

**Hydraulic  
& Offshore  
SUPPLIES**



**Monoblock Directional  
Control Valves  
MB-5 Series**

Contact our team *and*  
**Order today on:**  
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## ***MB-5*** SERIES

# Monoblock Directional Control Valves

FOR MOBILE AND INDUSTRIAL  
HYDRAULIC APPLICATIONS

Innovative Designs  
Professional Quality  
Customer Satisfaction !



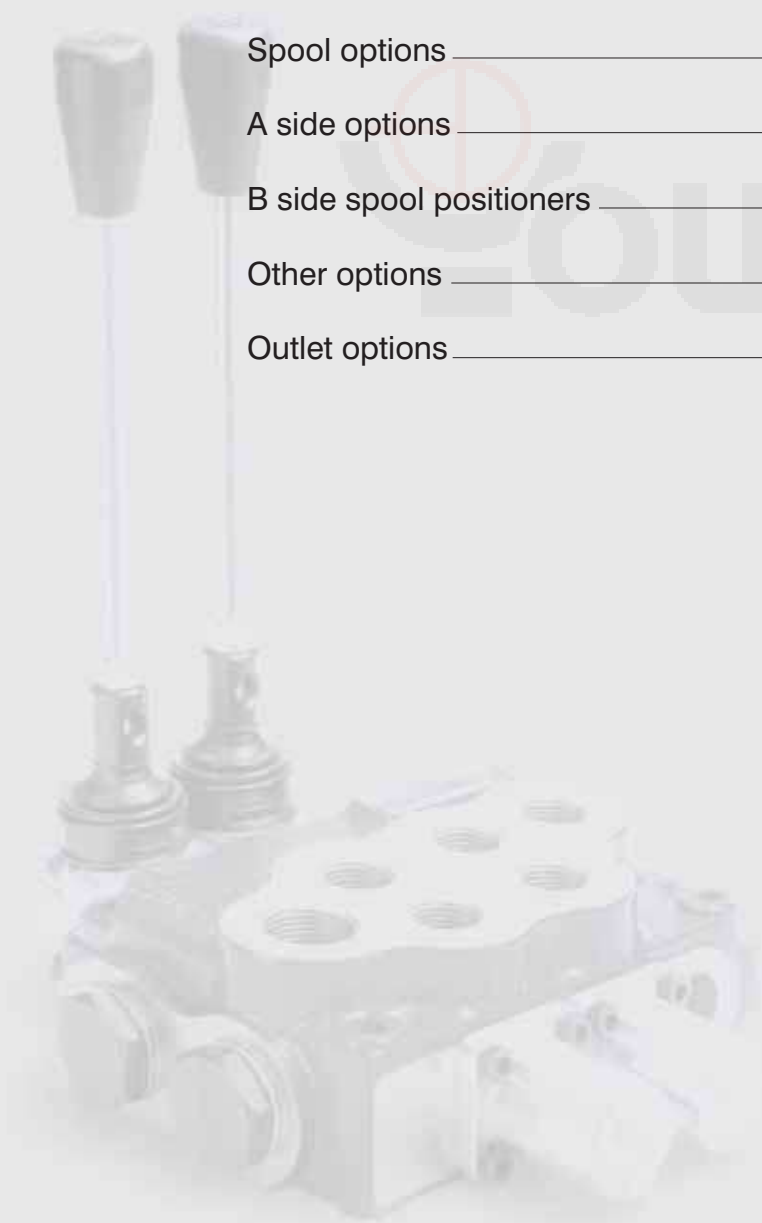
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# MB-5 Chapters

## Monoblock Directional Control Valves

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For Mobile And Industrial Hydraulic Applications.

## MONOBLOCK DIRECTIONAL CONTROL VALVES

MB-2 / MB-3 / MB-4 / MB-5 / MSB-5

## SECTIONAL DIRECTIONAL CONTROL VALVES

SN-3 / SN-4 / SN-6 / SN-8



### MB-2

ONLY ONE SECTION AVAILABLE

Nominal flow rate	45 l/min	12 US gpm
Operating pressure (maximum)	250 bar	3600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



### MB-3

AVAILABLE SECTIONS FROM 1 TO 7

Nominal flow rate	45 l/min	12 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



### MB-4

AVAILABLE SECTIONS FROM 1 TO 6

Nominal flow rate	60 l/min	16 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



### MB-5

AVAILABLE SECTIONS FROM 1 TO 6

Nominal flow rate	80 l/min	21 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



## MSB-5

AVAILABLE SECTIONS FROM 1 TO 6

With Independent load check valve in each section, and optional port relief.

Nominal flow rate	80 l/min	21 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



## SN-3

AVAILABLE SECTIONS FROM 1 TO 12

Nominal flow rate	50 l/min	13 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



## SN-4

AVAILABLE SECTIONS FROM 1 TO 12

Nominal flow rate	80 l/min	21 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



## SN-6

AVAILABLE SECTIONS FROM 1 TO 12

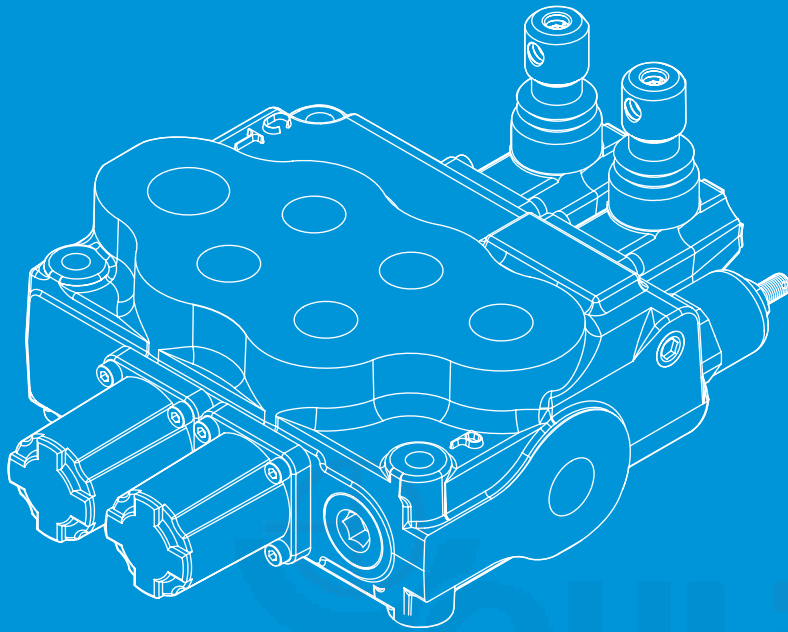
Nominal flow rate	140 l/min	37 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



## SN-8

AVAILABLE SECTIONS FROM 1 TO 12

Nominal flow rate	240 l/min	63 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



*Innovative Designs*  
*Professional Quality*  
*Customer Satisfaction !*

AVAILABLE SECTIONS FROM

1 TO 6

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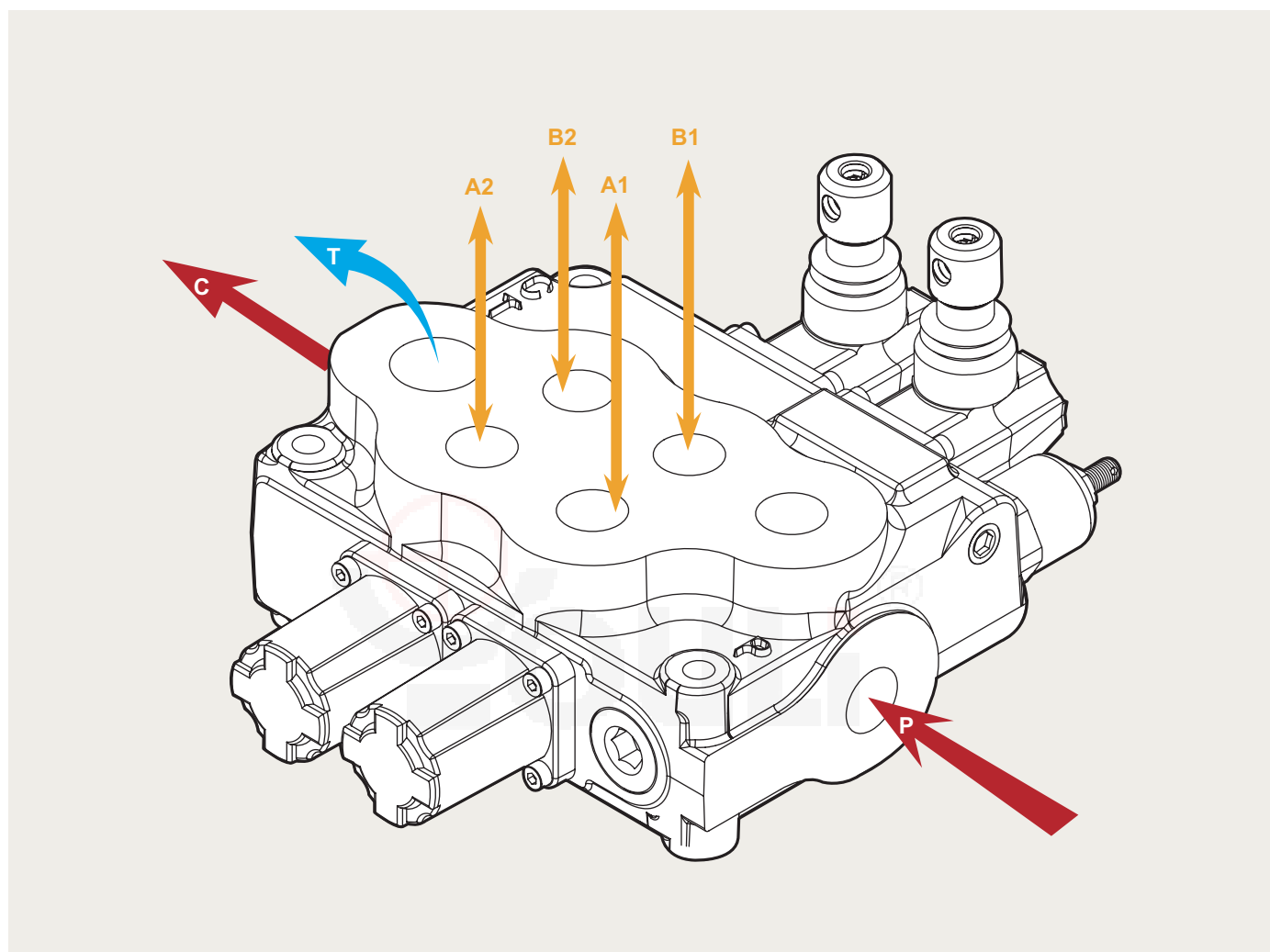
# MB-5

## Monoblock Directional Control Valves



# MB-5

## Monoblock Directional Control Valves



### MB-5 Specifications

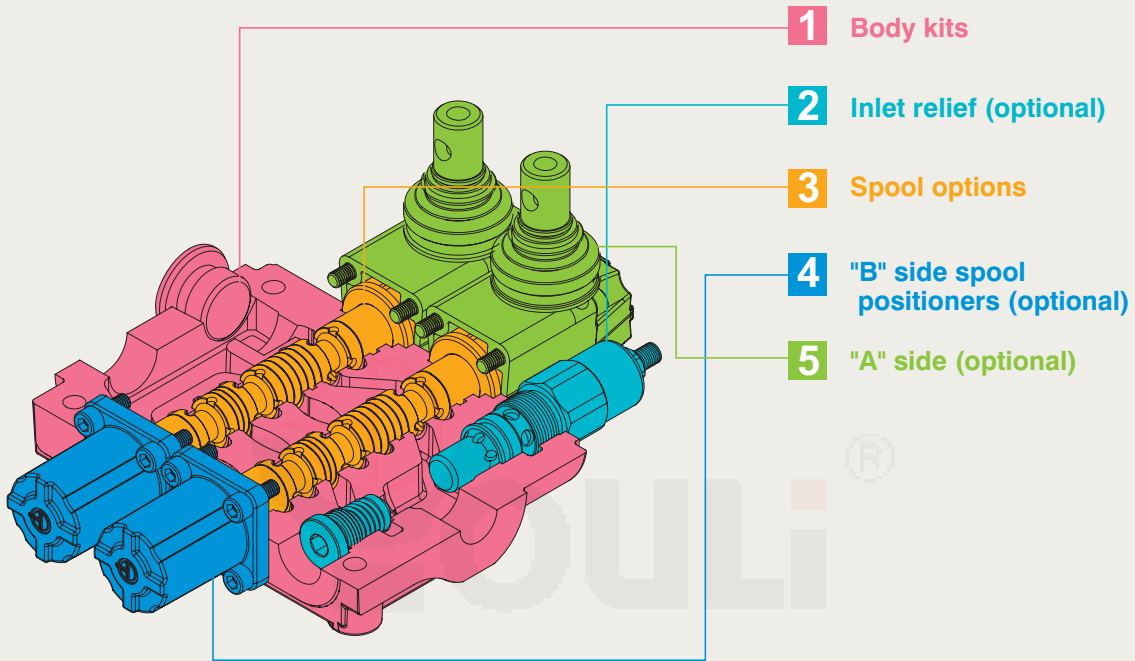
Nominal flow rate		80 l/min	21 US gpm
Operating pressure (maximum)		315 bar	4600 psi
Back pressure (maximum)	on outlet port T	25 bar	360 psi
Fluid temperature range	with NBR (BUNA-N) seals	from - 20° to 80°C	from - 4° to 176° F
	with FPM (VITON) seal	from - 20° to 100°C	from - 4° to 212° F
Viscosity	operating range	from 15 to 75 mm <sup>2</sup> /s	from 15 to 75 cst
	min.	12 mm <sup>2</sup> /s	12 cst
	max.	400 mm <sup>2</sup> /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-5

## Monoblock Directional Control Valves

MB-5 / **2S** - **3** / **18L** / **G-4-6** / M3  
 1 2 3 4 5



**1: Body kits** WITHOUT SERVICE PORT VALVES PREARRANGEMENT (INCLUDE BODY, SEALS, RINGS AND LOAD CHECK VALVE.)

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	DESCRIPTION	PAGE
XAG	YLX21000	Pilot operated pressure relief valve Range 25 to 315 bar/ 360 to 4600 psi, standard setting 125 bar/ 1800 psi	P. 11
AG-2	YLMB52002	Direct pressure relief valve Range 80 to 160 bar/ 1150 to 2300 psi, standard setting 125 bar/ 1800 psi	P. 11
AG-3	YLMB52003	Direct pressure relief valve Range 125 to 250 bar/ 1800 to 3600 psi, standard setting 175 bar/ 2500 psi	P. 11
AG-4	YLMB52004	Direct pressure relief valve Range 200 to 315 bar/ 2900 to 4600 psi, standard setting 220 bar/ 3200 psi	P. 11
SV	YLMB52100	Relief valve blanking plug	P. 11



# MB-5

## Monoblock Directional Control Valves

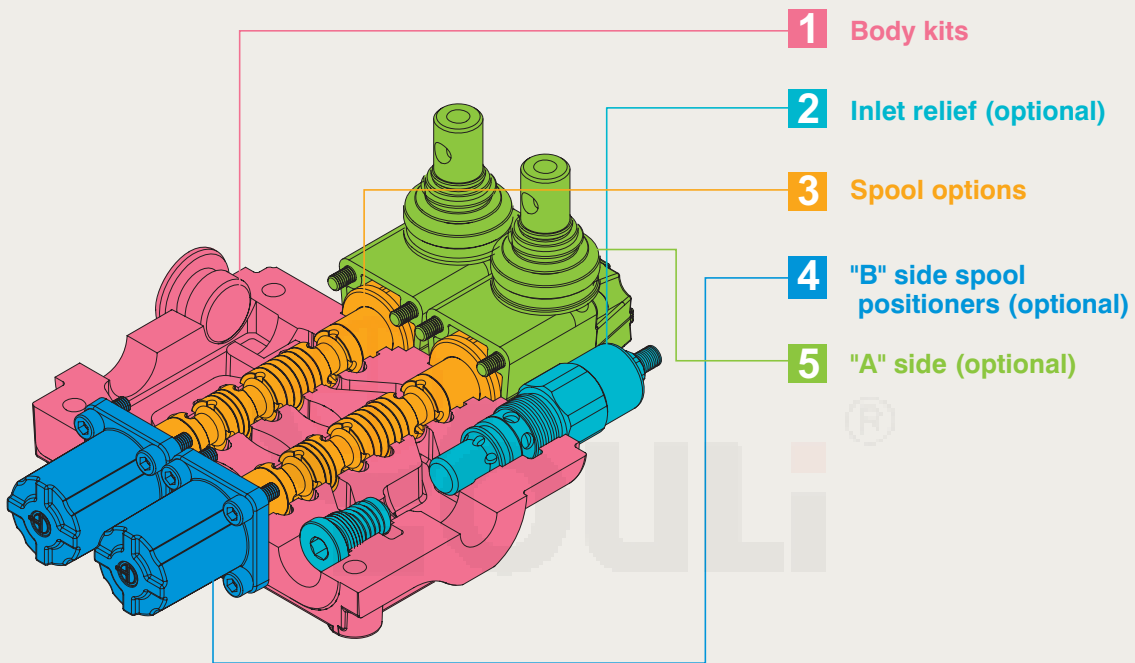
3: Spool Options			
TYPE	CODE	DESCRIPTION	PAGE
1	YLMB53001	Double acting, 3 positions, with A, B closed in neutral position	P. 12
2	YLMB53002	Double acting, 3 positions, with A, B open to Tank in neutral position	P. 12
3	YLMB53003	Single acting on A closed in neutral position, 3 positions, B plugged	P. 13
4	YLMB53004	Single acting on B closed in neutral position, 3 positions, A plugged	P. 13
5	YLMB53005	Double acting, 3 positions, with B open to Tank in neutral position	P. 14
6	YLMB53006	Double acting, 3 positions, with A open to Tank in neutral position	P. 14
9	YLMB53009	Double acting, 3 positions, with P, T, A, B closed in neutral position (Closed center)	P. 15
10	YLMB53010	Double acting, 3 positions, with A, B open to Tank and P, T closed in neutral position (Closed center)	P. 15
5DY	YLMB53052	Double acting, 4 positions, floating circuit in 4th position with A,B open to Tank by pulling the lever	P. 16
5PY	YLMB53051	Double acting, 4 positions, floating circuit in 4th position with A, B open to Tank by pushing the lever	P. 17

4: B Side Spool Positioners			
TYPE	CODE	DESCRIPTION	PAGE
6-1	YLMB54061	Detent in pos. 1-0-2, without spring centered	P. 21
6-2	YLMB54062	2 positions, detent in pos. 0-2, without spring centered	P. 21
6-3	YLMB54063	2 positions, detent in pos. 1-0, without spring centered	P. 21
8D2	YLMB54082	With spring return to neutral position and pin with M8 male thread for dual control	P. 21
8EP3	YLMB54300	ON/OFF Electro-Pneumatic actuator	P. 22
8P	YLMB54080	ON/OFF Pneumatic actuator	P. 22
8MG1 (NO)	YLMB54801	Microswitch kit operated in pos. 1 (Normally Open)	P. 25
8MG2 (NO)	YLMB54802	Microswitch kit operated in pos. 2 (Normally Open)	P. 25
8MG3 (NO)	YLMB54803	Microswitch kit operated in pos. 1&2 (Normally Open)	P. 25
MG (NO)	YLMB54804	Microswitch with NO terminal	P. 25
8MG1 (NC)	YLMB548011	Microswitch kit operated in pos. 1 (Normally Closed)	P. 25
8MG2 (NC)	YLMB548021	Microswitch kit operated in pos. 2 (Normally Closed)	P. 25
8MG3 (NC)	YLMB548031	Microswitch kit operated in pos. 1&2 (Normally Closed)	P. 25
MG (NC)	YLMB548041	Microswitch with NC terminal	P. 25
8	YLMB54008	With spring return to neutral position	P. 26
8-1	YLMB54810	2 positions, with spring centered from pos. 1	P. 26
8-2	YLMB54820	2 positions, with spring centered from pos. 2	P. 26
9-1	YLMB54091	Detent in pos. 1, 2 with spring centered	P. 26
9-2	YLMB54092	Detent in pos. 2 with spring centered	P. 26
9-3	YLMB54093	Detent in pos. 1 with spring centered	P. 26
8ED3+RV-KE1R3	YLMB54201	1S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 23
8ED3+RV-KE2R3	YLMB54202	2S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 23
8ED3+RV-KE3R3	YLMB54203	3S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 23
8ED3+RV-KE4R3	YLMB54204	4S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 23
8ED3+RV-KE5R3	YLMB54205	5S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 23
8ED3+RV-KE6R3	YLMB54206	6S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 23

# MB-5

## Monoblock Directional Control Valves

MB-5 / **2S** - **3** / **18L** / G-4-6 / M3  
 1 2 3 4 5

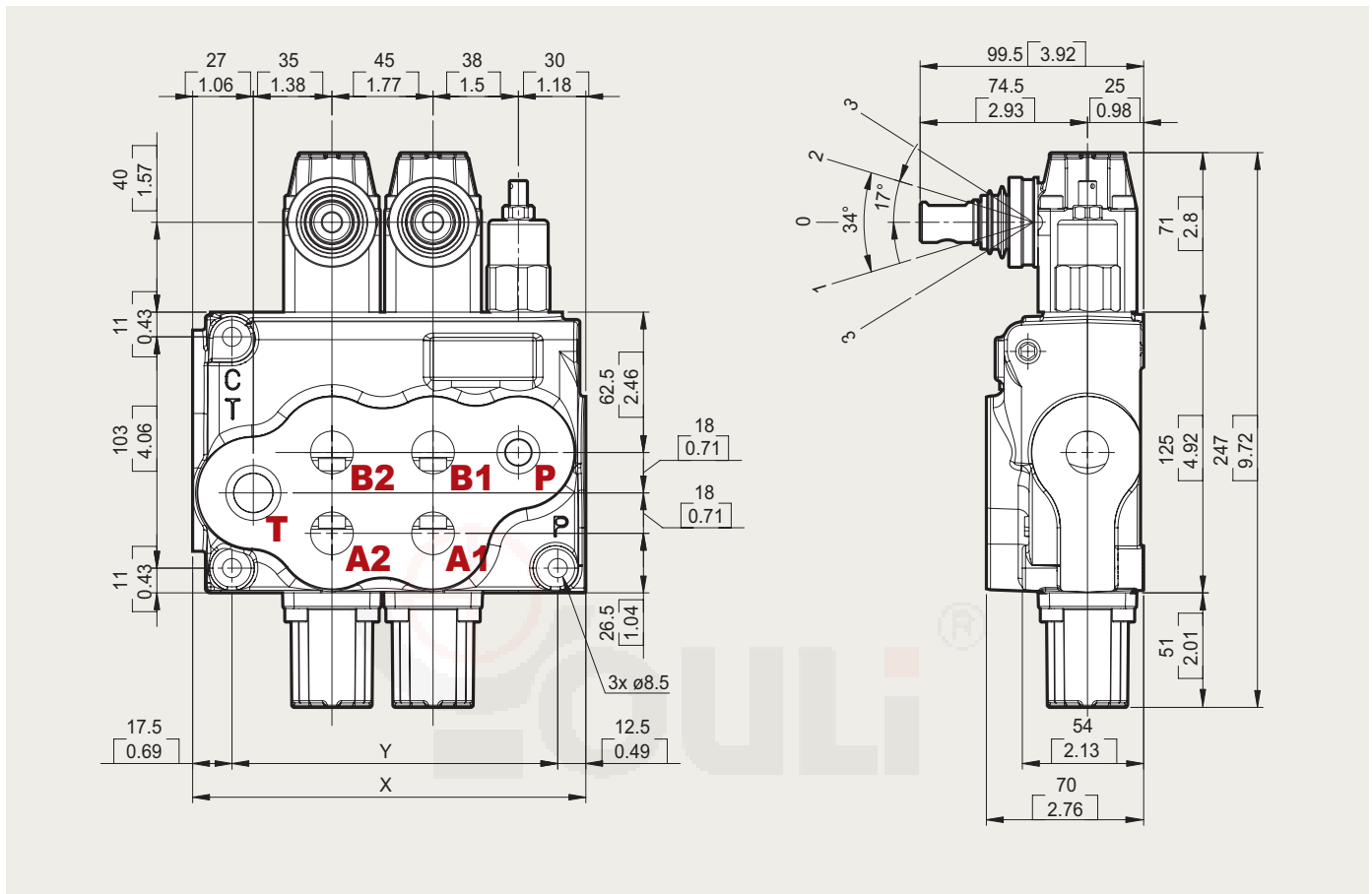


4: B Side Spool Positioners			
TYPE	CODE	DESCRIPTION	PAGE
8ER3+KE1S0	YLMB54401	1S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 24
8ER3+KE2S0	YLMB54402	2S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 24
8ER3+KE3S0	YLMB54403	3S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 24
8ER3+KE4S0	YLMB54404	4S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 24
8ER3+KE5S0	YLMB54405	5S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 24
8ER3+KE6S0	YLMB54406	6S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 24

5: A Side (optional)			
TYPE	CODE	DESCRIPTION	PAGE
L	YLMB55000	Standard lever box	P. 18
SLP	YLMB55001	Without lever box, with dust-proof plate	P. 18
LCB	YLMB55002	Joystick lever for 2 section operation	P. 19
TQ	YLMB55003	Flexible cable connection	P. 20

# MB-5 Dimensions

## Monoblock Directional Control Valves



### Standard threads

Ports	Inlet P	A and B	Outlet T and carry-over C
BSP	G1/2	G1/2	G3/4
UN-UNF	1" 1/16-12 UN (SAE 12)	7/8-14 UNF (SAE 10)	1" 1/16-12 UN (SAE 12)
METRIC	M18x1.5	M18x1.5	M22x1.5

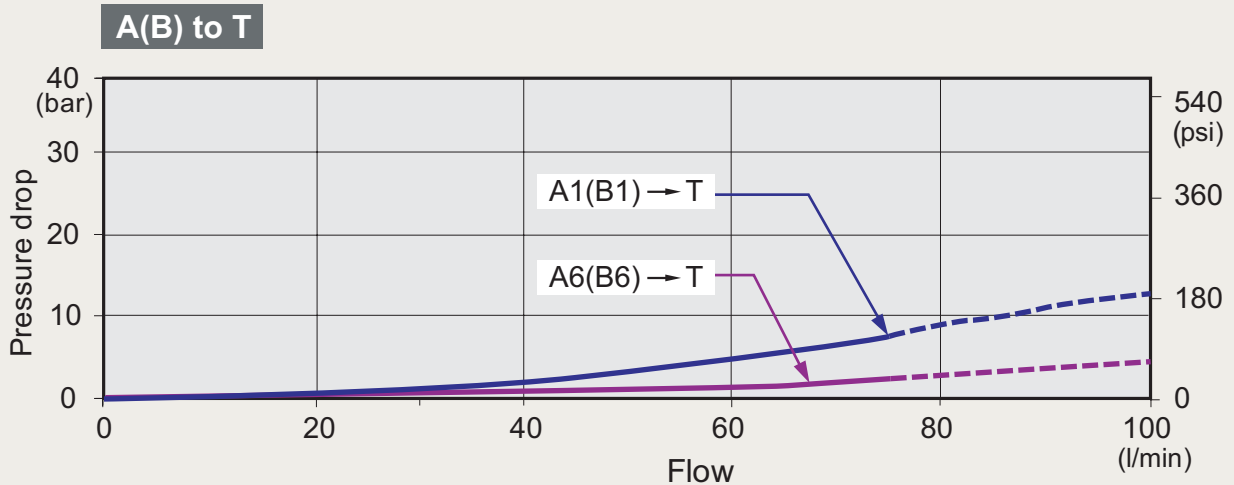
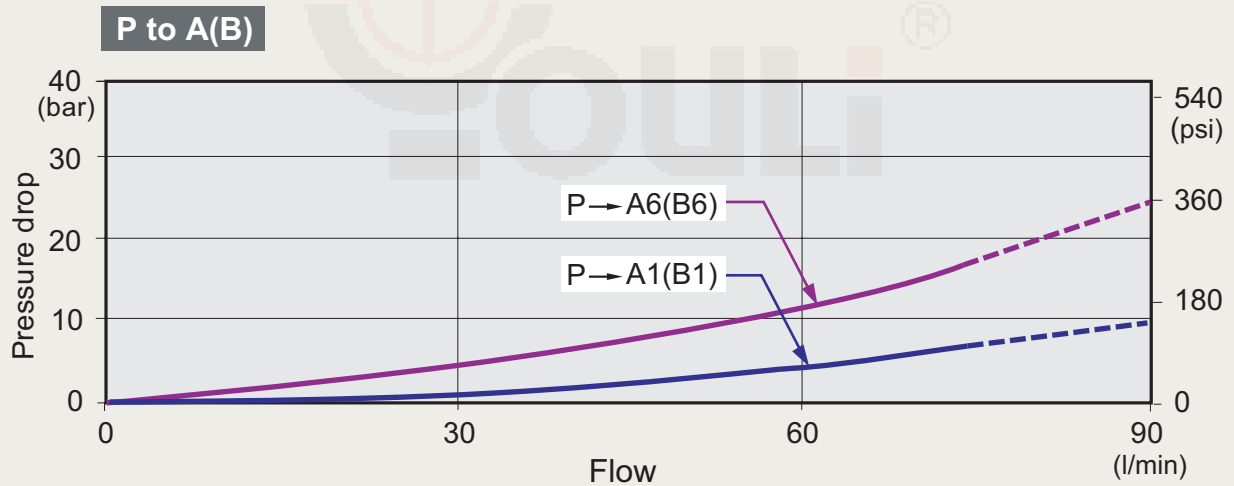
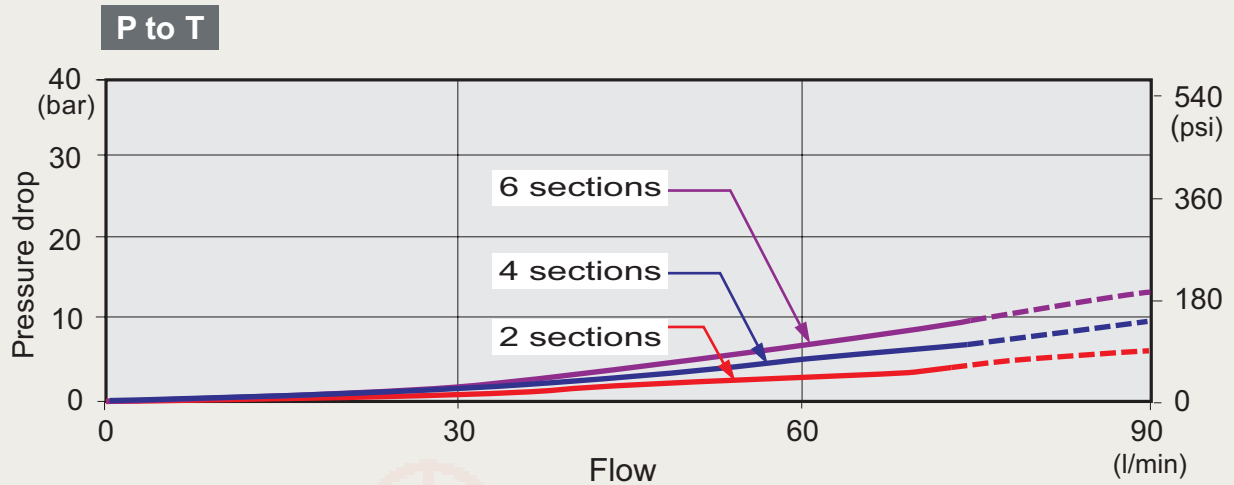
• G-3/8 : G3    G-1/2 : G4    G-3/4 : G6    G-1 : G8    G-1 1/4 : G10  
 • SAE 8: E8    SAE 10: E10    SAE 12: E12    SAE 16: E16    SAE 20: E20

### Standard dimensions

TYPE	X		Y	
	mm	in	mm	in
MB5 /1S	130	5.12	100	3.94
MB5 /2S	174.5	6.87	145	5.71
MB5 /3S	219.5	8.64	190	7.48
MB5 /4S	264.5	10.41	235	9.25
MB5 /5S	309.5	12.19	280	11.02
MB5 /6S	354.5	13.96	325	12.80

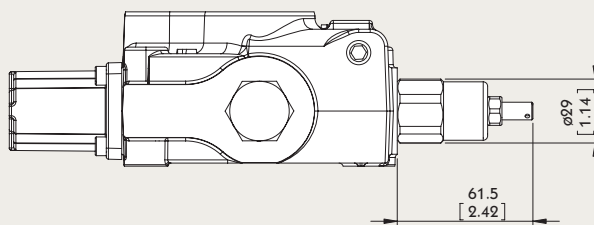
# MB-5 Performance curve chart

## Monoblock Directional Control Valves

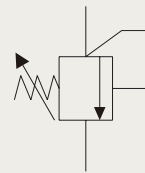


# MB-5 Inlet Relief (Optional) Monoblock Directional Control Valves

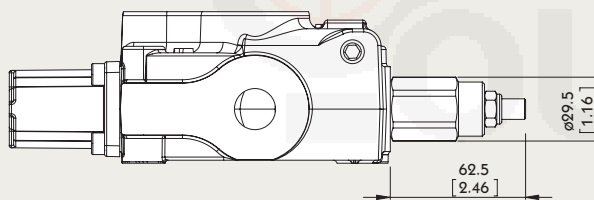
## Type AG



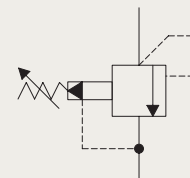
Direct pressure relief valve:



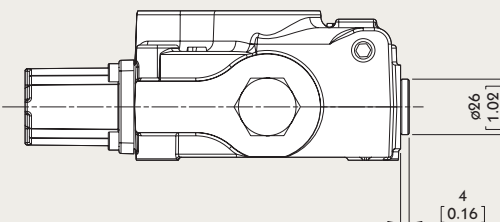
## Type XAG



Pilot operated pressure relief valve:



## Type SV



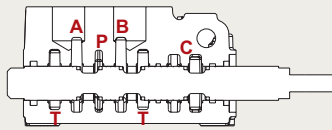
Relief valve blanking plug:



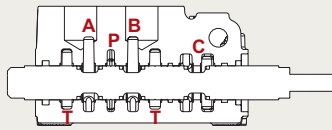
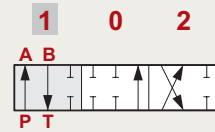
# MB-5 Spool Options

## Monoblock Directional Control Valves

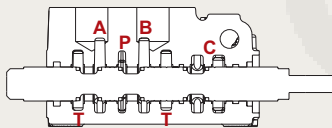
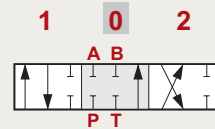
### TYPE 1



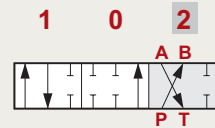
P → A  
B → T  
C closed



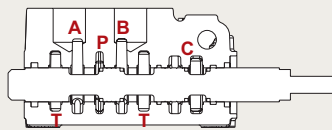
P & T & A & B closed  
C open



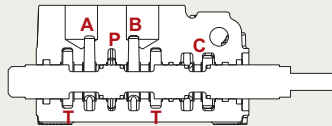
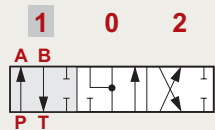
P → B  
A → T  
C closed



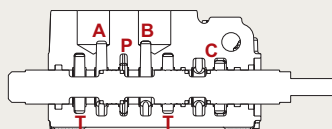
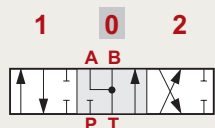
### TYPE 2



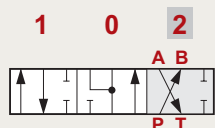
P → A  
B → T  
C closed



A & B → T  
P closed  
C open

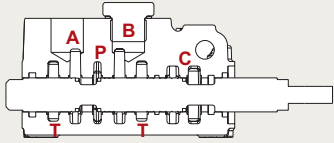
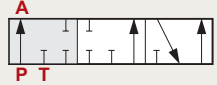
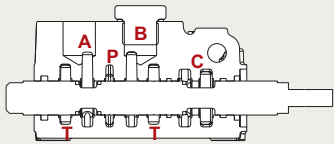
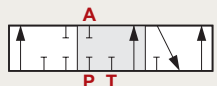
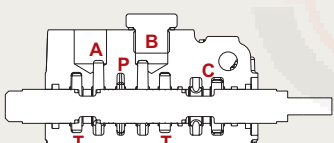
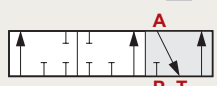
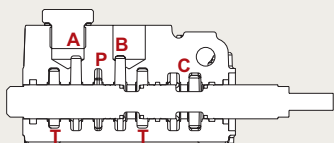
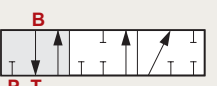
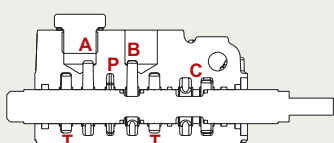

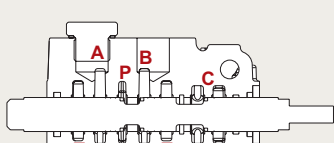
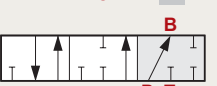


P → B  
A → T  
C closed



# MB-5 Spool Options

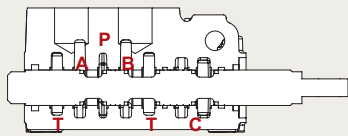
## Monoblock Directional Control Valves

TYPE 3		
	<p><b>P → A</b> T &amp; C closed</p>	<p>1 0 2    <b>"B" port plugged</b></p>
	<p><b>P &amp; A &amp; T closed</b> C open</p>	<p>1 0 2    <b>"B" port plugged</b></p>
	<p><b>A → T</b> P closed C open</p>	<p>1 0 2    <b>"B" port plugged</b></p>
TYPE 4		
	<p><b>B → T</b> P closed C open</p>	<p>1 0 2    <b>"A" port plugged</b></p>
	<p><b>P &amp; B &amp; T closed</b> C open</p>	<p>1 0 2    <b>"A" port plugged</b></p>
	<p><b>P → B</b> C &amp; T closed</p>	<p>1 0 2    <b>"A" port plugged</b></p>

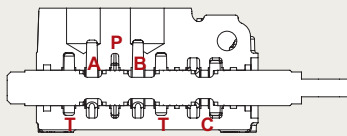
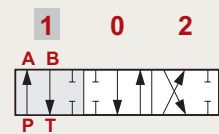
# MB-5 Spool Options

## Monoblock Directional Control Valves

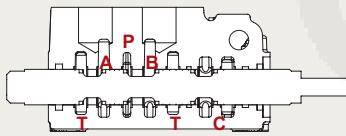
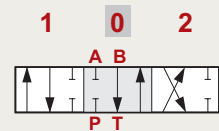
### TYPE 5



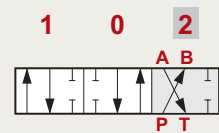
P → A  
B → T  
C closed



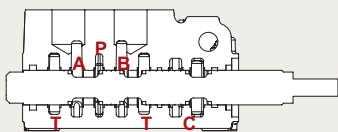
B → T  
P & A closed  
C open



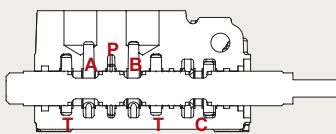
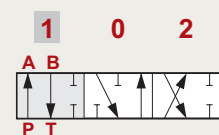
P → B  
A → T  
C closed



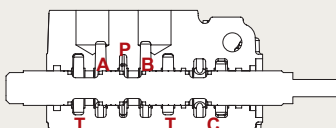
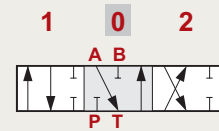
### TYPE 6



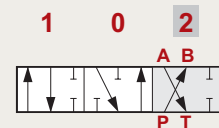
P → A  
B → T  
C closed



A → T  
P & B closed  
C open



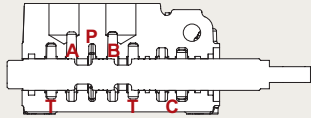
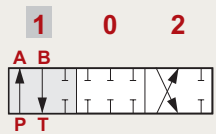
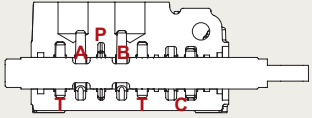
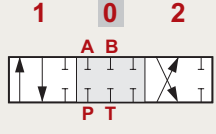
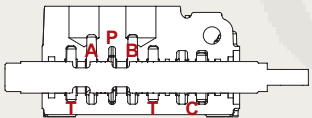
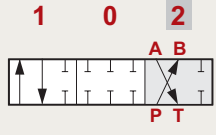
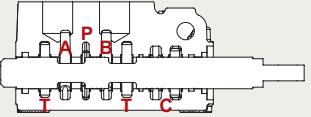
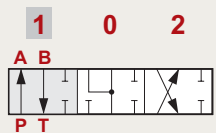
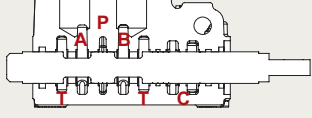
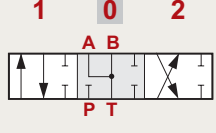
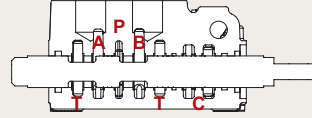
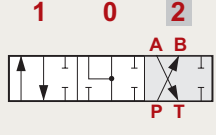
P → B  
A → T  
C closed





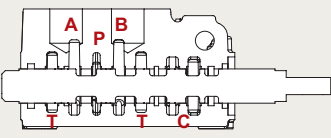
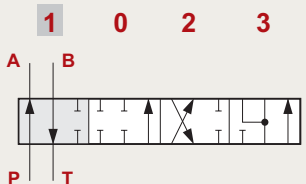
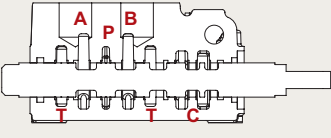
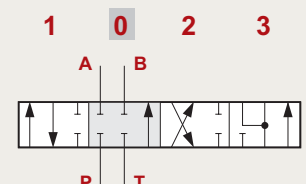
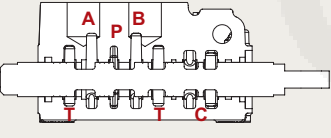
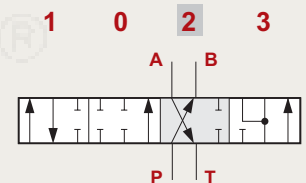
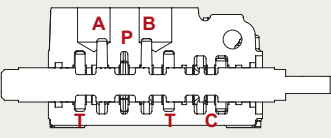
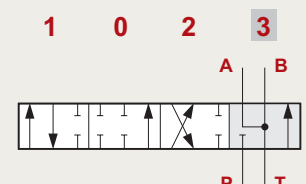
# MB-5 Spool Options

## Monoblock Directional Control Valves

TYPE 9		
	<p>P → A B → T C closed</p>	
	<p>P &amp; T &amp; A &amp; B closed C closed</p>	
	<p>P → B A → T C closed</p>	
TYPE 10		
	<p>P → A B → T C closed</p>	
	<p>A &amp; B → T P &amp; C closed</p>	
	<p>P → B A → T C closed</p>	

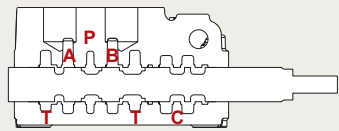
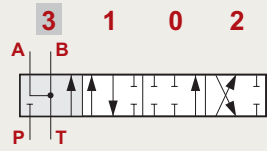
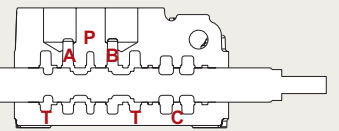
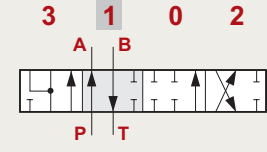
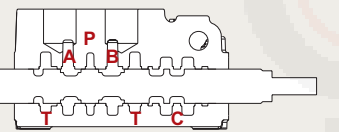
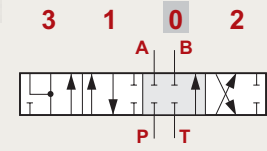
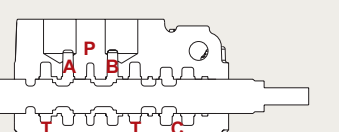
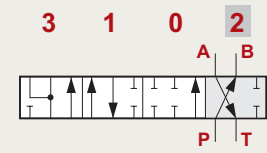
# MB-5 Spool Options

## Monoblock Directional Control Valves

TYPE 5DY	NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONER	
	<p>P → A</p> <p>B → T</p> <p>C closed</p>	<p>1 0 2 3</p> 
	<p>P &amp; T &amp; A &amp; B closed</p> <p>C open</p>	<p>1 0 2 3</p> 
	<p>P → B</p> <p>A → T</p> <p>C closed</p>	<p>1 0 2 3</p> 
	<p>A &amp; B → T</p> <p>P closed</p> <p>C open</p>	<p>1 0 2 3</p> 

# MB-5 Spool Options

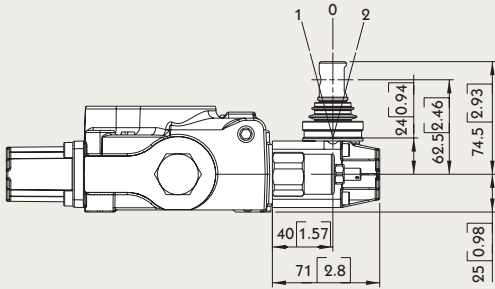
## Monoblock Directional Control Valves

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

# MB-5 A Side

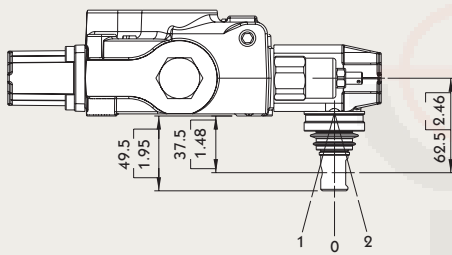
## Monoblock Directional Control Valves

### Type L



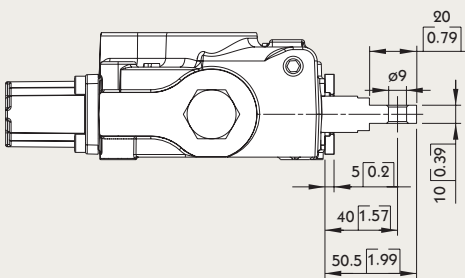
**Type L :**  
STANDART LEVER KIT

### Type R



**Type R :**  
STANDART LEVER KIT  
(ROTATED 180 DEGREE)

### Type SLP

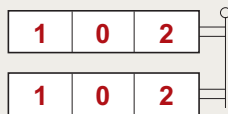
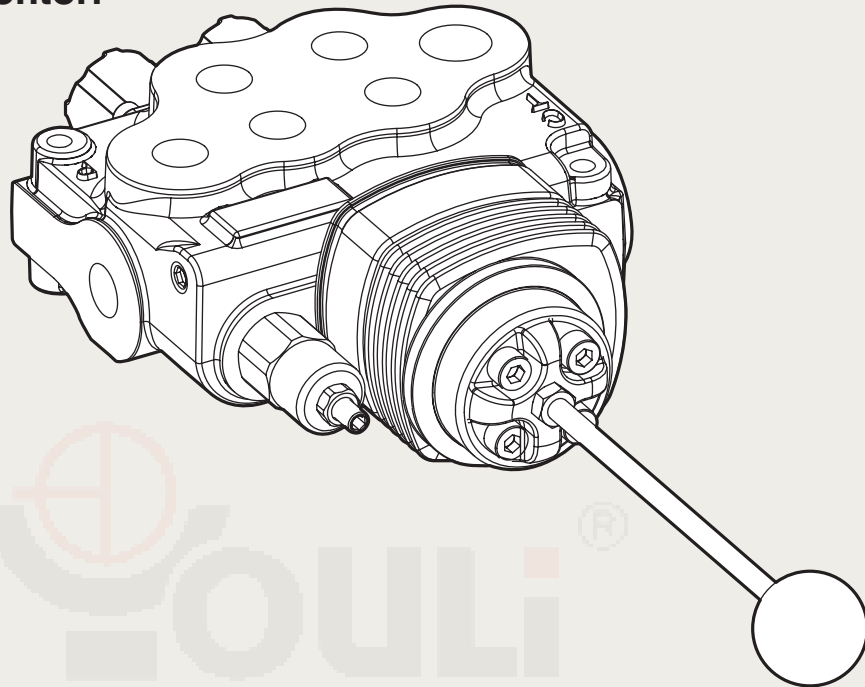


**Type SLP :**  
WITH DUST-PROOF PLATE

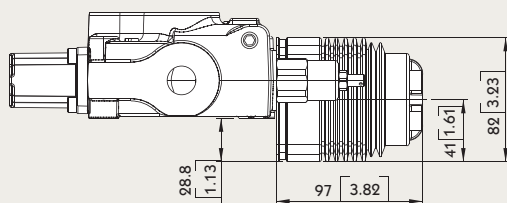
# MB-5 A Side

## Monoblock Directional Control Valves

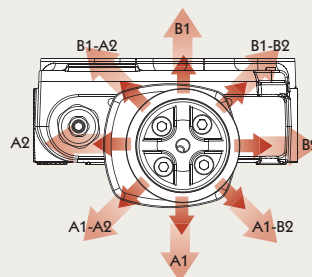
LCB: Joystick control



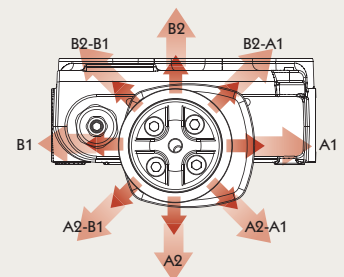
Type LCB



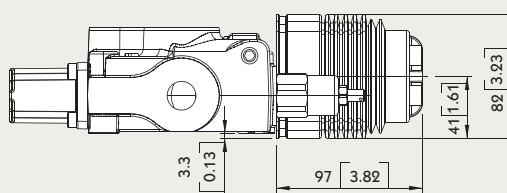
LCB1



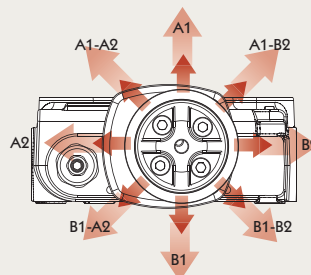
LCB2



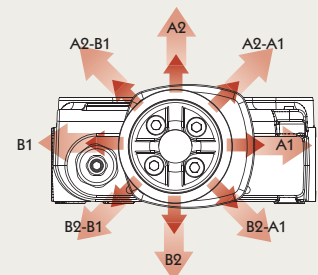
Type LCB



LCB3



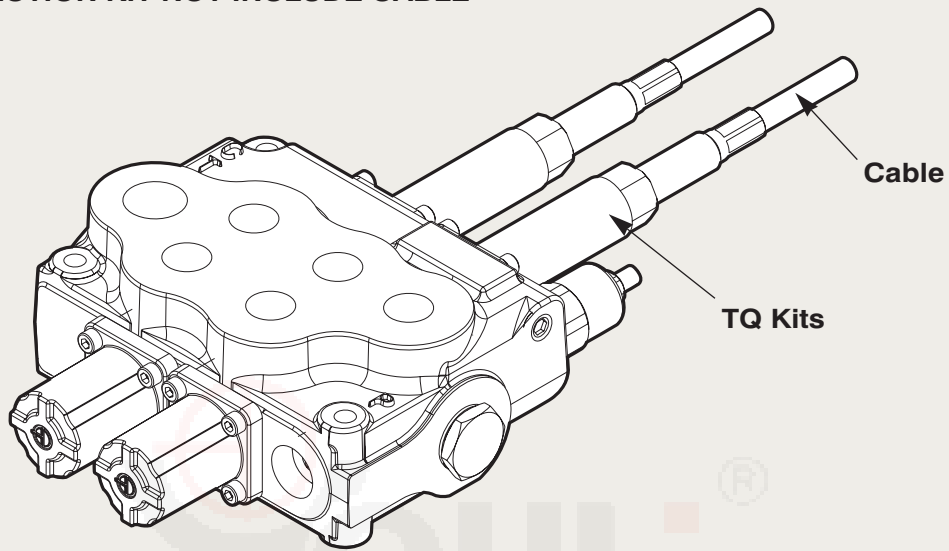
LCB4



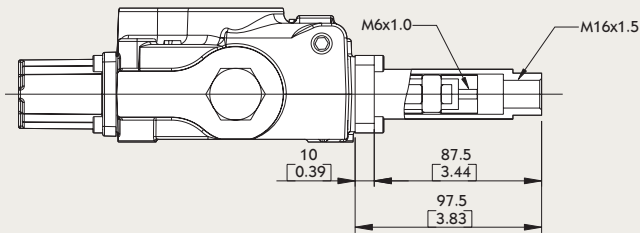
# MB-5 A Side

## Monoblock Directional Control Valves

Note : CONNECTION KIT NOT INCLUDE CABLE



### Type TQ

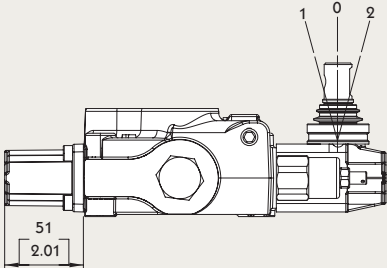



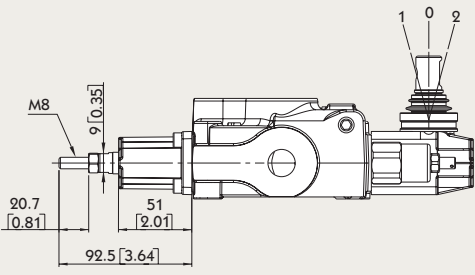



TQ Kit:



# MB-5 B Side

## Monoblock Directional Control Valves

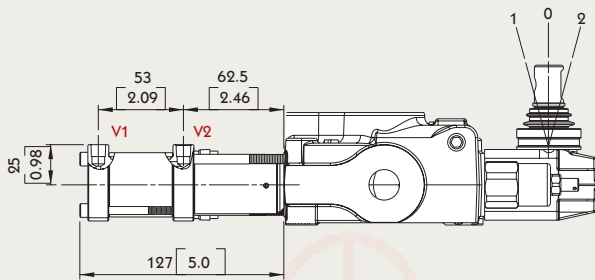
Type 6		
		<p><b>6-1 Kit:</b> DETENT IN POS. 1-0-2, WITHOUT SPRING CENTERED</p>
		<p><b>6-2 Kit:</b> 2 POSITIONS, DETENT IN POS. 0-2, WITHOUT SPRING CENTERED</p>
		<p><b>6-3 Kit:</b> 2 POSITIONS, DETENT IN POS. 1-0, WITHOUT SPRING CENTERED</p>
Type 8D2		
		<p><b>8D2 Kit:</b> WITH SPRING RETURN TO NEUTRAL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

# MB-5 B Side

## Monoblock Directional Control Valves

### Type 8P

V1 & V2: NPT 1/8 - 27



**Operating feature :**

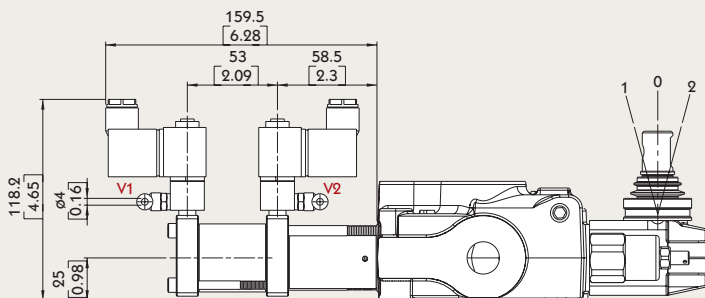
PILOT PRESSURE (MIN.): 6 BAR / 87 PSI

PILOT PRESSURE (MAX.): 12 BAR / 174 PSI

ON/OFF PNEUMATIC KIT



### Type 8EP3

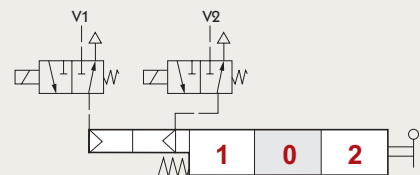


**Solenoid operating features :**

NOMINAL VOLTAGE: 24VDC

NOMINAL VOLTAGE TOLERANCE:  $\pm 10\%$

POWER RATING: 5W

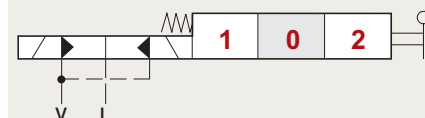
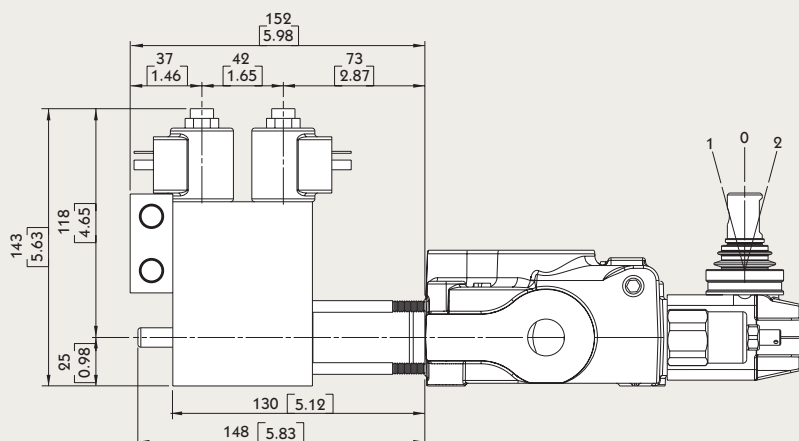
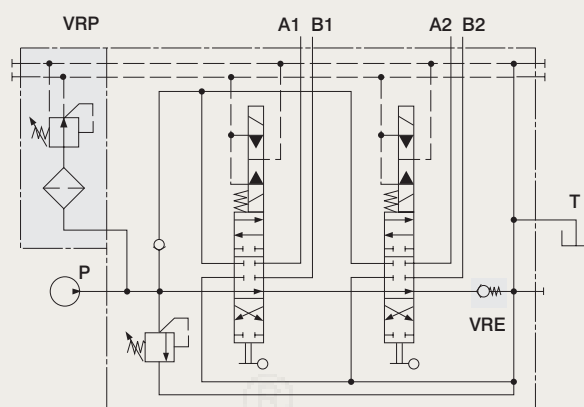
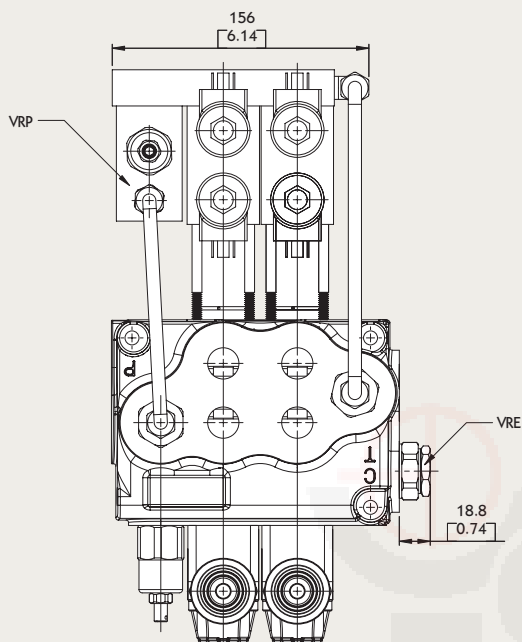




# MB-5 B Side

## 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 / 360PSI

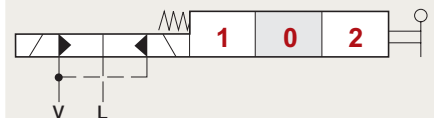
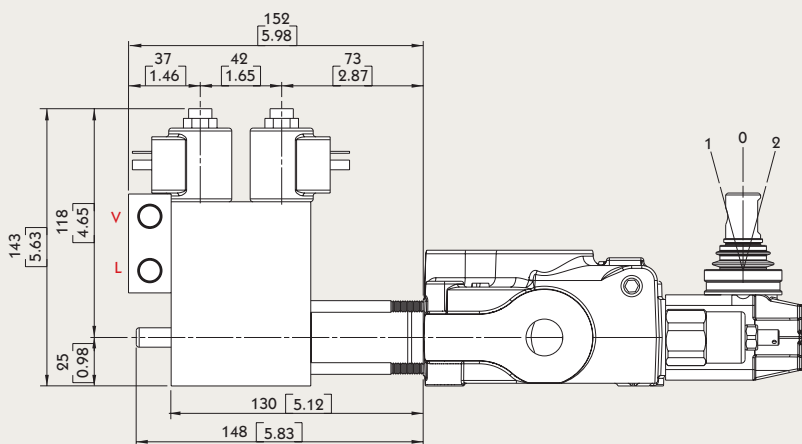
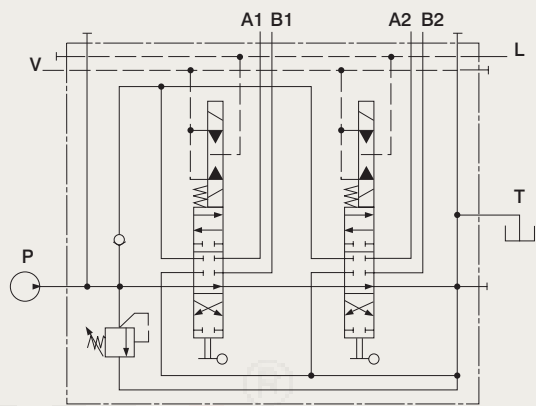
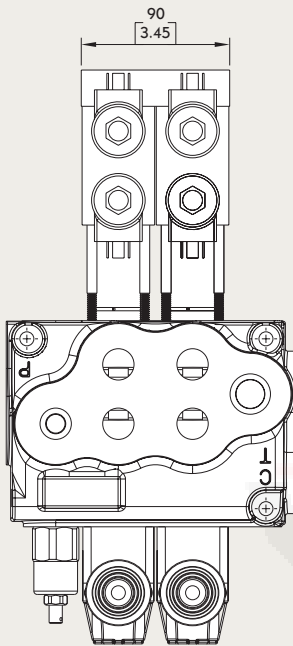
#### Coil features :

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

# MB-5 B Side

## Monoblock Directional Control Valves

### Type 8ER3



#### Operating features :

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

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

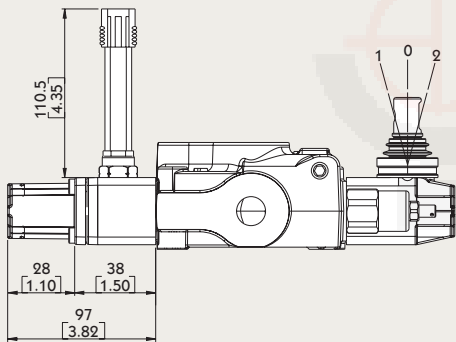
#### Coil features :

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

# MB-5 B Side

## Monoblock Directional Control Valves

### Type 8MG



#### MICROSWITCH

#### Operating features :

MECHANICAL LIFE: 5X10<sup>6</sup> OPERATIONS

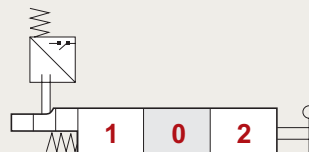
ELECTRICAL LIFE (RESISTIVE LOAD):

- 10<sup>6</sup> OPERATIONS - 7A / 13.5 VDC
- 5x10<sup>6</sup> OPERATIONS - 10A / 12 VDC
- 5x10<sup>6</sup> OPERATIONS - 3A / 28 VDC



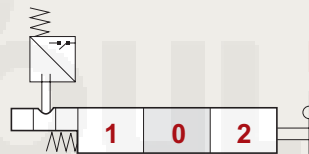
#### 8MG1 Kit:

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



#### 8MG2 Kit:

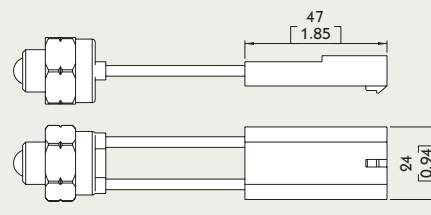
MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 2



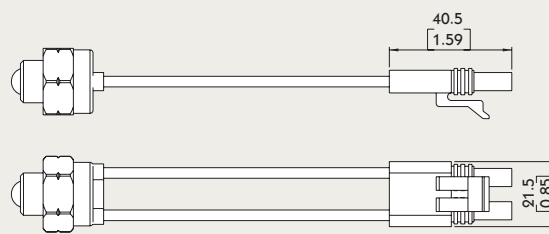
#### 8MG3 Kit:

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

#### With NO contact (female connector with male end)



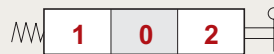
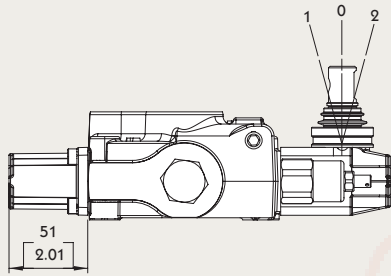
#### With NC contact (male connector with female end)



# MB-5 B Side

## Monoblock Directional Control Valves

### Type 8



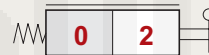
#### 8 Kit:

SPRING RETURN TO NEUTRAL POSITION.



#### 8-1 Kit:

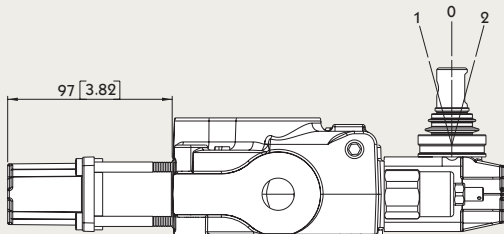
SPRING RETURN TO NEUTRAL POSITION.  
(2 POSITIONS)



#### 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:

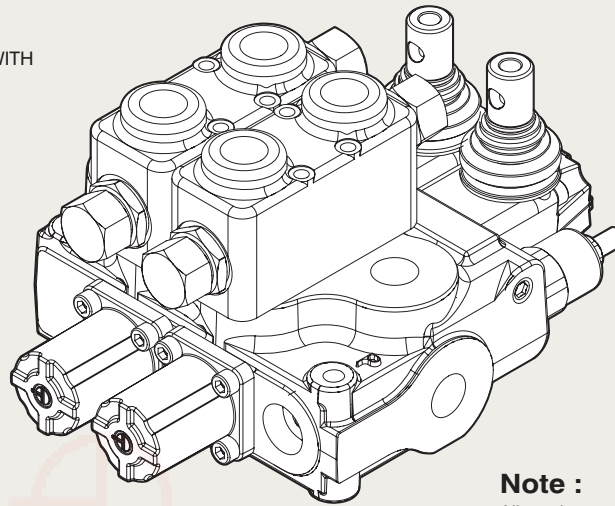
DETENT IN POS. 1 WITH SPRING CENTERED

# MB-5 Service and auxiliary valves

## Monoblock Directional Control Valves

### Anti-shock valves

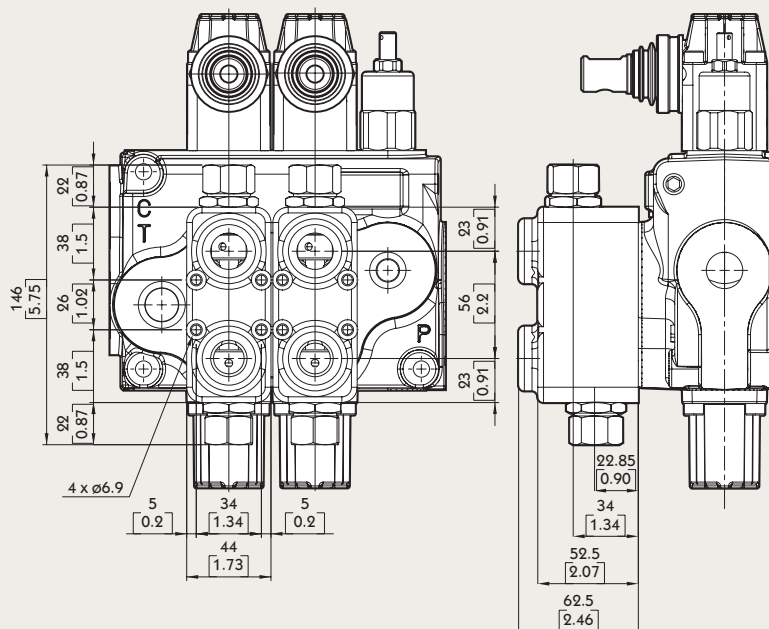
(CROSS RETURN TYPE, SUPPLIED WITH MOUNTING BLOCK)



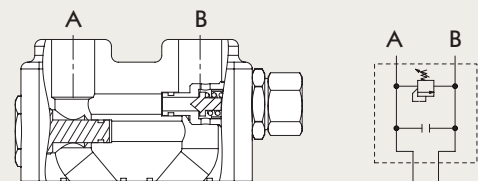
**Note :**

All service and auxiliary valves need special body

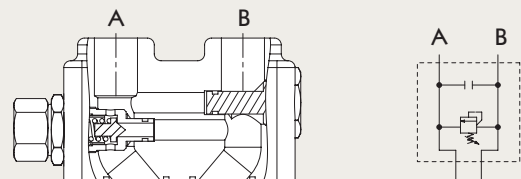
### Type P



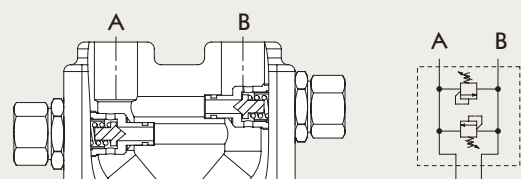
**P1 Kit:** YLMB56001, Block with valve on port A



**P2 Kit:** YLMB56002, Block with valve on port B



**P3 Kit:** YLMB56003, Block with valve on port A and B

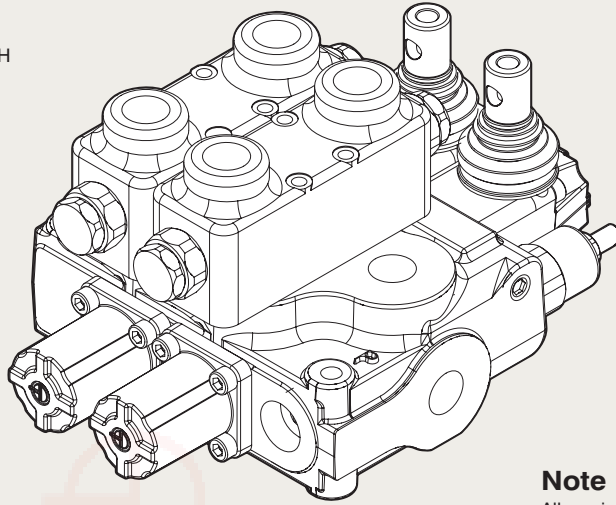


# MB-5 Service and auxiliary valves

## Monoblock Directional Control Valves

### Pilot check valves

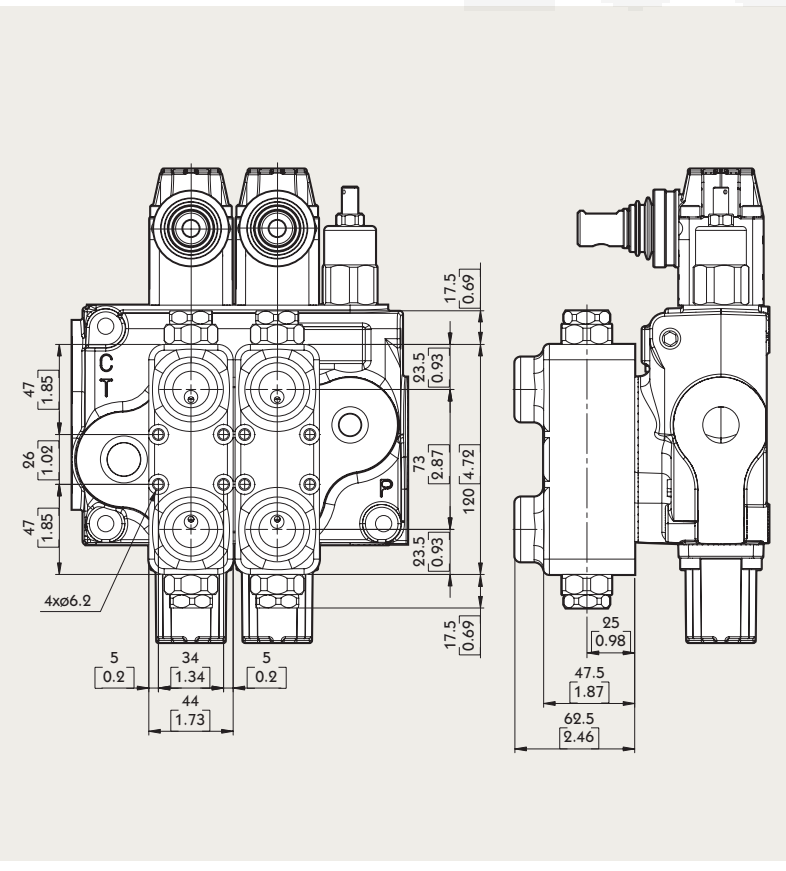
(WITH PRE-OPENING, SUPPLIED WITH MOUNTING BLOCK)



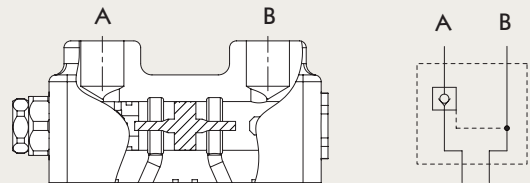
**Note :**

All service and auxiliary valves need special body

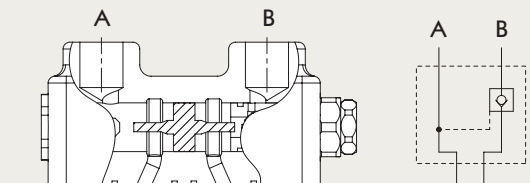
### Type BPS Pilot check valves (With Pre-opening, supplied with mounting block)



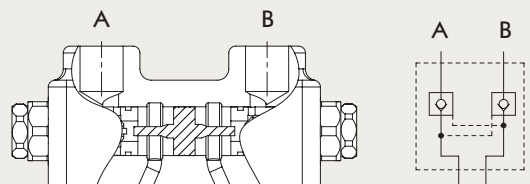
**BPS1 Kit:** YLMB57001, Block with valve on port A



**BPS2 Kit:** YLMB57002, Block with valve on port B



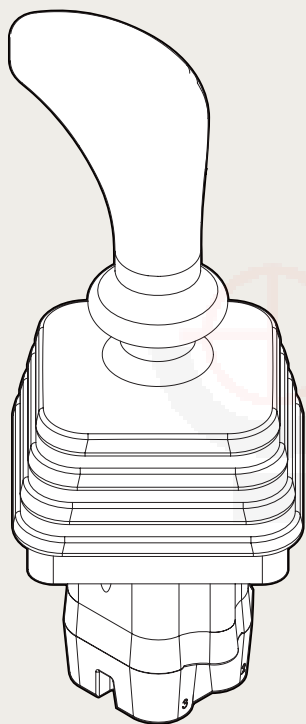
**BPS3 Kit:** YLMB57003, Block with valve on port A and B



# MB-5 Accessories

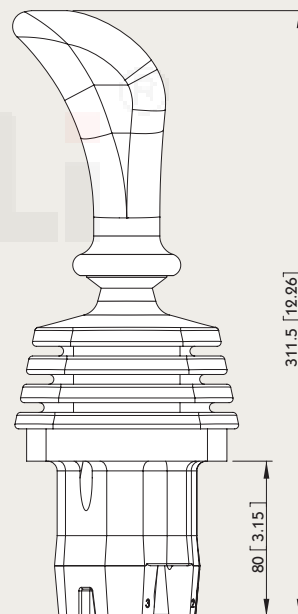
## Monoblock Directional Control Valves

### Type JHP-2

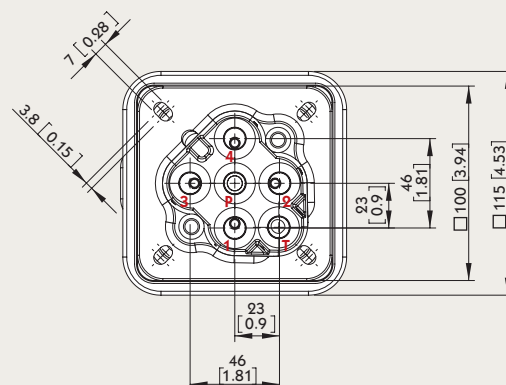
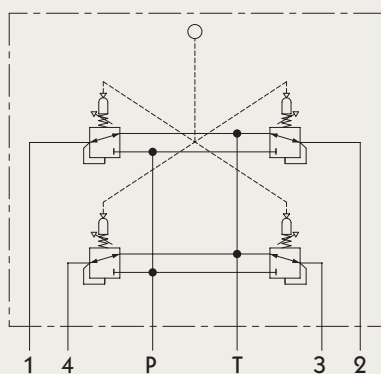


#### Specifications:

- This data sheet shows technical spec. with mineral oil of 46 mm<sup>2</sup>/s (cSt) viscosity at 40 °C (104 °F)
- Flow : 5 ~ 20 LPM
- Feeding pressure : 30 ~ 100 bar
- Max. backpressure : 3 bar
- Internal leakage at 30 bar : 10 ~ 18 cm<sup>3</sup>/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80 °C
- Ambient temperature : - 40 ~ 60 °C



#### HYDRAULIC SCHEME:



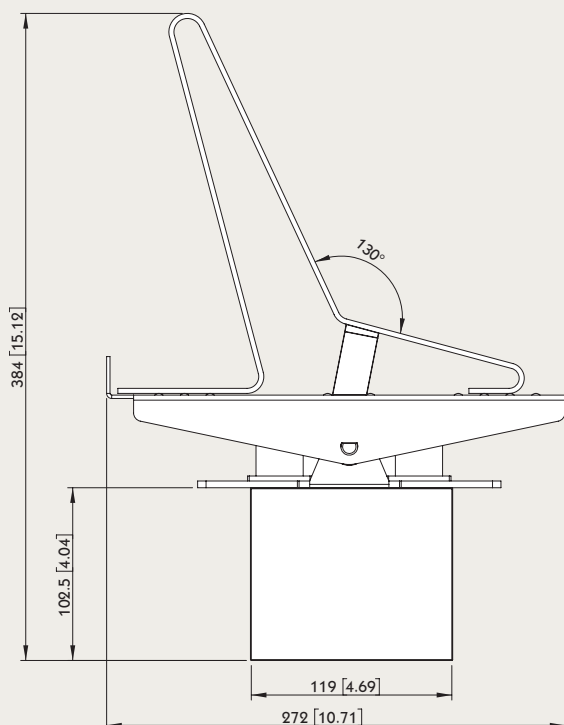
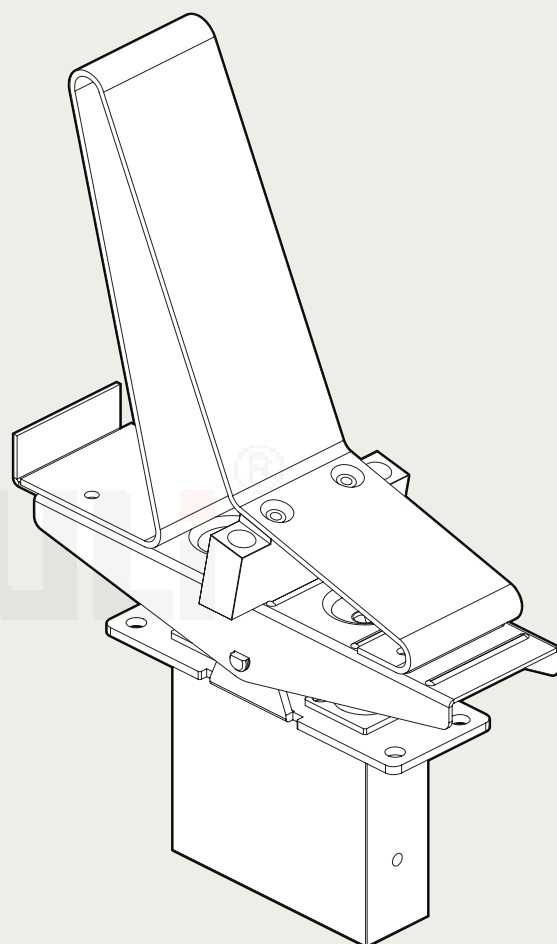
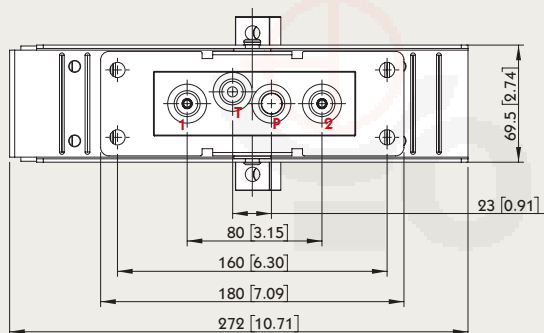
# MB-5 Accessories

## Monoblock Directional Control Valves

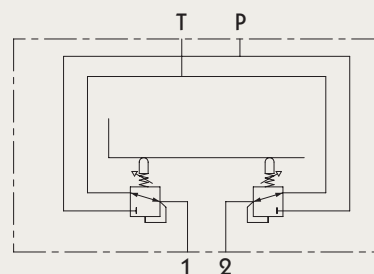
### Type PHP-1

#### Specifications:

- This data sheet shows technical spec. with mineral oil of 46 mm<sup>2</sup>/s (cSt) viscosity at 40 °C (104 °F)
- Flow : 5 ~ 20 LPM
- Feeding pressure : 30 ~ 100 bar
- Max. backpressure : 3 bar
- Internal leakage at 30 bar : 10 ~ 18 cm<sup>3</sup>/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80 °C
- Ambient temperature : - 40 ~ 60 °C



#### HYDRAULIC SCHEME:



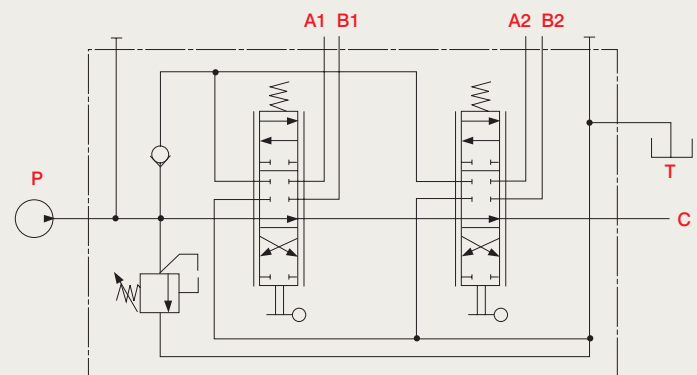
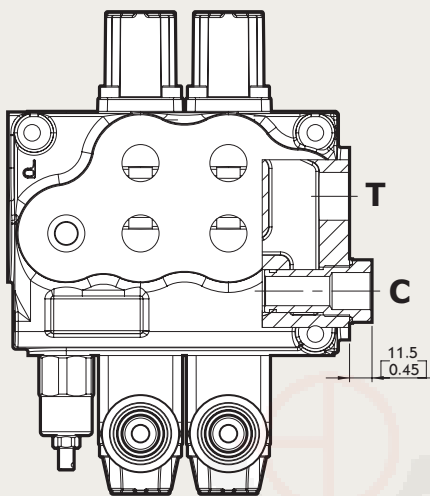


# MB-5 Outlet

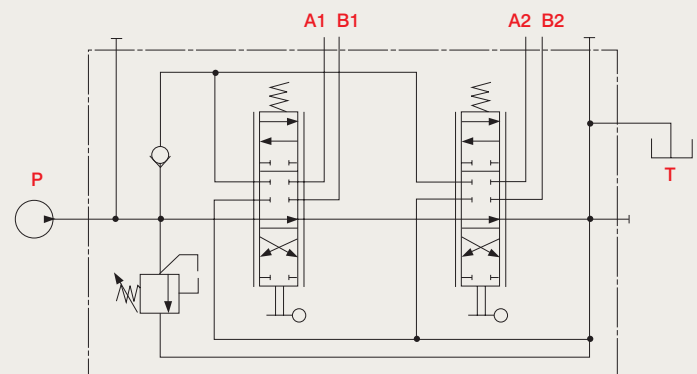
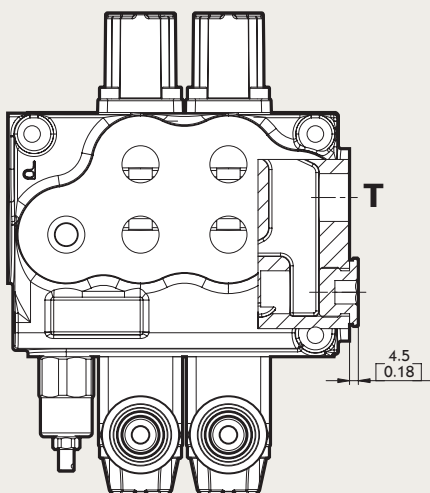
## Monoblock Directional Control Valves

### M8

Power Beyond Conversion plug  
(Closed center plug)



### M3



# Hydraulic & Offshore SUPPLIES



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