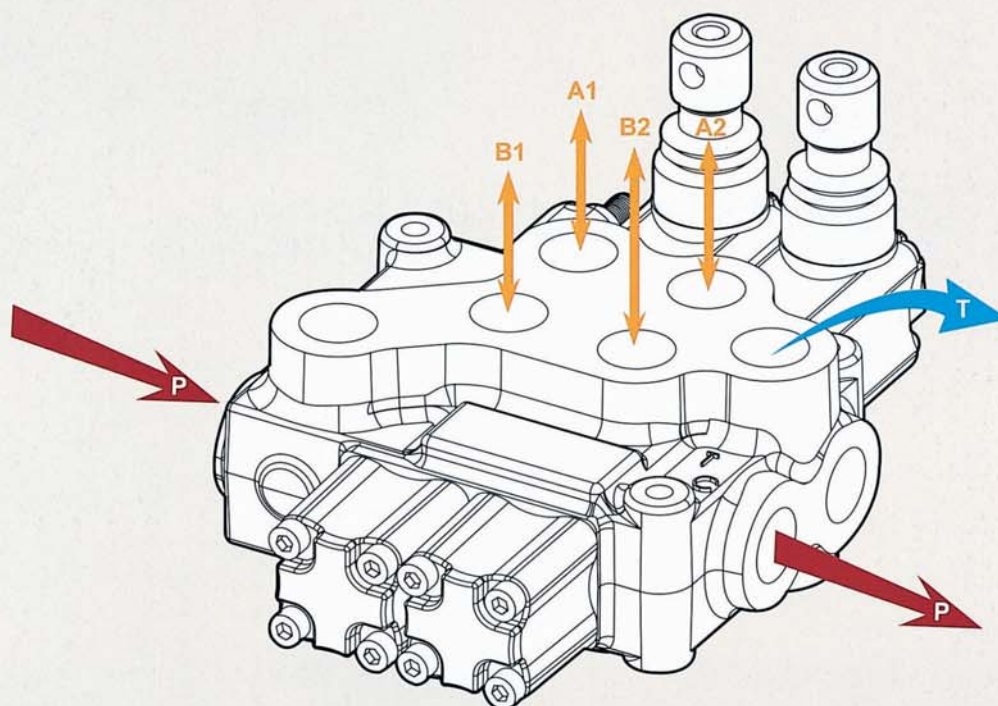


MB-4

Monoblock Directional Control Valves



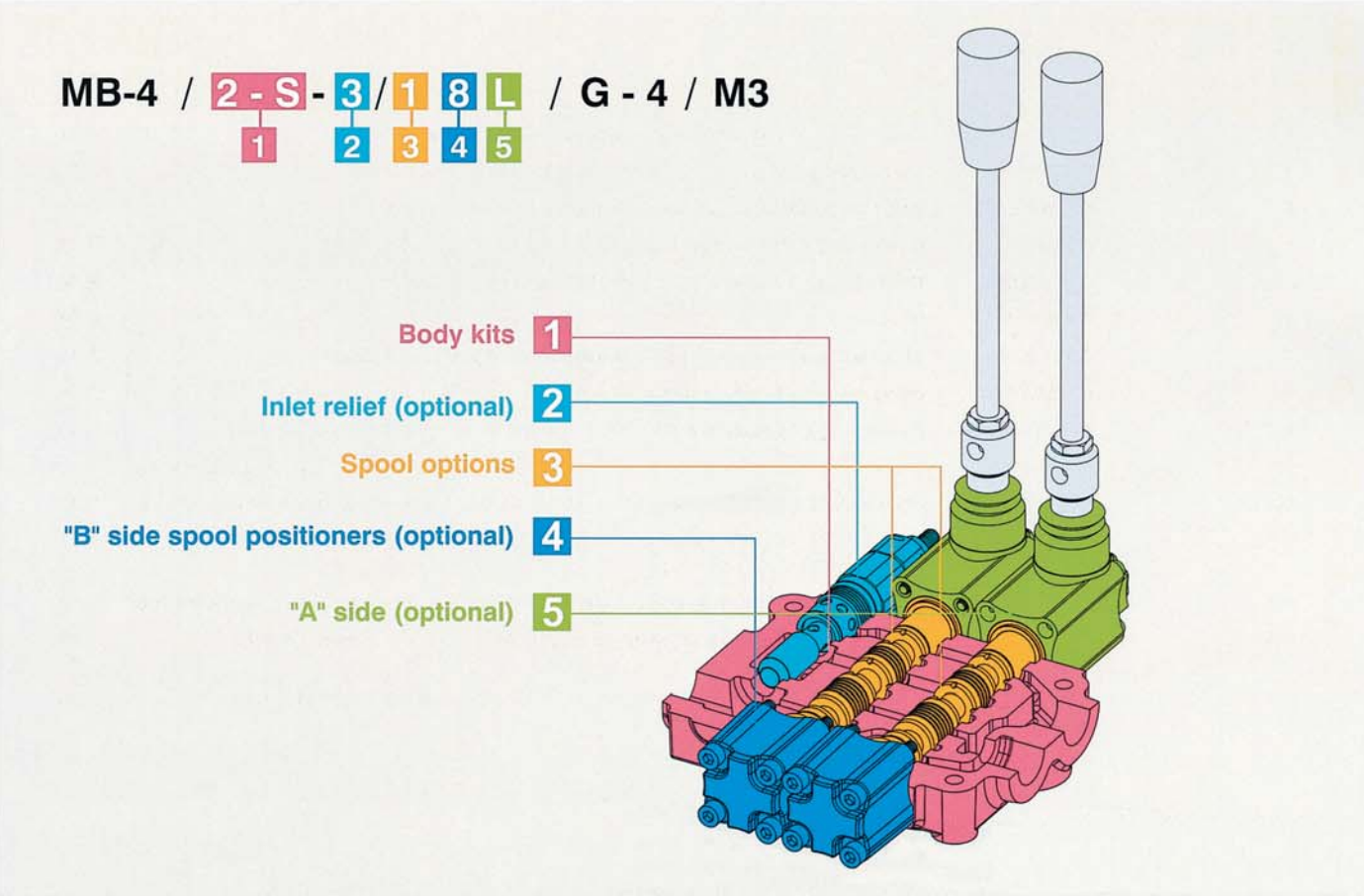
MB-4 Specifications

Nominal flow rate		60 l/min	16 US gpm
Operating pressure (maximum)	parallel or tandem circuit	315 bar	4600 psi
	series circuit	210 bar	3050 psi
Back pressure (maximum)	on outlet port T	25 bar	360 psi
Fluid temperature range	with NBR(BUNA-N) seals	from - 20° to 80°C	from - 4° to 176° F
	with FPM(VITON) seal	from - 20° to 100°C	from - 4° to 212° F
Viscosity	operating range	from 15 to 75 mm²/s	from 15 to 75 cst
	min.	12 mm²/s	12 cst
	max.	400 mm²/s	400 cst
Ambient temperature range		from - 40° to 60°C	from - 40° to 140° F

• All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.

MB-4

Monoblock Directional Control Valves



1:	Body kits	WITHOUT SERVICE PORT VALVES PREARRANGEMENT	
	TYPE	DESCRIPTION	
	1 - S	1 section	
	2 - S	2 sections	
	3 - S	3 sections	
	4 - S	4 sections	
	5 - S	5 sections	
	6 - S	6 sections	

2:	Inlet Relief (optional)		
	TYPE	CODE	PAGE
	MG-2	YLMB42002	P. 57
	MG-3	YLMB42003	P. 57
	MG-4	YLMB42004	P. 57
	SV	YLMB42100	P. 57

MB-4

Monoblock Directional Control Valves

MB-4

3: Spool options			
TYPE	CODE	DESCRIPTION	PAGE
1	YLMB43001	Double acting, 3 positions, with A, B closed in neutral position	P. 58
2	YLMB43002	Double acting, 3 positions, with A, B open to Tank in neutral position	P. 58
3	YLMB43003	Single acting on A closed in neutral position, 3 positions, B plugged	P. 59
4	YLMB43004	Single acting on B closed in neutral position, 3 positions, A plugged	P. 59
5	YLMB43005	Double acting, 3 positions, with B open to Tank in neutral position	P. 60
6	YLMB43006	Double acting, 3 positions, with A open to Tank in neutral position	P. 60
7	YLMB43007	Single acting on A open to Tank in neutral position, 3 positions, B plugged	P. 61
8	YLMB43008	Single acting on B open to Tank in neutral position, 3 positions, A plugged	P. 61
9	YLMB43009	Double acting, 3 positions, with P, T, A, B closed in neutral position (Closed center)	P. 62
1 0	YLMB43010	Double acting, 3 positions, with A, B open to Tank and P, T closed in neutral position (Closed center)	P. 62
5DY	YLMB43052	Double acting, 4 position, floating circuit in 4th position with A, B open to Tank by pulling the lever	P. 63
5PYX	YLMB430511	Double acting, 4 positions, floating circuit in 4th position with A, B open to Tank by pushing the lever (with check valve)	P. 63
5PY	YLMB43051	Double acting, 4 positions, floating circuit in 4th position with A, B open to Tank by pushing the lever	P. 64
Z41	YLMB43041	Double acting, 4 positions, regenerative circuit in 4th position with P open to A, B by pulling the lever (Rest in pos. 1)	P. 64
Z42	YLMB43042	Double acting, 4 positions, regenerative circuit in 4th position with P open to A, B by pulling the lever (Rest in pos. 0)	P. 65

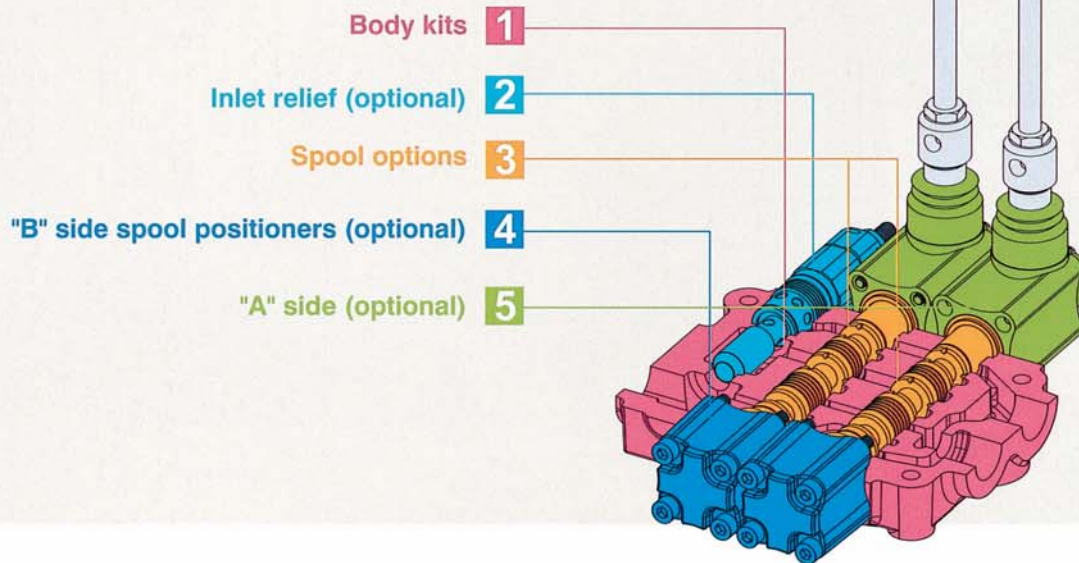
4: B Side Spool Positioners			
TYPE	CODE	DESCRIPTION	PAGE
6-1	YLMB44061	Detent in pos. 1-0-2, without spring centered	P. 69
6-2	YLMB44062	2 positions, detent in pos. 0-2, without spring centered	P. 69
6-3	YLMB44063	2 positions, detent in pos. 1-0, without spring centered	P. 69
8D2	YLMB44200	With spring return to neutral position and pin with M8 male thread for dual control	P. 69
8EP3	YLMB44300	ON/OFF Electro-Pneumatic actuator	P. 70
8P	YLMB44080	ON/OFF Pneumatic actuator	P. 70
8MG1 (NO)	YLMB44801	Microswitch kit operated in pos. 1 (Normally Open)	P. 73
8MG2 (NO)	YLMB44802	Microswitch kit operated in pos. 2 (Normally Open)	P. 73
8MG3 (NO)	YLMB44803	Microswitch kit operated in pos. 1&2 (Normally Open)	P. 73
MG (NO)	YLMB44804	Microswitch with NO terminal	P. 73
8MG1 (NC)	YLMB448011	Microswitch kit operated in pos. 1 (Normally Closed)	P. 73
8MG2 (NC)	YLMB448021	Microswitch kit operated in pos. 2 (Normally Closed)	P. 73
8MG3 (NC)	YLMB448031	Microswitch kit operated in pos. 1&2 (Normally Closed)	P. 73
MG (NC)	YLMB448041	Microswitch with NC terminal	P. 73
8	YLMB44008	With spring return to neutral position	P. 74
8-1	YLMB44081	2 positions, with spring centered from pos. 1	P. 74
8-2	YLMB44082	2 positions, with spring centered from pos. 2	P. 74
9-1	YLMB44091	Detent in pos. 1, 2 with spring centered	P. 74
9-2	YLMB44092	Detent in pos. 2 with spring centered	P. 74
9-3	YLMB44093	Detent in pos. 1 with spring centered	P. 74

MB-4

Monoblock Directional Control Valves

MB-4

MB-4 / **2 - S - 3** / **1 8 L** / **G - 4** / **M3**

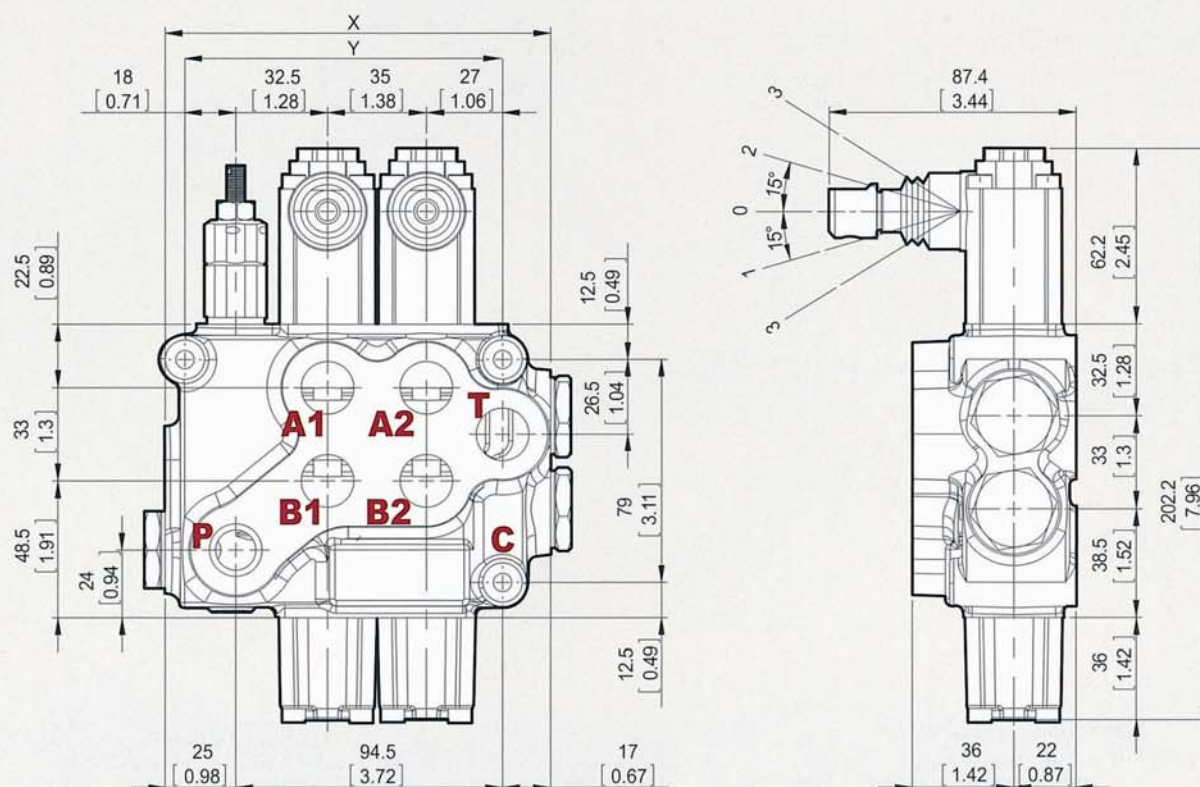


4: B Side Spool Positioners			
TYPE	CODE	DESCRIPTION	PAGE
8ED3+RV-KE1R3	YLMB44201	1S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 71
8ED3+RV-KE2R3	YLMB44202	2S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 71
8ED3+RV-KE3R3	YLMB44203	3S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 71
8ED3+RV-KE4R3	YLMB44204	4S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 71
8ED3+RV-KE5R3	YLMB44205	5S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 71
8ED3+RV-KE6R3	YLMB44206	6S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 71
8ER3+KE1S0	YLMB44401	1S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 72
8ER3+KE2S0	YLMB44402	2S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 72
8ER3+KE3S0	YLMB44403	3S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 72
8ER3+KE4S0	YLMB44404	4S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 72
8ER3+KE5S0	YLMB44405	5S:ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 72
8ER3+KE6S0	YLMB44406	6S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 72

5: A Side (optional)			
TYPE	CODE	DESCRIPTION	PAGE
L	YLMB45000	Standard lever box	P. 66
SLP	YLMB45001	Without lever box, with dust-proof plate	P. 66
LCB	YLMB45002	Joystick lever for 2 section operation	P. 67
TQ	YLMB45003	Flexible cable connection	P. 68

MB-4 Dimensions

Monoblock Directional Control Valves



Standard threads

Ports	Inlet P	A and B	Outlet T and C
BSP	G1/2	G1/2	G1/2
UN-UNF	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)
METRIC	M18x1.5	M18x1.5	M18x1.5

• G-1/2 : G4 G-3/8 : G3 G-3/4 : G6
 • SAE 8: E8 SAE 10: E10 SAE 12: E12 SAE 16: E16

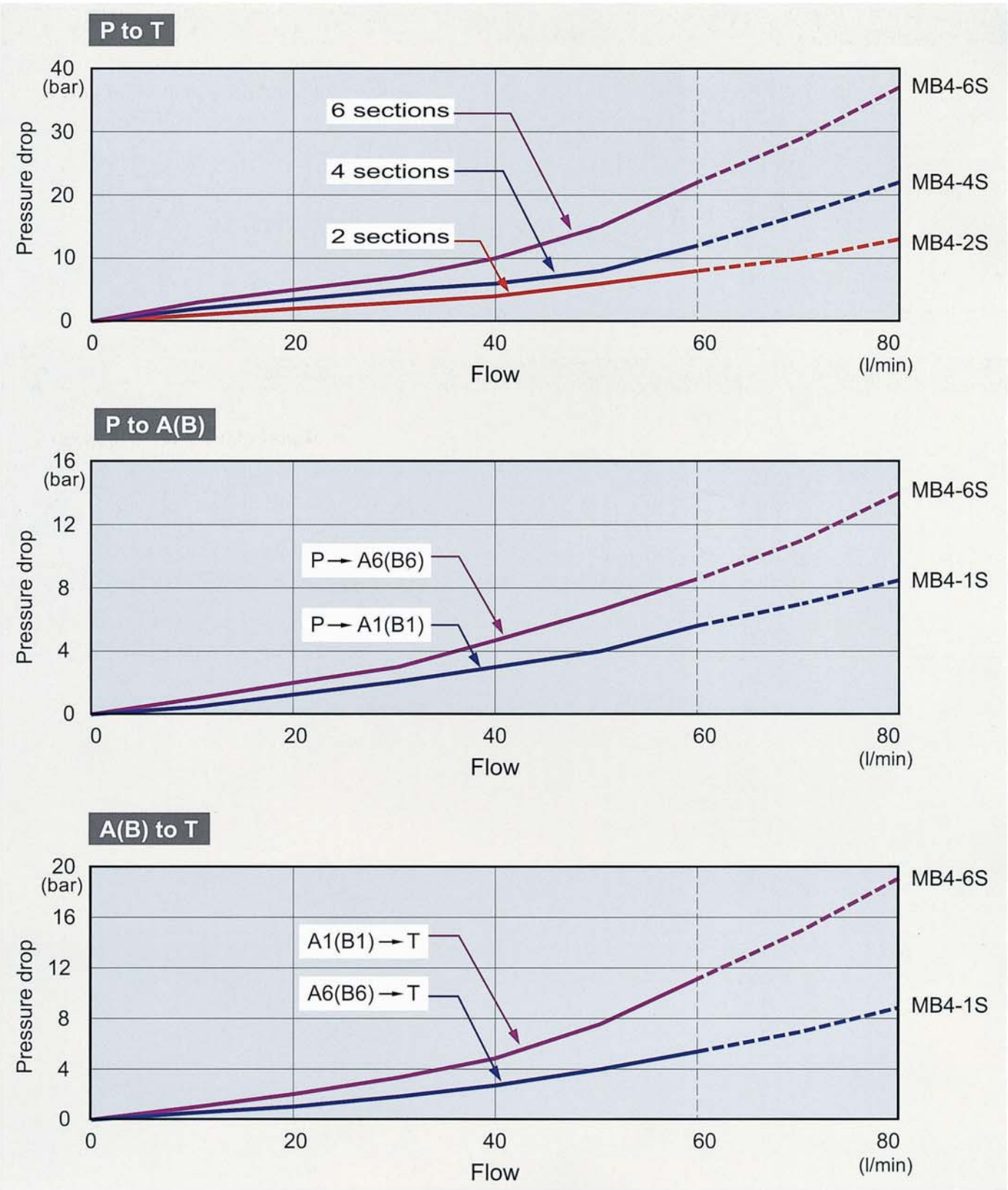
Standard dimensions

TYPE	X		Y	
	mm	in	mm	in
MB4 /1S	101.5	4	77.5	3.05
MB4 /2S	136.5	5.37	112.5	4.33
MB4 /3S	171.5	6.75	147.5	5.81
MB4 /4S	206.5	8.13	182.5	7.19
MB4 /5S	241.5	9.51	217.5	8.56
MB4 /6S	276.5	10.89	252.5	9.94

MB-4 Performance curve chart

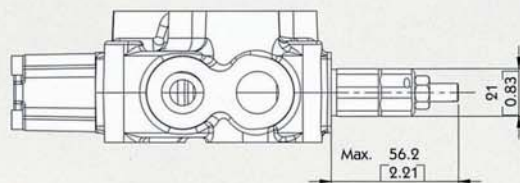
Monoblock Directional Control Valves

MB-4

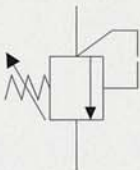


MB-4 Inlet Relief (Optional) Monoblock Directional Control Valves

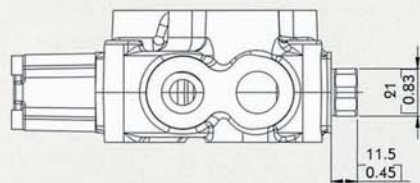
Type MG



Direct pressure relief valve:



Type SV



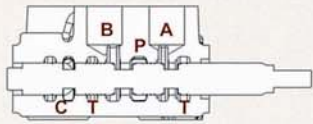
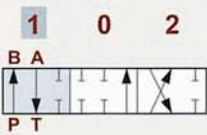
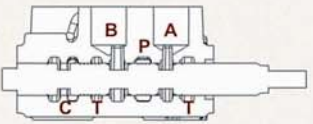
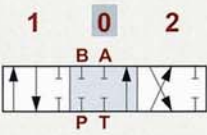
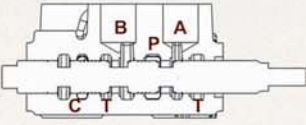
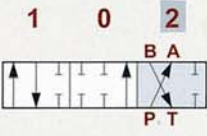
Relief valve blanking plug:



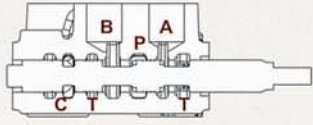
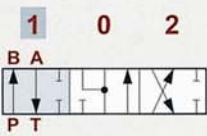
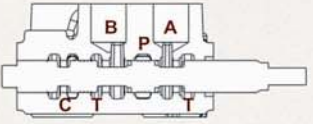
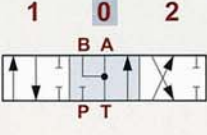
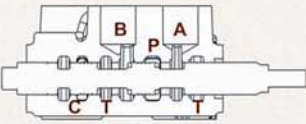
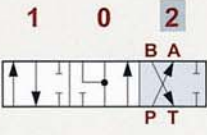
MB-4 Spool Options

Monoblock Directional Control Valves

TYPE 1

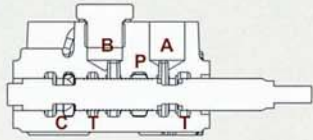
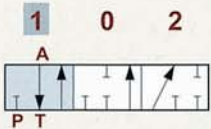
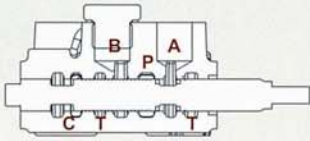
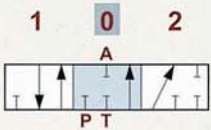
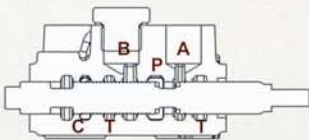
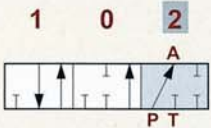
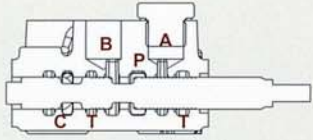
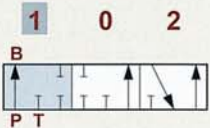
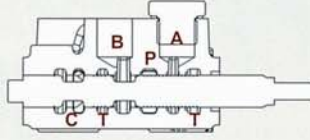
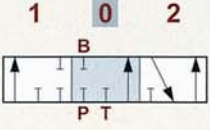
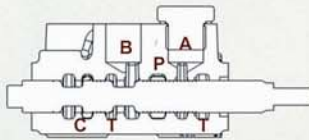
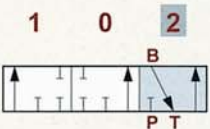
	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>P & A & B & T close</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

TYPE 2

	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>A & B → T</p> <p>P closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

MB-4 Spool Options

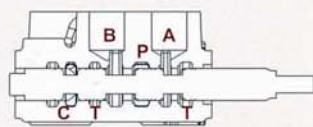
Monoblock Directional Control Valves

TYPE 3		
	<p>A → T</p> <p>P closed</p> <p>C open</p>	 <p>"B" port plugged</p>
	<p>P & A & T close</p> <p>C open</p>	 <p>"B" port plugged</p>
	<p>P → A</p> <p>T & C closed</p>	 <p>"B" port plugged</p>
TYPE 4		
	<p>P → B</p> <p>T & C closed</p>	 <p>"A" port plugged</p>
	<p>P & B & T close</p> <p>C open</p>	 <p>"A" port plugged</p>
	<p>B → T</p> <p>P closed</p> <p>C open</p>	 <p>"A" port plugged</p>

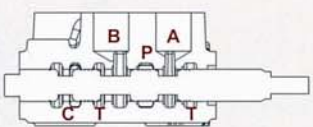
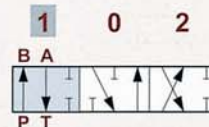
MB-4 Spool Options

Monoblock Directional Control Valves

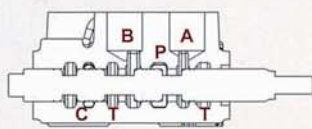
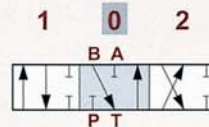
TYPE 5



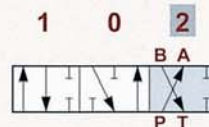
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A → T
C closed



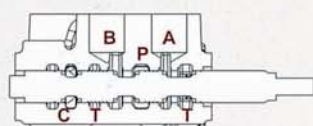
B → T
P & A close
C open



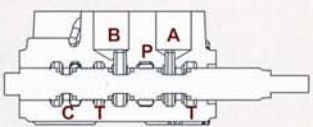
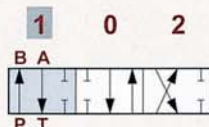
P → A
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C closed



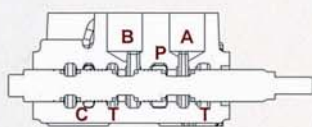
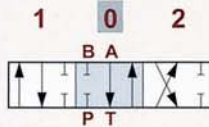
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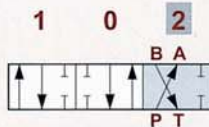
P → B
A → T
C closed



A → T
P & B closed
C open



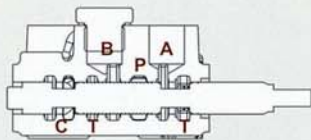
P → A
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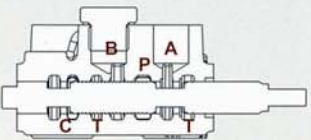
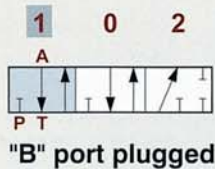
MB-4 Spool Options

Monoblock Directional Control Valves

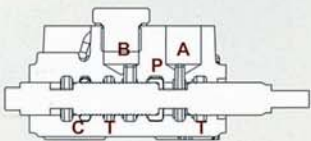
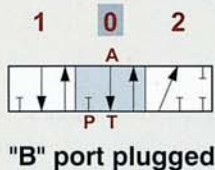
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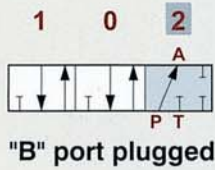
A → T
C open



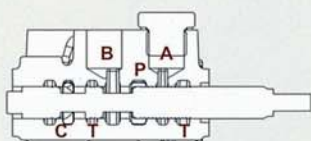
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C open



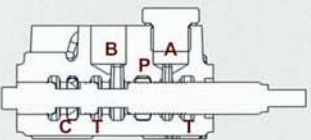
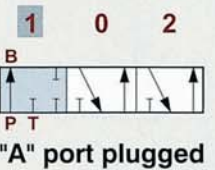
P → A
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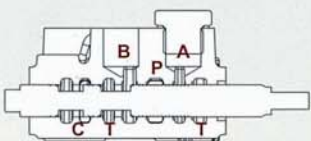
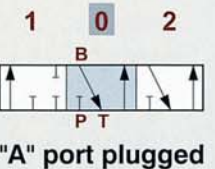
TYPE 8



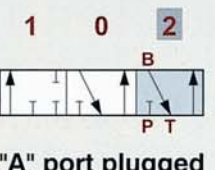
P → B
C closed



B → T
C open



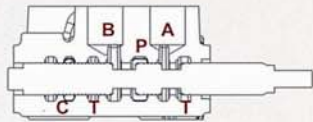
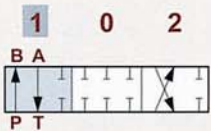
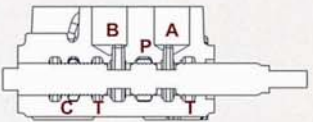
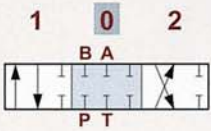
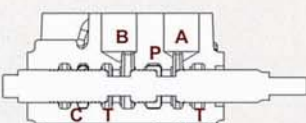
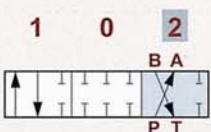
B → T
C open



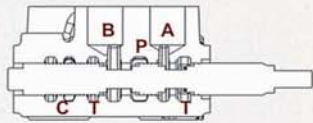
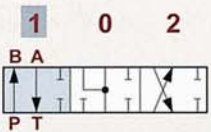
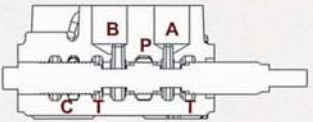
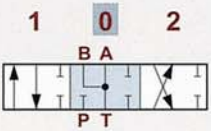
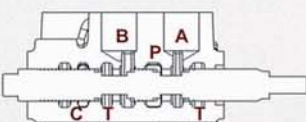
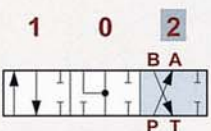
MB-4 Spool Options

Monoblock Directional Control Valves

TYPE 9

	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>P & A & B & T closed</p> <p>C closed</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

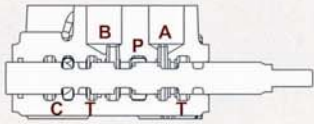
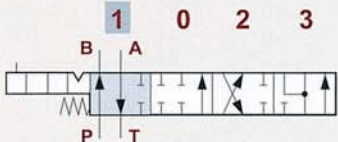
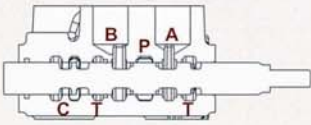
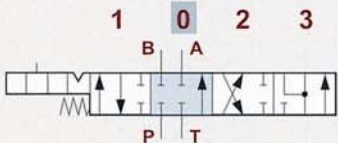
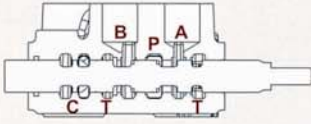
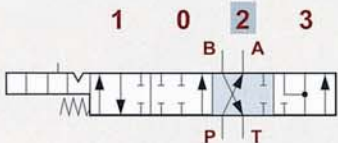
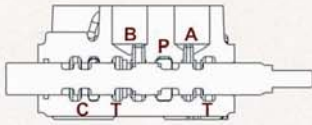
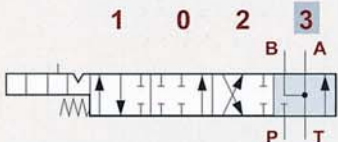

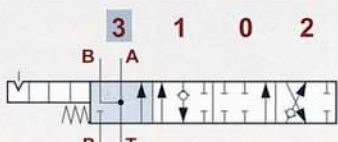

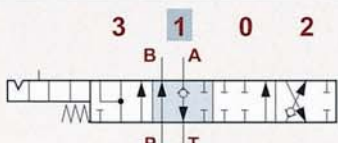
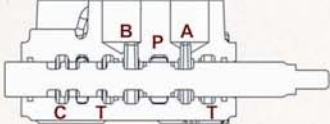
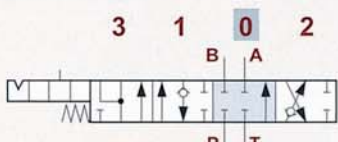
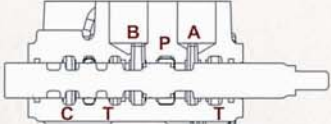
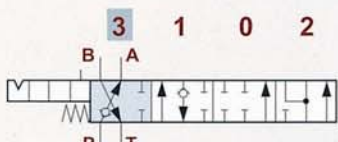
TYPE 10

	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>A & B → T</p> <p>P & C close</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

MB-4 Spool Options

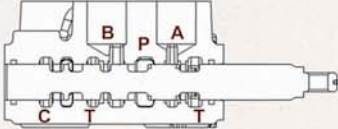
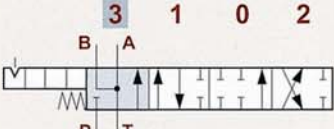
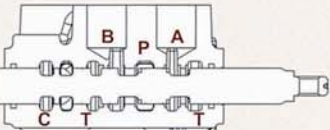
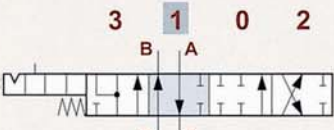
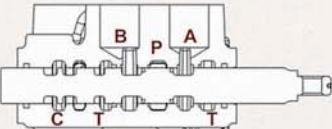
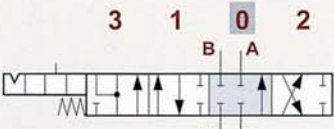
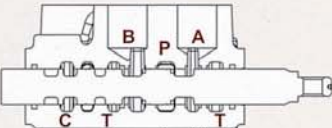
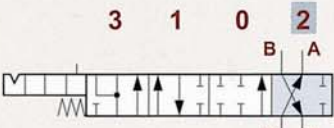
Monoblock Directional Control Valves

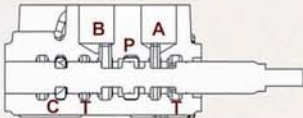
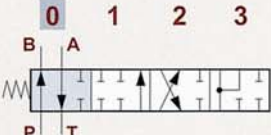
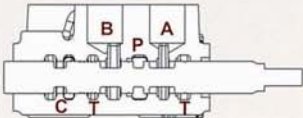

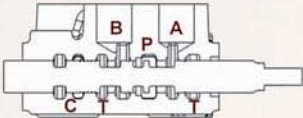
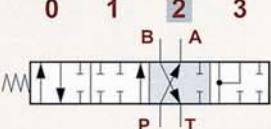
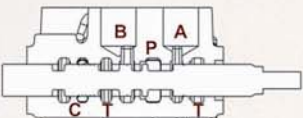
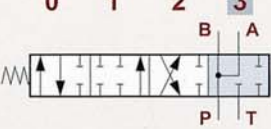
MB-4

TYPE 5DY	NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONER	
	P → B A → T C closed	
	P & T & A & B closed C open	
	P → A B → T C closed	
	A & B → T P closed C open	
TYPE 5PYX	NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONER	
	A & B → T P closed C open	
	P → B A → T C closed	
	P & T & A & B closed C open	
	P → A B → T C closed	

MB-4 Spool Options

Monoblock Directional Control Valves

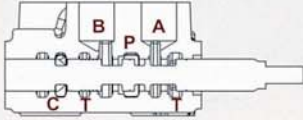
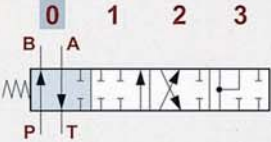
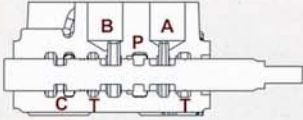
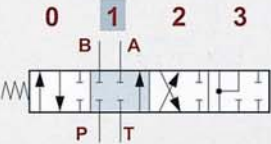
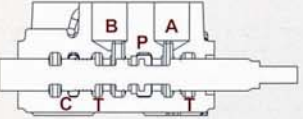
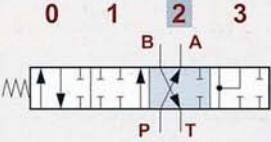
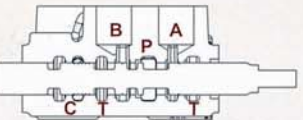
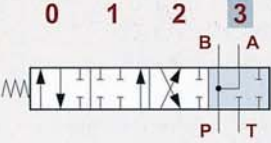
TYPE 5PY	NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONER	
	<p>A & B → T</p> <p>P closed</p> <p>C open</p>	
	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>P & T & A & B closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

TYPE Z41	NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONER	
	<p>P → B</p> <p>A → T</p> <p>C closed</p>	 Rest in pos. 1
	<p>P & A & B & T closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	
	<p>P → A & B</p> <p>T & C closed</p>	

MB-4 Spool Options

Monoblock Directional Control Valves

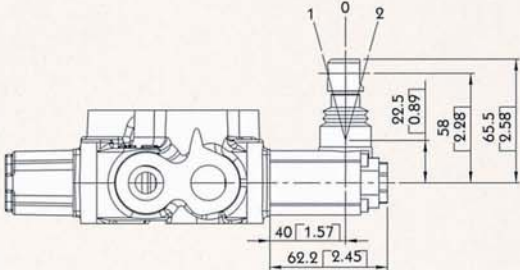
MB-4

TYPE Z42		NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONER	
	<p>P → B</p> <p>A → T</p> <p>C closed</p>		
	<p>P & A & B & T closed</p> <p>C open</p>		
	<p>P → A</p> <p>B → T</p> <p>C closed</p>		
	<p>P → A & B</p> <p>T & C closed</p>		

MB-4 A Side

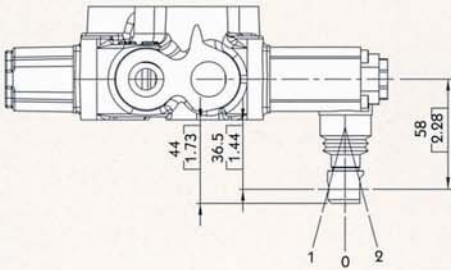
Monoblock Directional Control Valves

Type L



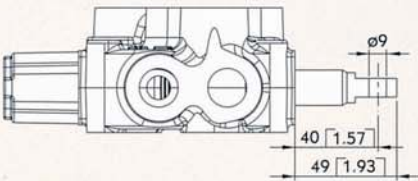
Type L:
STANDART LEVER KIT

Type R



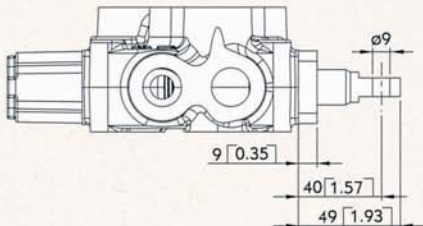
Type R:
STANDART LEVER KIT
(ROTATED 180 DEGREE)

Type SL



Type SL:
WITHOUT ANY COVER

Type SLP

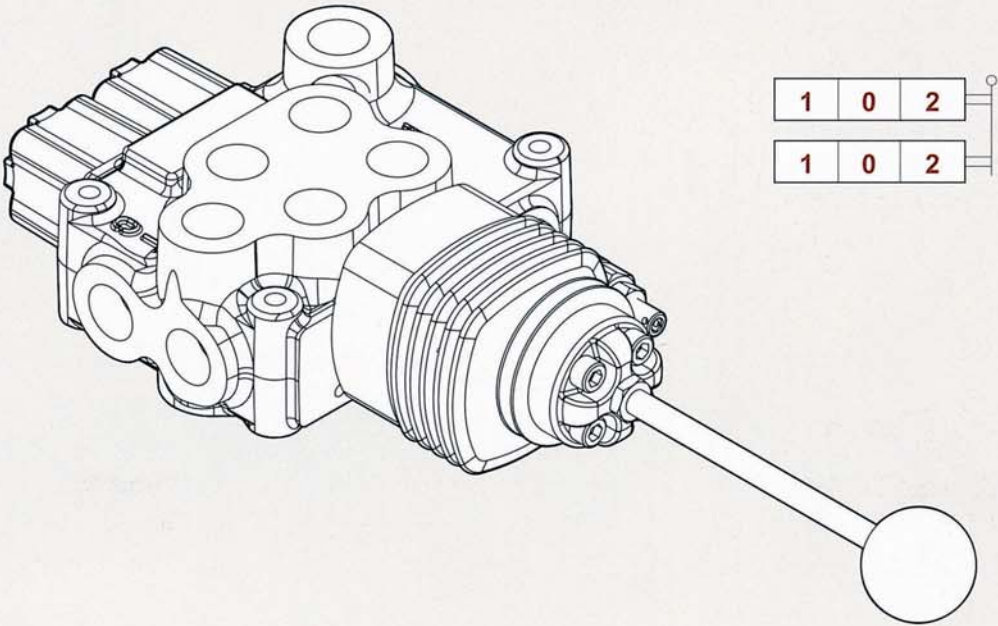


Type SLP:
WITH DUST-PROOF PLATE

MB-4

MB-4 A Side Monoblock Directional Control Valves

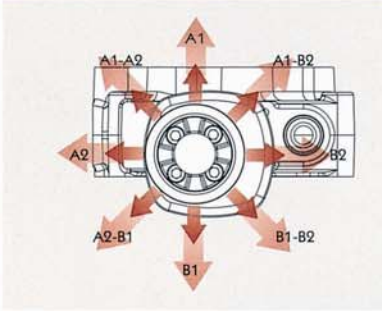
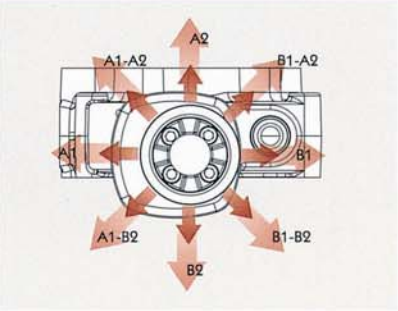
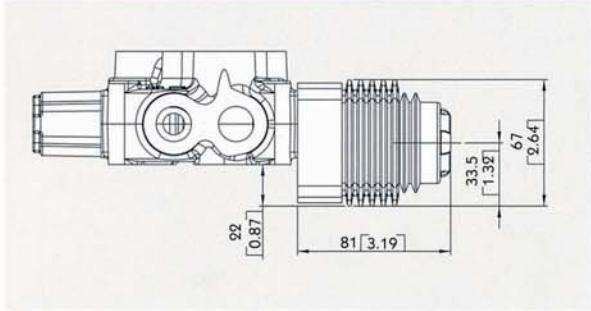
LCB: Joystick control



Type LCB

LCB1

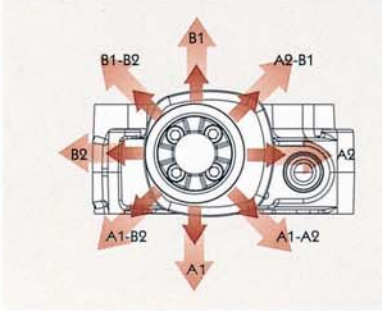
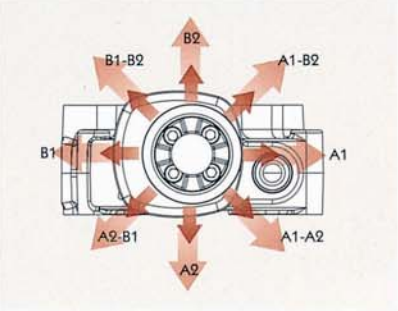
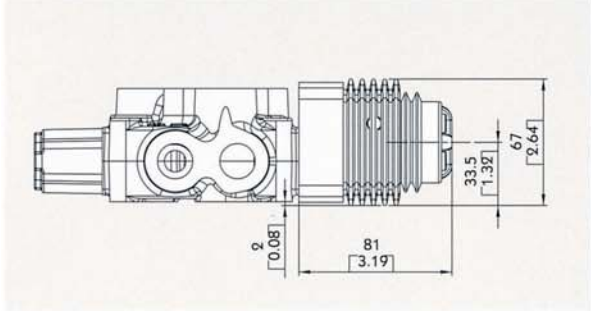
LCB2



Type LCB

LCB3

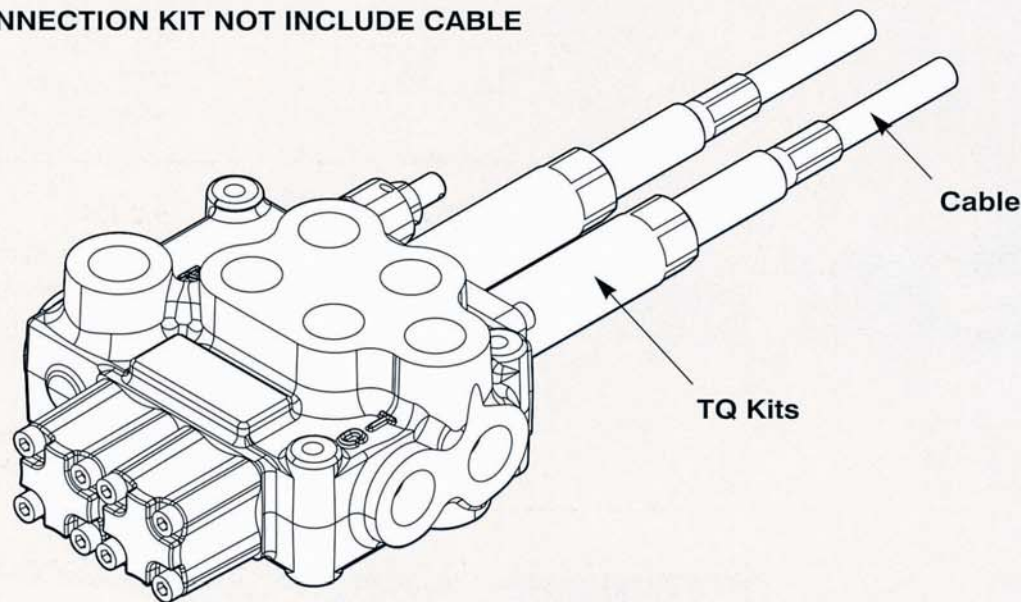
LCB4



MB-4 A Side

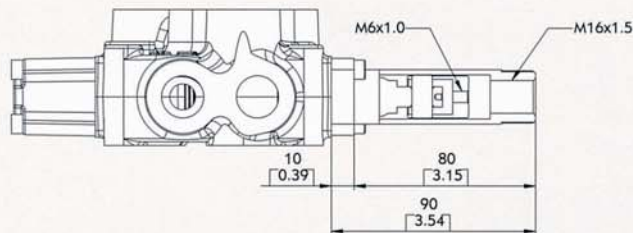
Monoblock Directional Control Valves

Note : CONNECTION KIT NOT INCLUDE CABLE



MB-4

Type TQ



TQ Kit:



MB-4 B Side Monoblock Directional Control Valves

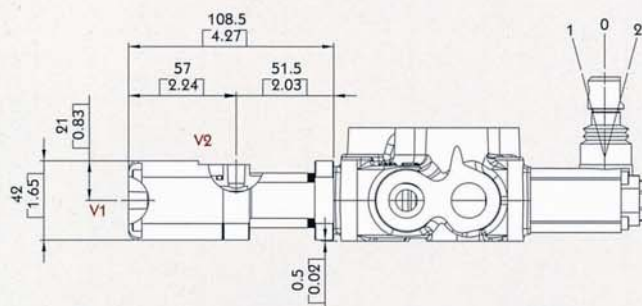
Type 6		
		6-1 Kit: DETENT IN POS. 1-0-2, WITHOUT SPRING CENTERED
		6-2 Kit: 2 POSITIONS, DETENT IN POS. 0-2, WITHOUT SPRING CENTERED
		6-3 Kit: 2 POSITIONS, DETENT IN POS. 1-0, WITHOUT SPRING CENTERED
Type 8D2		
		8D2 Kit: WITH SPRING RETURN TO NEUTRAL POSITION AND PIN WITH M8 MALE THREAD FOR DUAL CONTROL

MB-4 B Side

Monoblock Directional Control Valves

Type 8P

V1 & V2 : NPT 1/8 - 27



Operating feature :

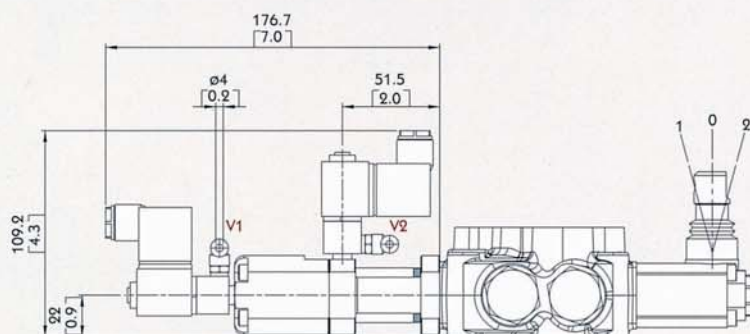
PILOT PRESSURE (MIN.) 5.5 BAR / 80 PSI

PILOT PRESSURE (MAX.) 10 BAR / 145 PSI



MB-4

Type 8EP3

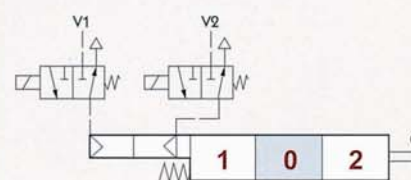


Solenoid operating features :

NOMINAL VOLTAGE: 24VDC

NOMINAL VOLTAGE TOLERANCE: $\pm 10\%$

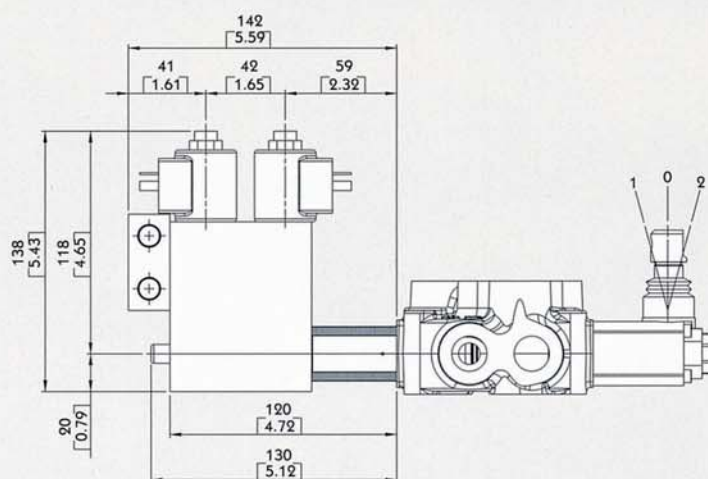
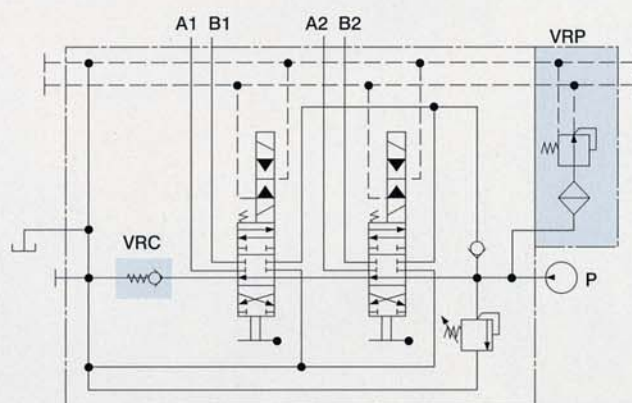
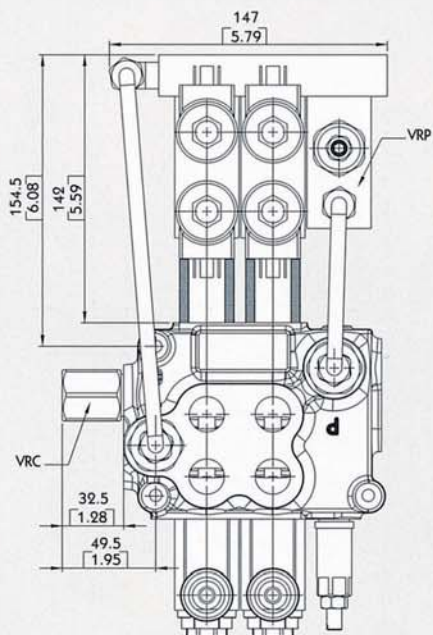
POWER RATING: 5W



MB-4 B Side

Monoblock Directional Control Valves

Type 8ED3



Operating features :

- PILOT PRESSURE:
- MIN. 10 BAR / 145 PSI
 - MAX. 50 BAR / 725 PSI
- MAX. BACKPRESSURE ON DRAIN L: 25 BAR / 360 PSI

Coil features :

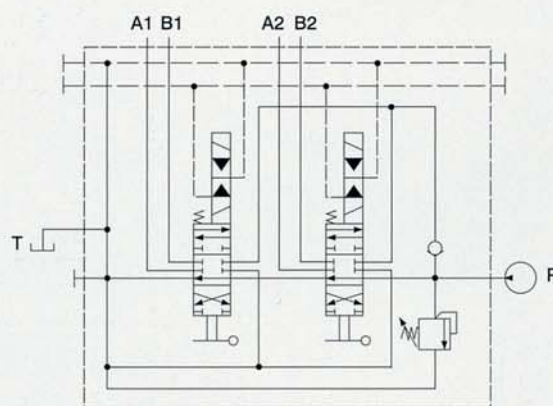
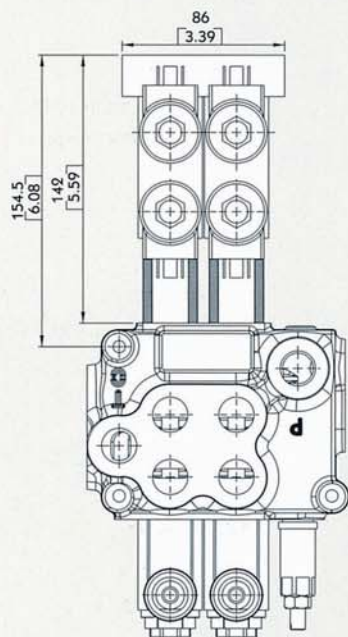
- NOMINAL VOLTAGE TOLERANCE: $\pm 10\%$
 ELECTRIC POWER: 21 W
 STANDARD VOLTAGE: 12 VDC / 24 VDC



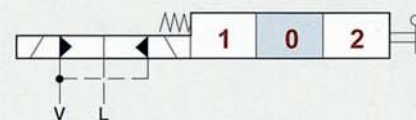
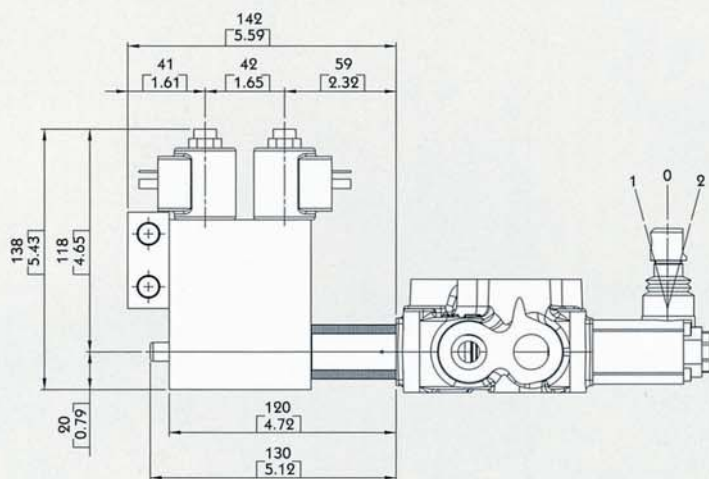
MB-4 B Side

Monoblock Directional Control Valves

Type 8ER3



MB-4



Operating features :

PILOT PRESSURE: • MIN. 10 BAR / 145 PSI
• MAX. 50 BAR / 725 PSI

MAX. BACKPRESSURE ON DRAIN L: 25 BAR / 360 PSI

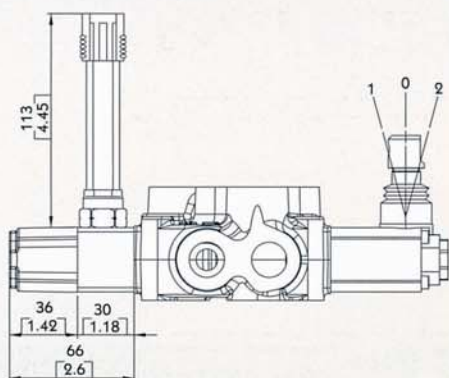
Coil features :

NOMINAL VOLTAGE TOLERANCE: $\pm 10\%$
ELECTRIC POWER: 21 W
STANDARD VOLTAGE: 12 VDC / 24 VDC

MB-4 B Side

Monoblock Directional Control Valves

Type 8MG



MICROSWITCH

Operating features :

MECHANICAL LIFE: • 5X10⁶ OPERATIONS

ELECTRICAL LIFE (RESISTIVE LOAD):

- 10⁶ OPERATIONS - 7A / 13.5 VDC
- 5x10⁴ OPERATIONS - 10A / 12 VDC
- 5x10⁴ OPERATIONS - 3A / 28 VDC



8MG1 Kit:

MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 1



8MG2 Kit:

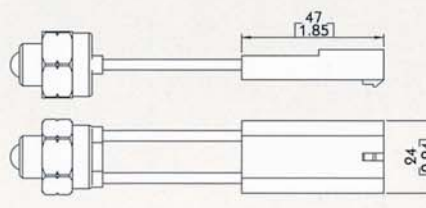
MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 2



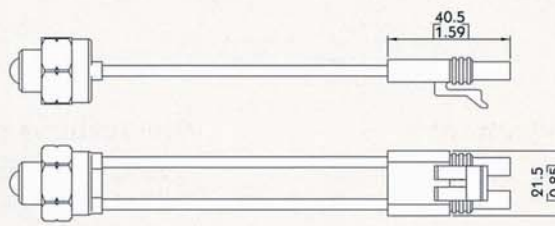
8MG3 Kit:

MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 1 AND POS. 2

With NO contact (female connector with male end)



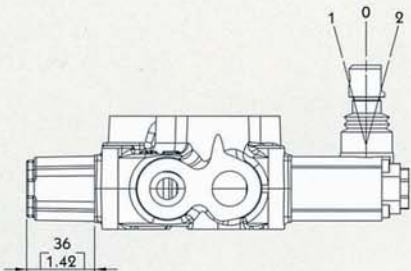
With NC contact (male connector with female end)



MB-4 B Side

Monoblock Directional Control Valves

Type 8



8 Kit:
SPRING RETURN TO NEUTRAL POSITION

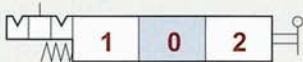
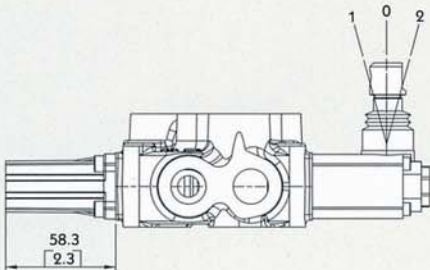


8-1 Kit:
SPRING RETURN TO NEUTRAL POSITION.
(2 POSITIONS)

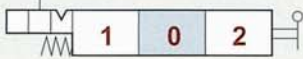


8-2 Kit:
SPRING RETURN TO NEUTRAL POSITION.
(2 POSITIONS)

Type 9



9-1 Kit:
DETENT IN POS. 1, 2 WITH SPRING CENTERED

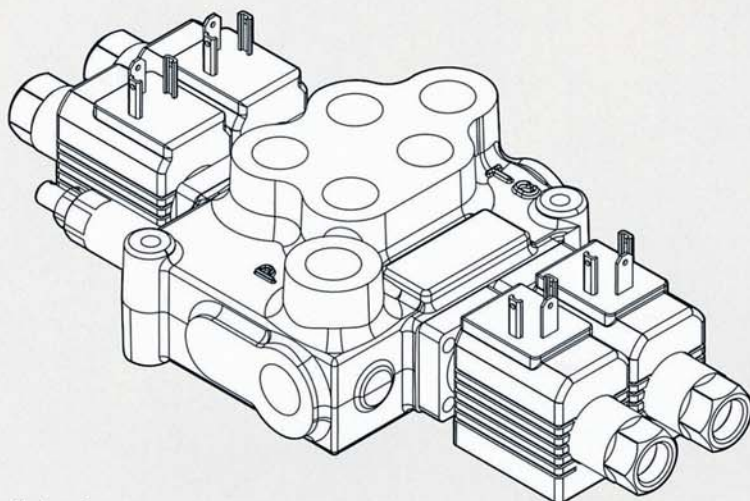


9-2 Kit:
DETENT IN POS. 2 WITH SPRING CENTERED

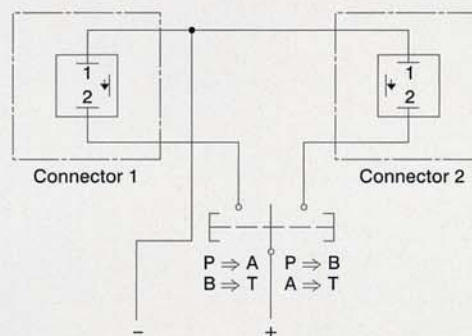


9-3 Kit:
DETENT IN POS. 1 WITH SPRING CENTERED

MB-4 B Side (Optional controls) Monoblock Directional Control Valves



Electric wiring example



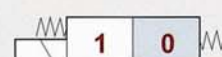
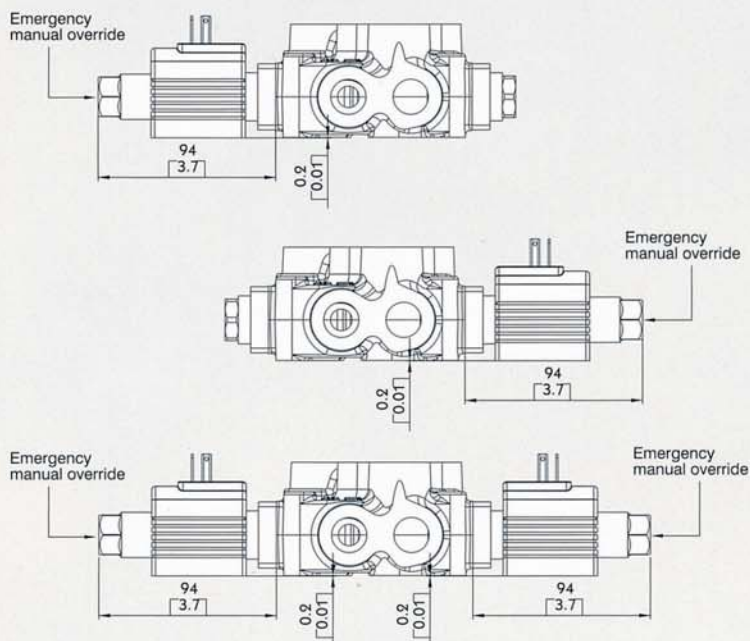
Coil features :

NOMINAL VOLTAGE TOLERANCE: $\pm 10\%$

ELECTRIC POWER: 36 W

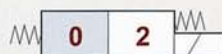
STANDARD VOLTAGE: 12 VDC / 24 VDC

Type 8ES



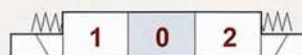
8ES1 Kit:

ACTING IN 1



8ES2 Kit:

ACTING IN 2



8ES3 Kit:

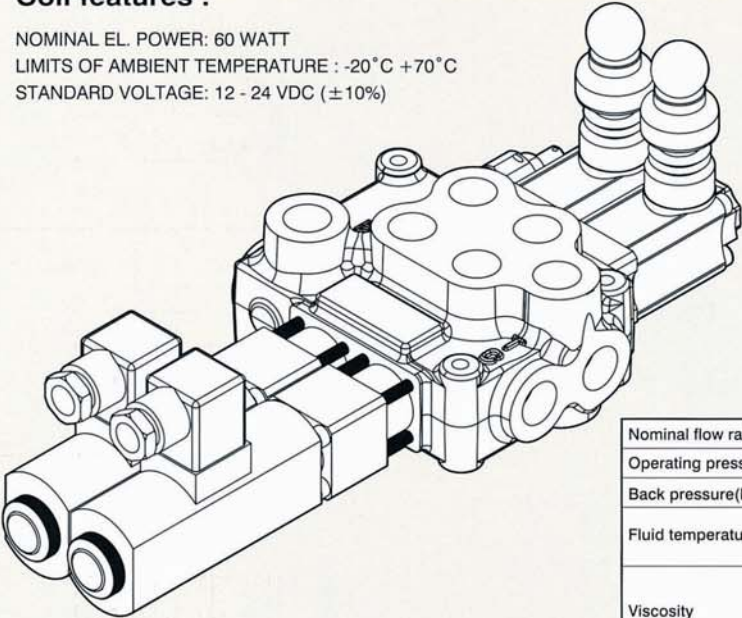
ACTING IN 1 & 2

MB-4 B Side (Optional controls)

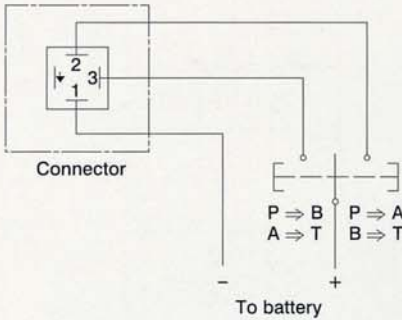
Monoblock Directional Control Valves

Coil features :

NOMINAL EL. POWER: 60 WATT
 LIMITS OF AMBIENT TEMPERATURE : -20°C +70°C
 STANDARD VOLTAGE: 12 - 24 VDC (±10%)

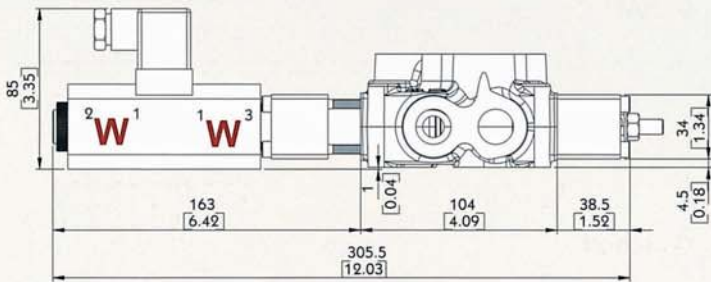
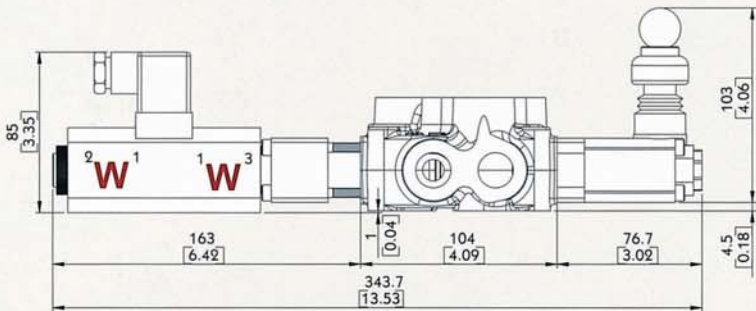


Electric wiring example

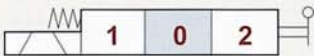


Nominal flow rating		60 L/min	16 US gpm
Operating pressure (Max.)	parallel circuit	250 bar	3600 psi
Back pressure(Max.)	on outlet port T	25 bar	360 psi
Fluid temperature	with NBR seals	-20°C ~ 80°C	-4°F ~ 176°F
	with FPM seals	-20°C ~ 100°C	-4°F ~ 212°F
Viscosity	operating range	15mm²/s ~ 75mm²/s	15 ~ 75 cst
	Max.	400mm²/s	400 cst
	Min.	12mm²/s	12 cst
Ambient temperature		-40°C ~ 60°C	-40°F ~ 140°F

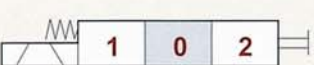
Type 8ESN



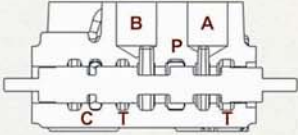
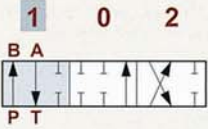
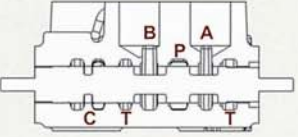
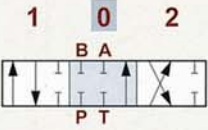
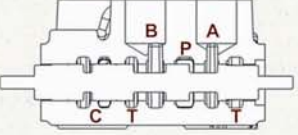
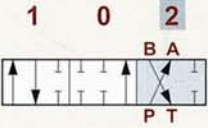
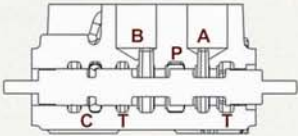
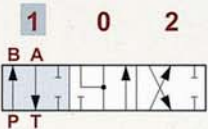
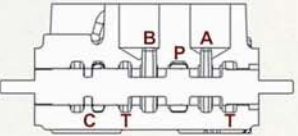
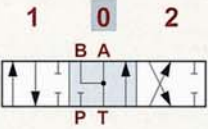
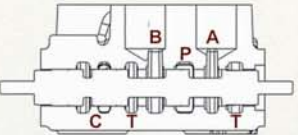
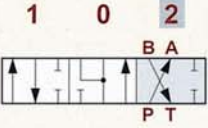
8ESNLES Kit:



8ESNCAE Kit:




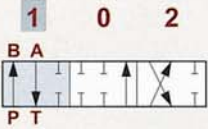
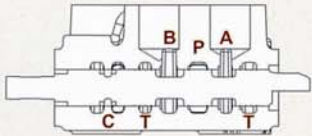
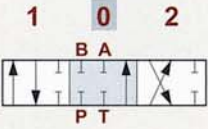
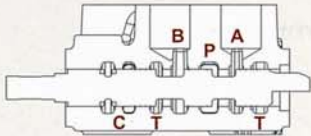
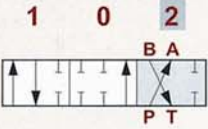
MB-4 Special spool (Options for 8ES Kit) Monoblock Directional Control Valves

Type 8ES3#1		
	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>P & T & A & B closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	
Type 8ES3#2		
	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>A & B → T</p> <p>P closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

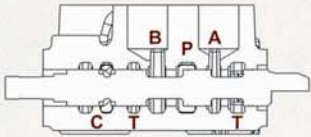
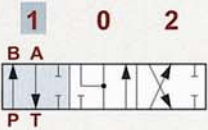
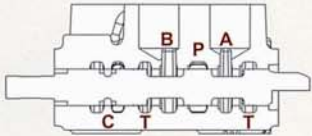
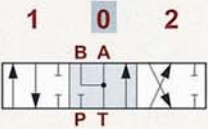
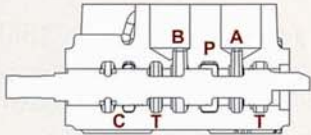
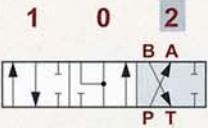
MB-4 Special spool (Options for 8ESN Kit)

Monoblock Directional Control Valves

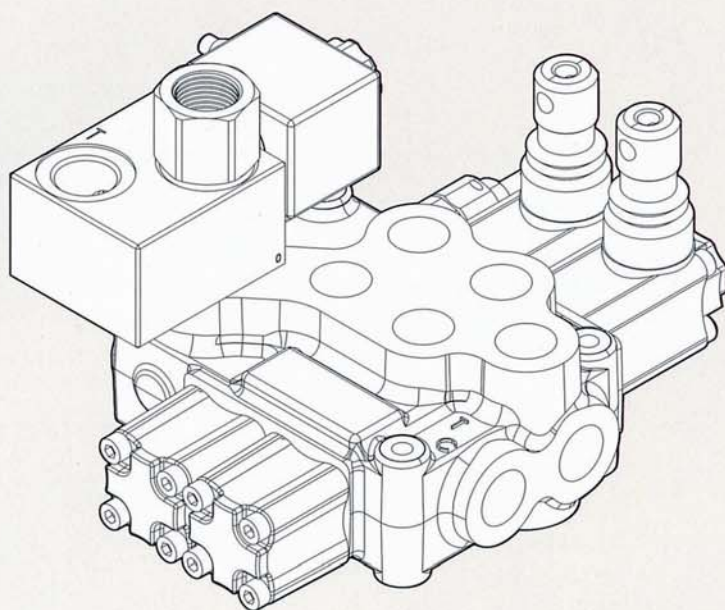
Type 8ESN#1

	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>P & T & A & B closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

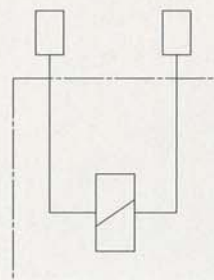
Type 8ESN#2

	<p>P → B</p> <p>A → T</p> <p>C closed</p>	
	<p>A & B → T</p> <p>P closed</p> <p>C open</p>	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	

MB-4 (Option - Dump valve (Emergency stop valve)) Monoblock Directional Control Valves

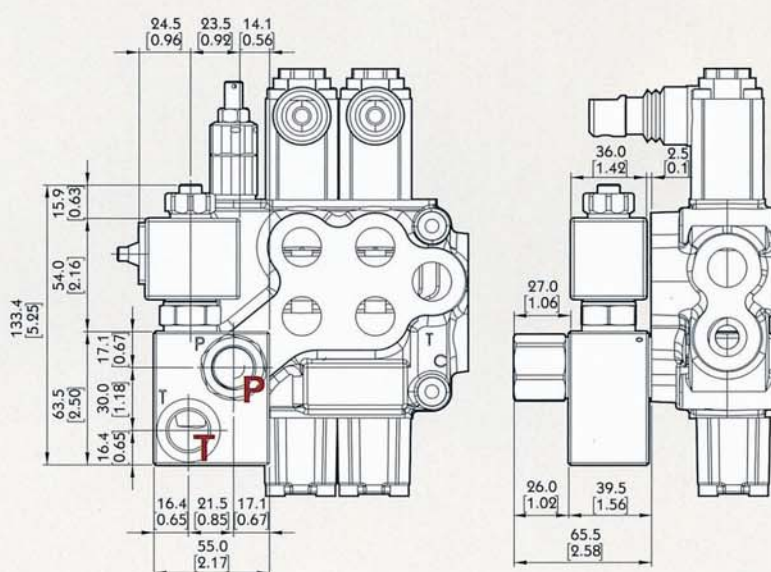


Electric wiring example

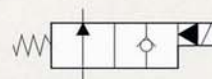


Coil features :

NOMINAL VOLTAGE TOLERANCE : $\pm 10\%$
ELECTRIC POWER : 20W
STANDARD VOLTAGE : 12VDC / 24VDC



P & T : G1/2

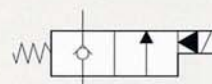


TYPE :

DUMP-G04-24VDC(NO)
DUMP-G04-12VDC(NO)

CODE :

YLMB45424
YLMB45412



TYPE :

DUMP-G04-24VDC(NC)
DUMP-G04-12VDC(NC)

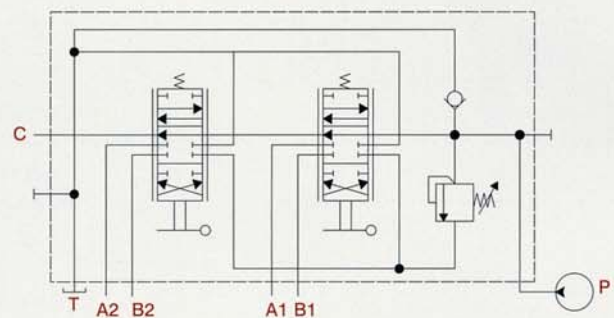
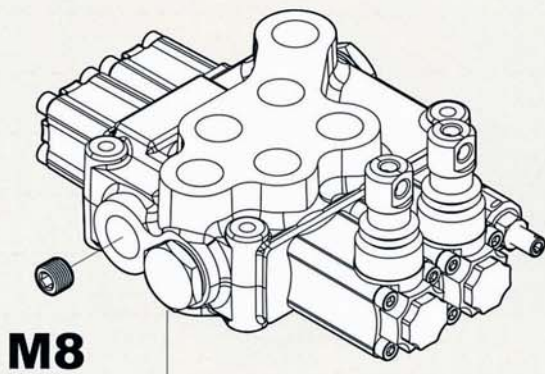
CODE :

YLMB454241
YLMB454121

MB-4 Outlet

Monoblock Directional Control Valves

Power Beyond Conversion plug
(Closed center plug)



MB-4

