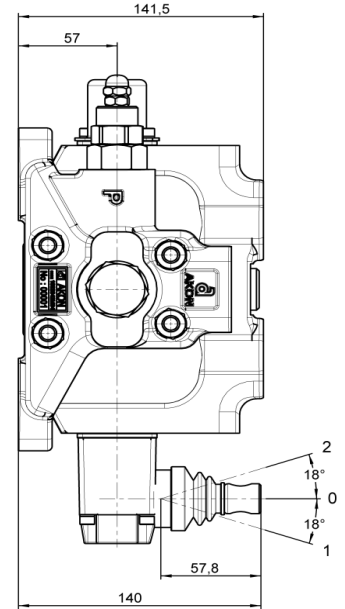
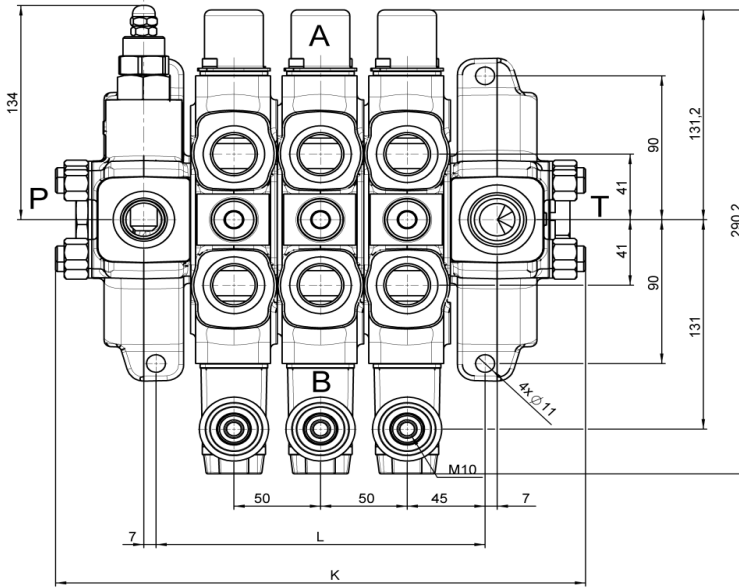
TECHNICAL SPECIFICATIONS

Number of spools	1 - 10 (Please ask for special orders more than 10 spools)
Nominal flow	150lt/min
Max. Operating pressure	320 Bar
Max. Back pressure	30 Bar
Tie rod tightening torque	30 Nm
Internal leakage (at 100 Bar; 32 cSt, 40°C)	4 to 9 cc/min

WORKING CONDITIONS

Recommended oil viscosity range	10 cSt to 75 cSt
Recommended oil filtering	$\beta_{10} \geq 75$
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

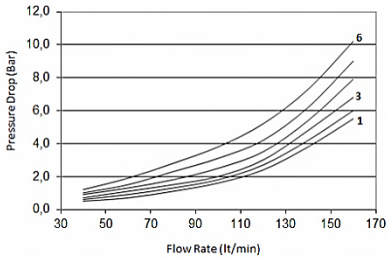


Type	L (mm)	K (mm)	W (kg)
KV 20/1	114	206	14,90
KV 20/2	164	256	21,80
KV 20/3	214	306	28,30
KV 20/4	264	356	34,80
KV 20/5	314	406	41,30
KV 20/6	364	456	47,80
KV 20/7	414	406	54,30
KV 20/8	464	556	60,80
KV 20/9	514	606	67,30

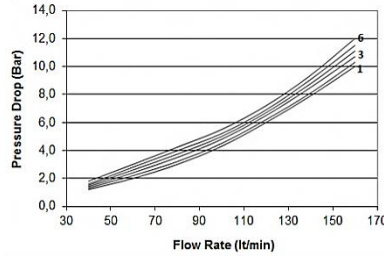
PERFORMANCE DATA

PRESSURE DROP

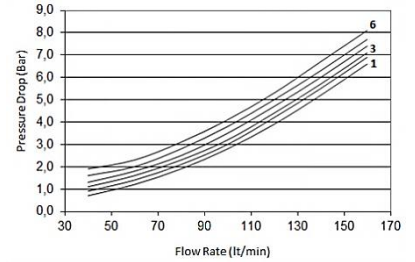
P - T



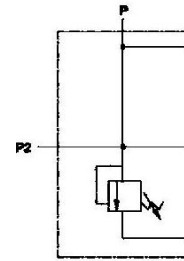
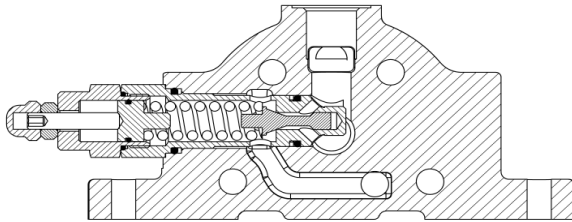
P - A/B



A/B - T

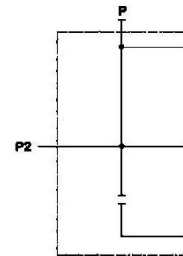
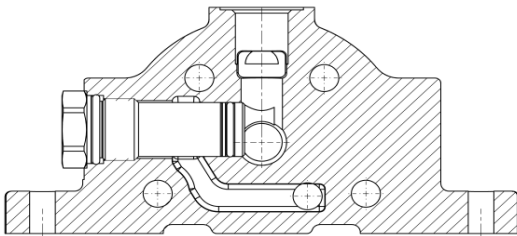


INLET COVER



CODE : R

NO MAIN RELIEF VALVE

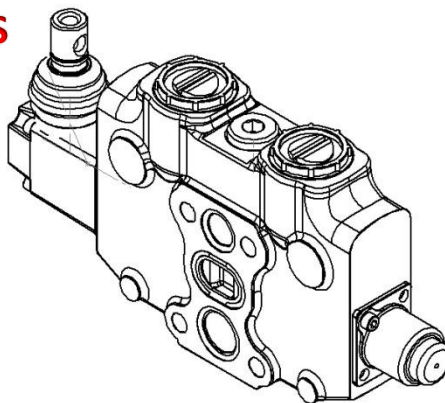


CODE : Y

STANDARD THREADS

CODE	P
C	G3/4
D	G1

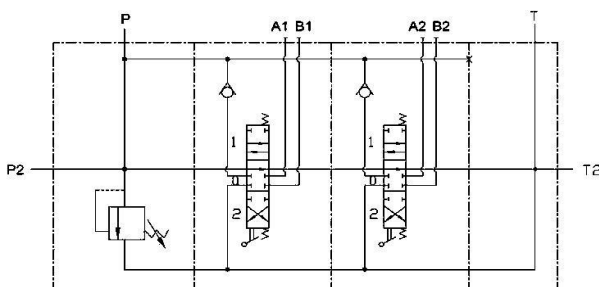
HYDRAULIC CIRCUITS



STANDARD THREADS

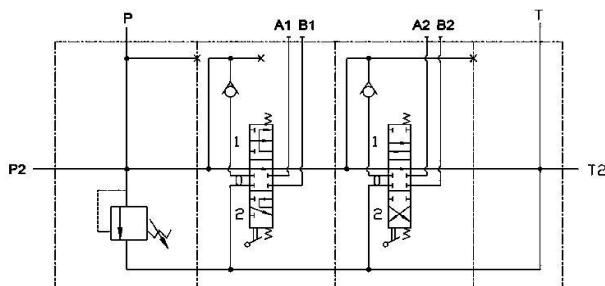
CODE	A/B
C	G3/4
D	G1

STANDARD CIRCUIT



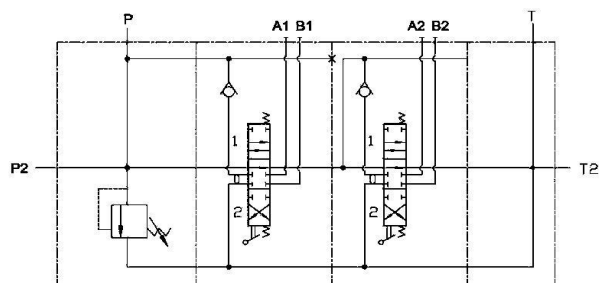
NO CODE

SERIES CIRCUIT



CODE : S

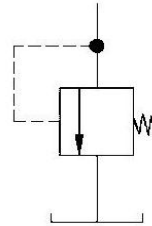
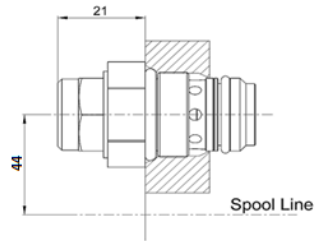
TANDEM CIRCUIT



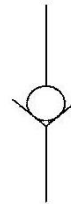
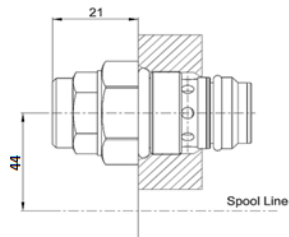
CODE : T

SERVICE VALVES

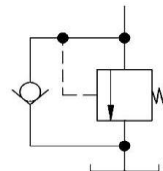
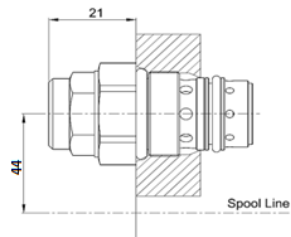
PORT RELIEF VALVES



ANTICAVITATION VALVES

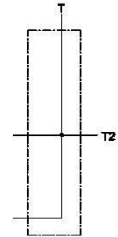
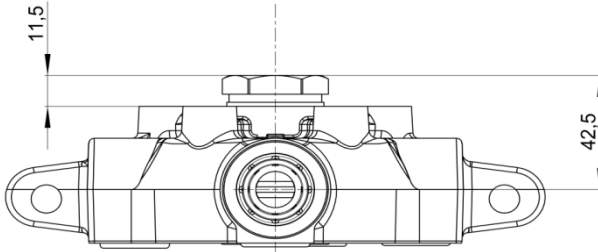


PORT RELIEF & ANTICAVITATION VALVES



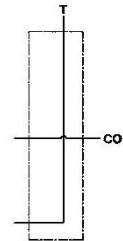
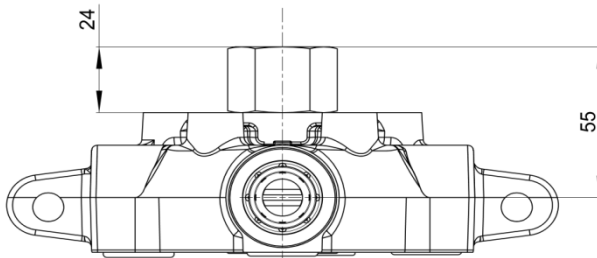
OUTLET OPTIONS

STANDARD



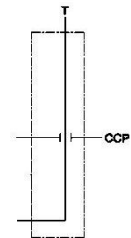
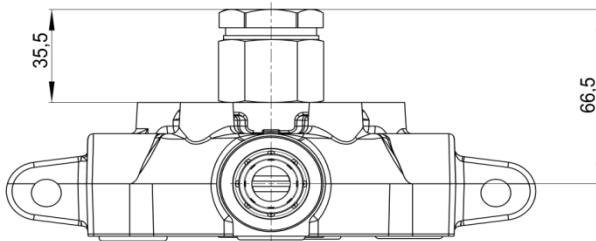
NO CODE

CARRY-OVER PLUG



CODE : H

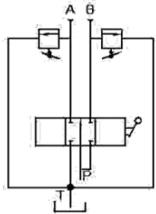
CLOSED CENTER PLUG



CODE : K

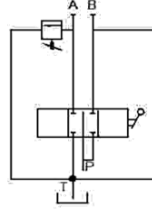
STANDARD THREADS

CODE	T
C	G1



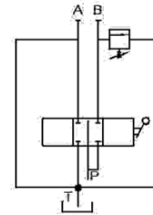
CODE: V1

Antishock valves in ports A and B



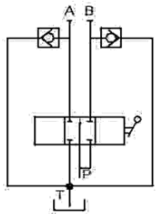
CODE: V2

Antishock valve in port A



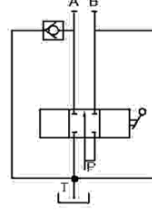
CODE: V3

Antishock valve in port B



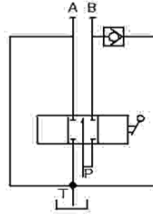
CODE: V4

Anticavitation valves in ports A and B



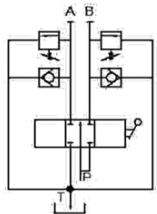
CODE: V5

Anticavitation valve in port A



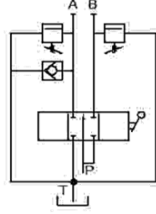
CODE: V6

Anticavitation valve in port B



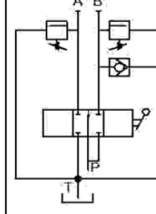
CODE: V7

Antishock & Anticavitation valves in ports A and B



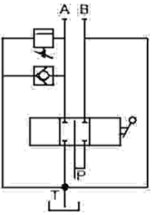
CODE: V8

Antishock & Anticavitation valve in port A and Antishock valve in port B



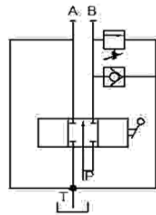
CODE: V9

Antishock & Anticavitation valve in port B and Antishock valve in port A



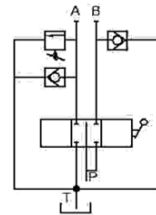
CODE: V10

Antishock & Anticavitation valve in port A



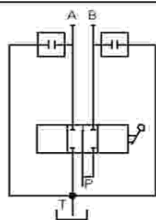
CODE: V11

Antishock & Anticavitation valve in port B



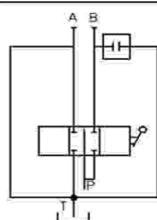
CODE: V12

Antishock & Anticavitation valve in port A and Anticavitation valve in port B



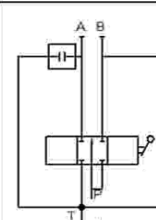
CODE: V13

Cavity-Plug in
ports A and B



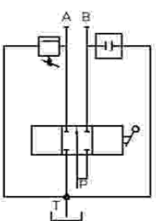
CODE: V14

Cavity-Plug in
port B



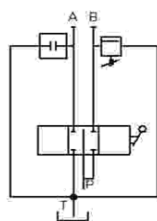
CODE: V15

Cavity-Plug in
port A



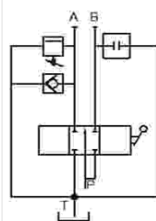
CODE: V17

Antishock valve in
port A
and Cavity-plug in
port B



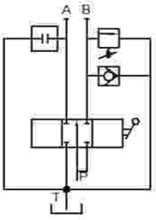
CODE: V18

Cavity-plug in port
A and Antishock
valve in port B



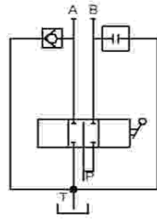
CODE: V19

Antishock &
Anticavitation valve
in port A and
Cavity-plug in port B



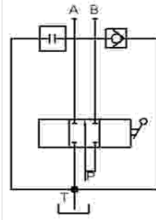
CODE: V20

Cavity-plug in port
A and Antishock &
Anticavitation
valve in port B



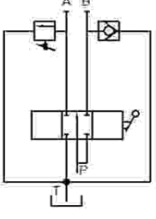
CODE: V21

Anticavitation
valve in port A
and Cavity-plug in
port B



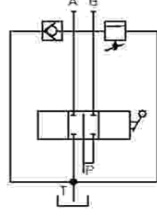
CODE: V22

Cavity-plug in port
A and
Anticavitation
valve in port B



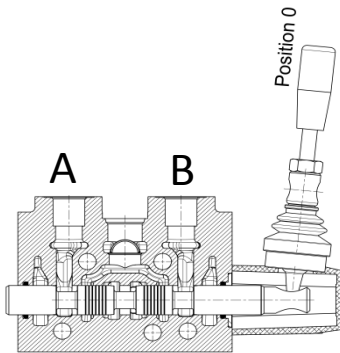
CODE: V27

Antishock valve in
port A and
Anticavitation
valve in port B

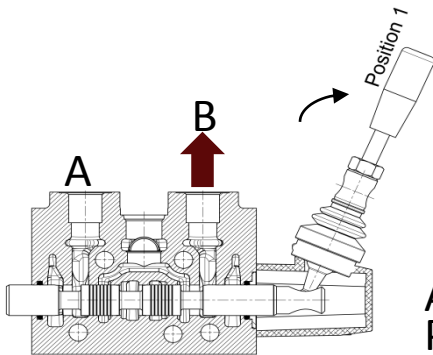


CODE: V28

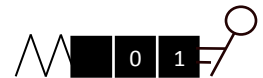
Anticavitation
valve in port A and
Antishock valve in
port B



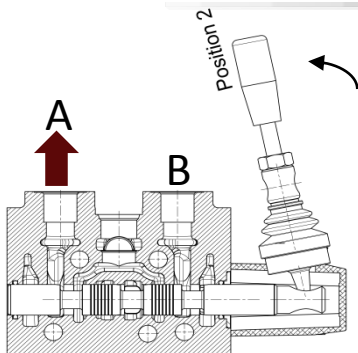
Spool - neutral position;
POSITION 0



A → T
P → B



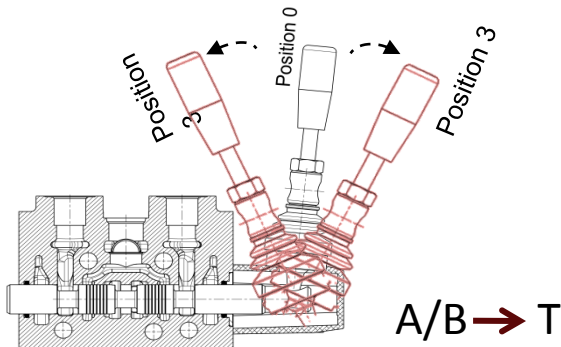
Spool - out position;
POSITION 1



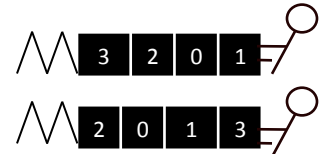
B → T
P → A



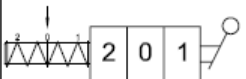
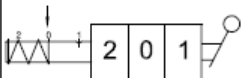
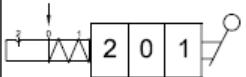
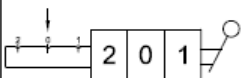
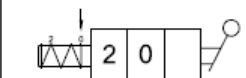
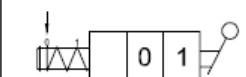
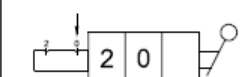
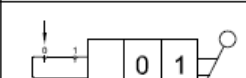
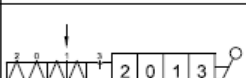
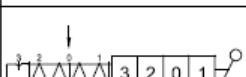
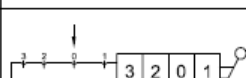
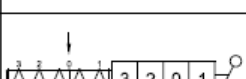
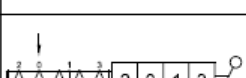
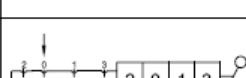
Spool - in position;
POSITION 2

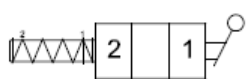
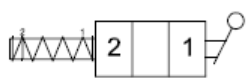
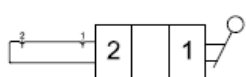
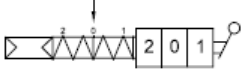
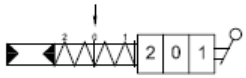
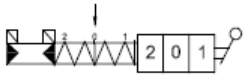
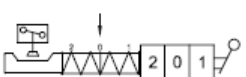
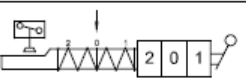
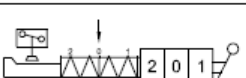
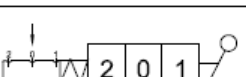
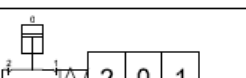
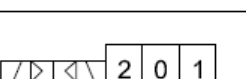
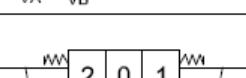
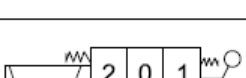


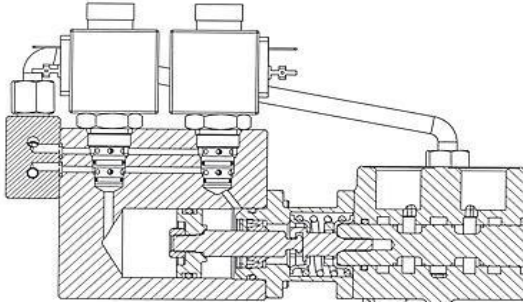
A/B → T



4 positions and 4th position can be
spool - in or spool -out position
optionally;
POSITION 3

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 positions
SC8		2 positions, detent in both positions
SC9		4 positions spring centered, detent in 3rd 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
SC30		3 positions, Elektro-pneumatic control
SC32		3 positions, direct solenoid control (push type)
SC14		3 positions, direct solenoid control (push pull type)



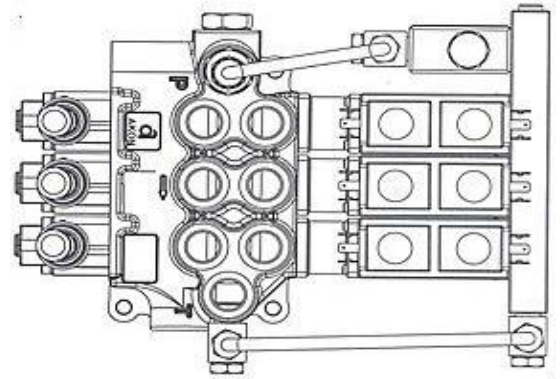
ON-OFF ELECTRO-HYDRAULIC CONTROL

Solenoid valve features

Coil power: 18 W
Voltage: 12V or 24V DC
Max. Pressure: 50 Bar
Max. Flow: 5 lt/min

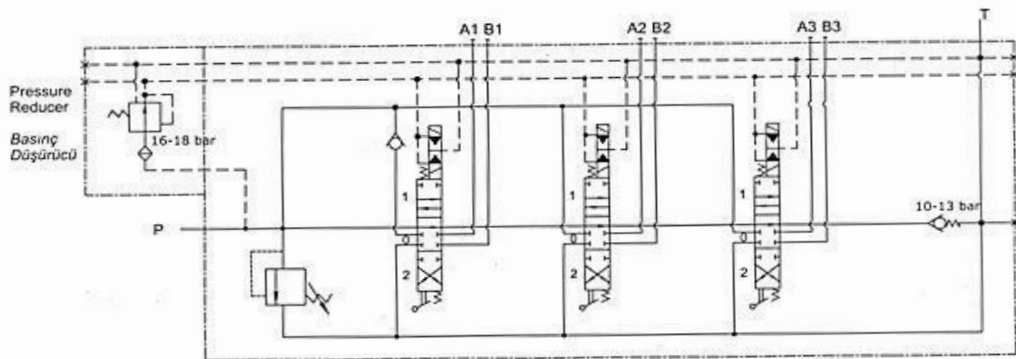
Solenoid valf özellikleri

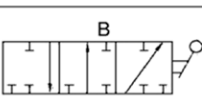
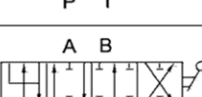
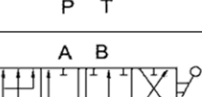
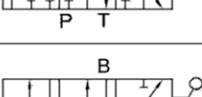
Bobin gücü: 18 W
Voltaj: 12V veya 24V DC
Max. Basınç: 50 Bar
Max. Debi: 5 lt/dk

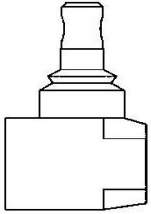


EXAMPLE CIRCUIT DIAGRAM OF A THREE SPOOL MONOBLOCK VALVE WITH ELECTRO-HYDRAULIC CONTROL

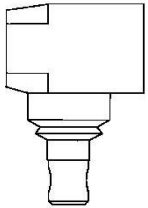
ÜÇ DİLİMLİ MONOBLOK VALFİN ÖRNEK DEVRE ŞEMASI



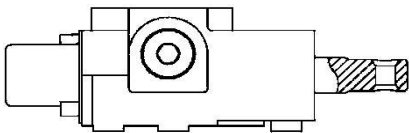
ST1		3 position Double acting spool
ST2		3 position Single acting on A side
ST3		3 position Single acting on B side
ST4		3 position Closed center spool
ST11		3 position Double acting spool A and B to tank
ST9		4 position Double acting with float on 4th position
ST10		4 position Double acting, regenerative 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



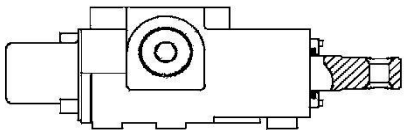
NO CODE
Standard Lever



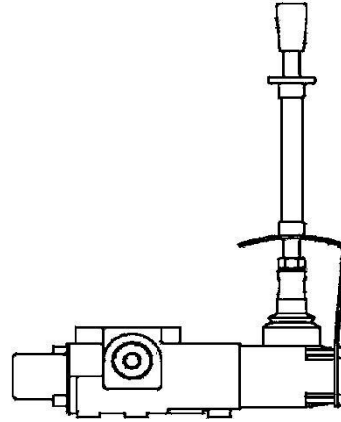
CODE : K1
Reverse Lever



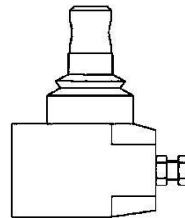
CODE : K2
No Lever



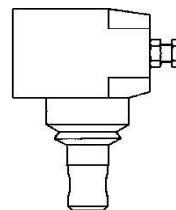
CODE : K3
Without Lever with
dustproof plate



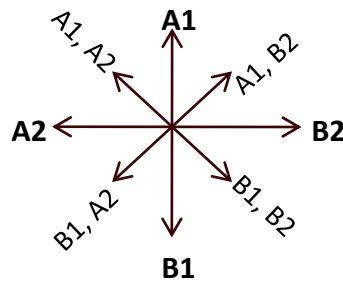
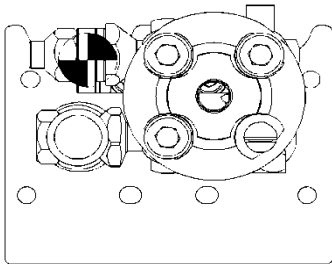
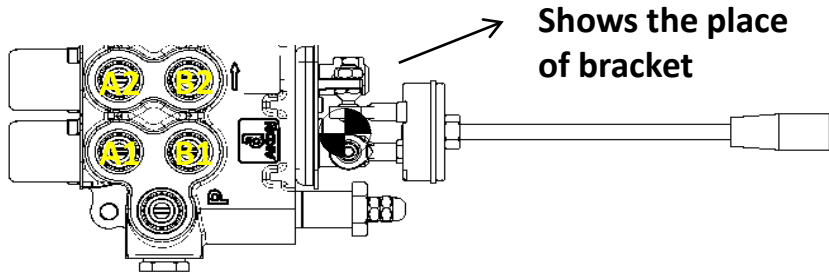
CODE : K4
Safety Lever



CODE : K5
With Spool Limiter



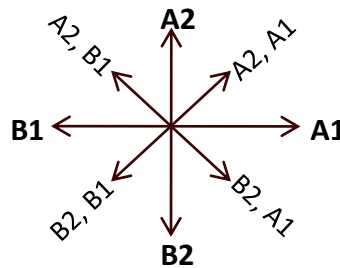
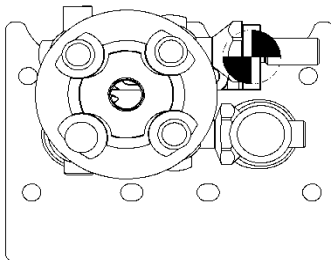
CODE : K6
Reverse Lever with
Spool Limiter



CODE : K7-A

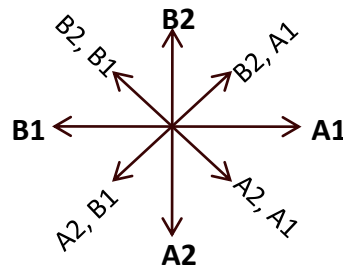
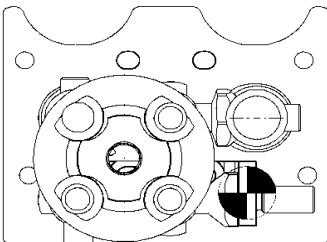
Manual joystick for 2 spools, bracket placed on top-left

* If not specified this code will be standard



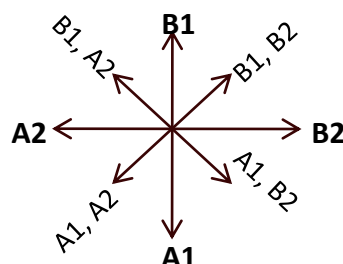
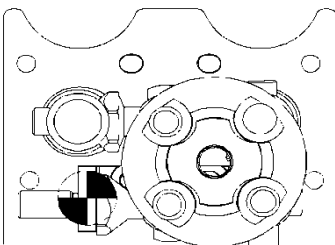
CODE : K7-B

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



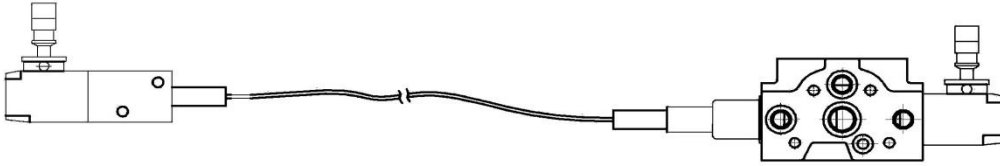
CODE : K7-C

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



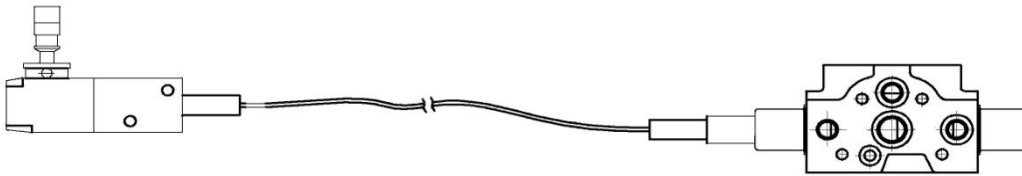
CODE : K7-D

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



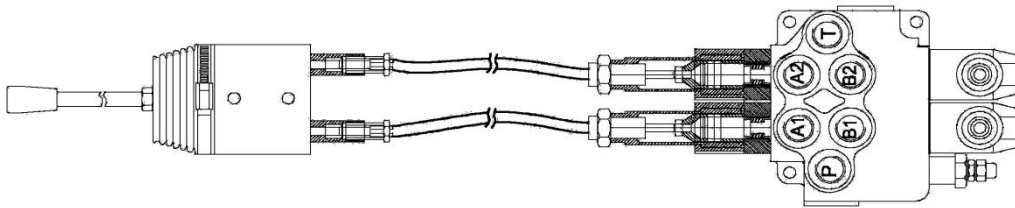
CODE : K8

Cable remote control on spring cap side



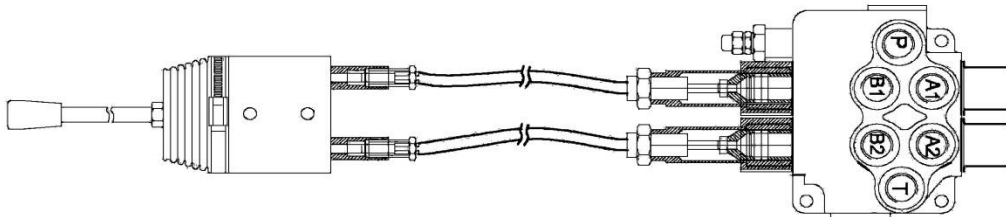
CODE : K9

Cable remote control on lever cap side



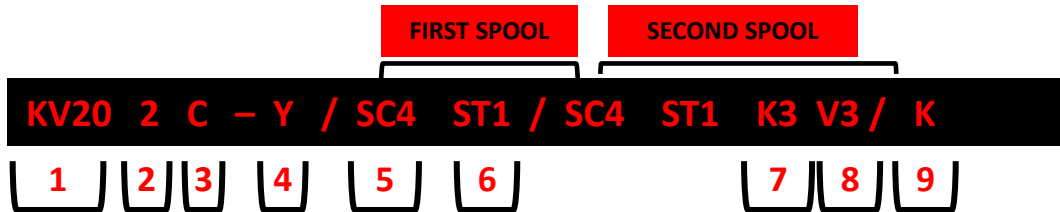
CODE : K10

Remote joystick control on spring cap side



CODE : K11

Remote joystick control on lever cap side



1	Valve Type	
2	Number Of Spools	
3	Port Threads (P, A/B, T)	C : G 3/4 (Plase contact us for other thread demands)
4	Main Relief Valve	Y : Without main relief valve R : With main relief valve (indicate pressure setting)
5	Spool Controls and Actuators	See page 10 (if necessary indicate more than one spool control or actuator)
6	Spool Types	See page 12
7	Lever Types	See page 13-15
8	Service Valves	See page 6-7
9	Outlet	See page 8 No code for standard H : High pressure carry-over K : Plugged for closed center

AMF VALVES

AMF 01 valve is a specially designed auxiliary hydraulic valve for Massey Ferguson tractors for the operation of all kinds of hydraulic attachments on the tractor.

Simple to attach and use:

- ✓ Valve can easily be attached to the tractor bolts where the cap hydraulic lift cover on the tractor has been removed.
- ✓ The three point linkage system control lever enables the user to lock and to control the movement speed of the linkage system sensitively while the handle position lock makes the control lever locked at the desired position and remains stable during the operations.



TECHNICAL SPECIFICATIONS

Number of spools	1 - 2
Nominal flow	45lt/min
Max. Operating pressure	315 Bar
Adjustable Direct Operated Relief Valve	

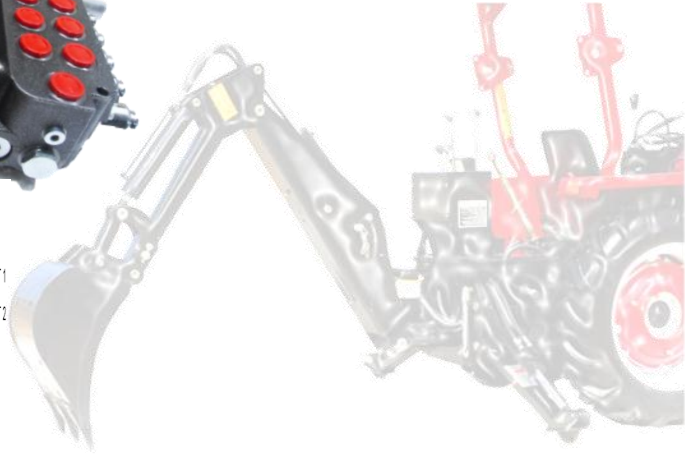
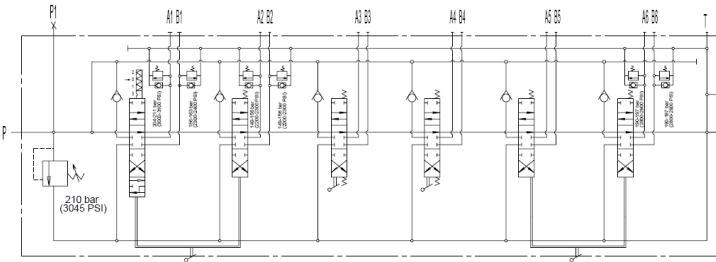
OTHER CUSTOMIZED TRACTOR VALVES



[illegible]

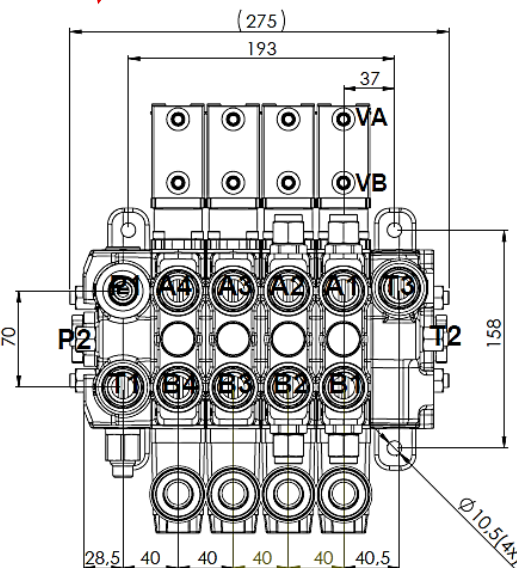
KVM126

45LPM, Monoblock Back-Hoe Valve

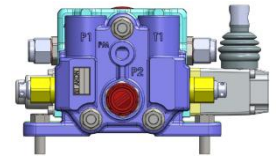


KV17 SERIES

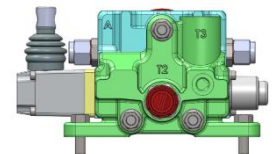
85LPM, Sectional Valve Series



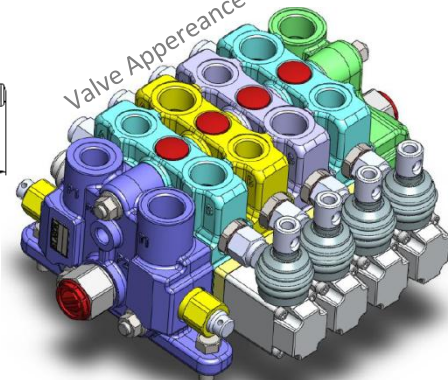
Side View



Side View



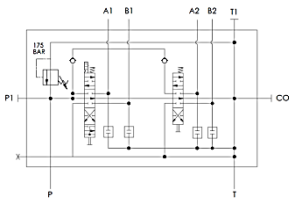
Valve Appearance



NEW

LVM92

90LPM, Monoblock Rear Ported Front Loader Valve



~ 2 Spool Open Center monoblock directional valve with closed center option,

~ Standard 4 Position Float Spool for loader boom,

~ With load hold check valves on each spool,

~ Available secondary valves as an option,

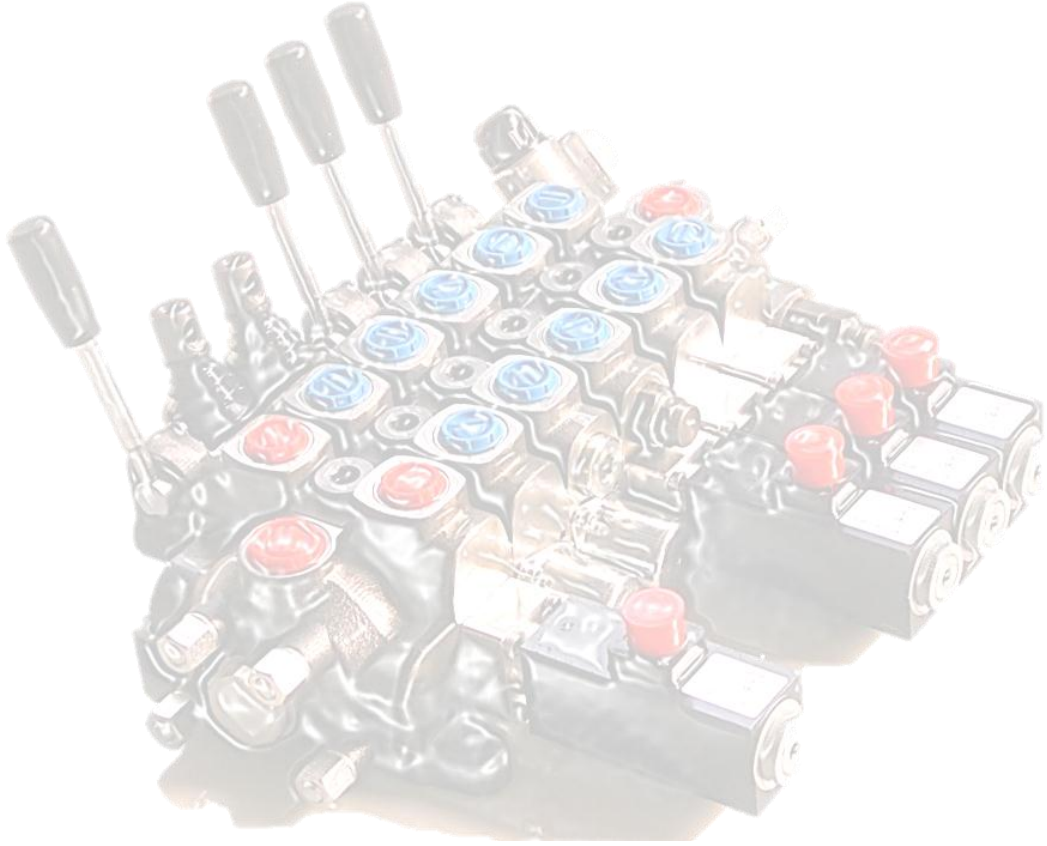
~ Wide variety of spools increasing control ability,

~ Load sensing option offers improved control and efficiency...



Compactly designed for your
Front Loaders





akışkan kontrol

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