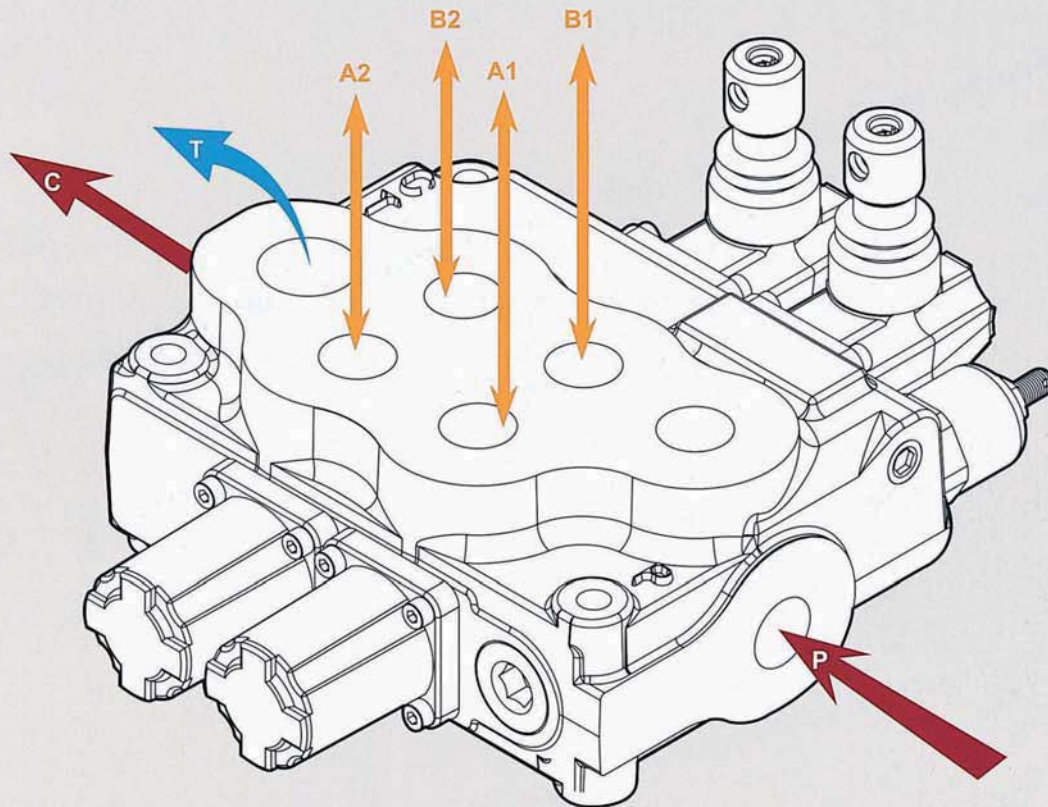


# MB-5

## Monoblock Directional Control Valves

MB-5



### MB-5 Specifications

| Nominal flow rate            |                            | 80 l/min                         | 21 US gpm            |
|------------------------------|----------------------------|----------------------------------|----------------------|
| Operating pressure (maximum) | parallel or tandem circuit | 315 bar                          | 4600 psi             |
|                              | series circuit             | 250 bar                          | 3600 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.

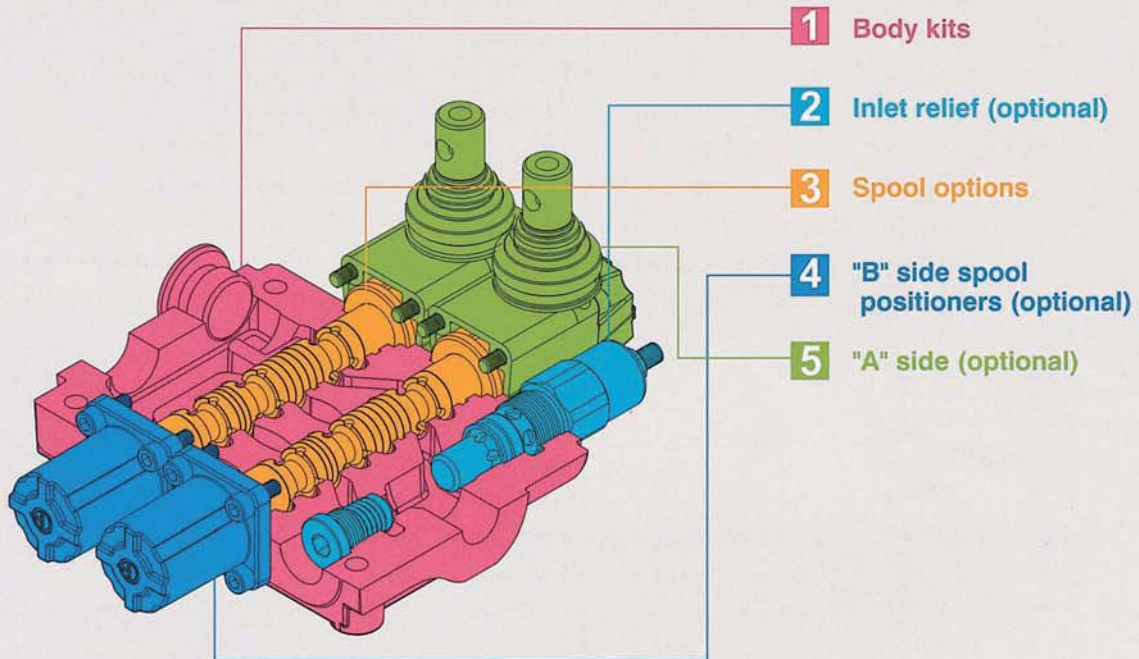
# MB-5

## Monoblock Directional Control Valves

MB-5

MB-5 / **2S** - **3** / **1 8 L** / **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. 87 |
| AG-2                       | YLMB52002 | Direct pressure relief valve Range 80 to 160 bar/ 1150 to 2300 psi, standard setting 125 bar/ 1800 psi        | P. 87 |
| AG-3                       | YLMB52003 | Direct pressure relief valve Range 125 to 250 bar/ 1800 to 3600 psi, standard setting 175 bar/ 2500 psi       | P. 87 |
| AG-4                       | YLMB52004 | Direct pressure relief valve Range 200 to 315 bar/ 2900 to 4600 psi, standard setting 220 bar/ 3200 psi       | P. 87 |
| SV                         | YLMB52100 | Relief valve blanking plug  | P. 87 |



# MB-5

## Monoblock Directional Control Valves

MB-5

| 3: Spool Options |           |  |       |
|------------------|-----------|--|-------|
| TYPE             | CODE      | DESCRIPTION  | PAGE  |
| 1                | YLMB53001 | Double acting, 3 positions, with A, B closed in neutral position   | P. 88 |
| 2                | YLMB53002 | Double acting, 3 positions, with A, B open to Tank in neutral position                                   | P. 88 |
| 3                | YLMB53003 | Single acting on A closed in neutral position, 3 positions, B plugged                                    | P. 89 |
| 4                | YLMB53004 | Single acting on B closed in neutral position, 3 positions, A plugged                                    | P. 89 |
| 5                | YLMB53005 | Double acting, 3 positions, with B open to Tank in neutral position                                      | P. 90 |
| 6                | YLMB53006 | Double acting, 3 positions, with A open to Tank in neutral position                                      | P. 90 |
| 9                | YLMB53009 | Double acting, 3 positions, with P, T, A, B closed in neutral position (Closed center)                   | P. 91 |
| 10               | YLMB53010 | Double acting, 3 positions, with A, B open to Tank and P, T closed in neutral position (Closed center)   | P. 91 |
| 5DY              | YLMB53052 | Double acting, 4 positions, floating circuit in 4th position with A,B open to Tank by pulling the lever  | P. 92 |
| 5PY              | YLMB53051 | Double acting, 4 positions, floating circuit in 4th position with A, B open to Tank by pushing the lever | P. 93 |

| 4: B Side Spool Positioners |            |   |        |
|-----------------------------|------------|---|--------|
| TYPE                        | CODE       | DESCRIPTION   | PAGE   |
| 6-1                         | YLMB54061  | Detent in pos. 1-0-2, without spring centered   | P. 97  |
| 6-2                         | YLMB54062  | 2 positions, detent in pos. 0-2, without spring centered  | P. 97  |
| 6-3                         | YLMB54063  | 2 positions, detent in pos. 1-0, without spring centered  | P. 97  |
| 8D2                         | YLMB54082  | With spring return to neutral position and pin with M8 male thread for dual control               | P. 97  |
| 8EP3                        | YLMB54300  | ON/OFF Electro-Pneumatic actuator   | P. 98  |
| 8P                          | YLMB54080  | ON/OFF Pneumatic actuator   | P. 98  |
| 8MG1 (NO)                   | YLMB54801  | Microswitch kit operated in pos. 1 (Normally Open)  | P. 101 |
| 8MG2 (NO)                   | YLMB54802  | Microswitch kit operated in pos. 2 (Normally Open)  | P. 101 |
| 8MG3 (NO)                   | YLMB54803  | Microswitch kit operated in pos. 1&2 (Normally Open)  | P. 101 |
| MG (NO)                     | YLMB54804  | Microswitch with NO terminal  | P. 101 |
| 8MG1 (NC)                   | YLMB548011 | Microswitch kit operated in pos. 1 (Normally Closed)  | P. 101 |
| 8MG2 (NC)                   | YLMB548021 | Microswitch kit operated in pos. 2 (Normally Closed)  | P. 101 |
| 8MG3 (NC)                   | YLMB548031 | Microswitch kit operated in pos. 1&2 (Normally Closed)  | P. 101 |
| MG (NC)                     | YLMB548041 | Microswitch with NC terminal  | P. 101 |
| 8                           | YLMB54008  | With spring return to neutral position  | P. 102 |
| 8-1                         | YLMB54810  | 2 positions, with spring centered from pos. 1   | P. 102 |
| 8-2                         | YLMB54820  | 2 positions, with spring centered from pos. 2   | P. 102 |
| 9-1                         | YLMB54091  | Detent in pos. 1, 2 with spring centered  | P. 102 |
| 9-2                         | YLMB54092  | Detent in pos. 2 with spring centered   | P. 102 |
| 9-3                         | YLMB54093  | Detent in pos. 1 with spring centered   | P. 102 |
| 8ED3+RV-KE1R3               | YLMB54201  | 1S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) | P. 99  |
| 8ED3+RV-KE2R3               | YLMB54202  | 2S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) | P. 99  |
| 8ED3+RV-KE3R3               | YLMB54203  | 3S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) | P. 99  |
| 8ED3+RV-KE4R3               | YLMB54204  | 4S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) | P. 99  |
| 8ED3+RV-KE5R3               | YLMB54205  | 5S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) | P. 99  |
| 8ED3+RV-KE6R3               | YLMB54206  | 6S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) | P. 99  |

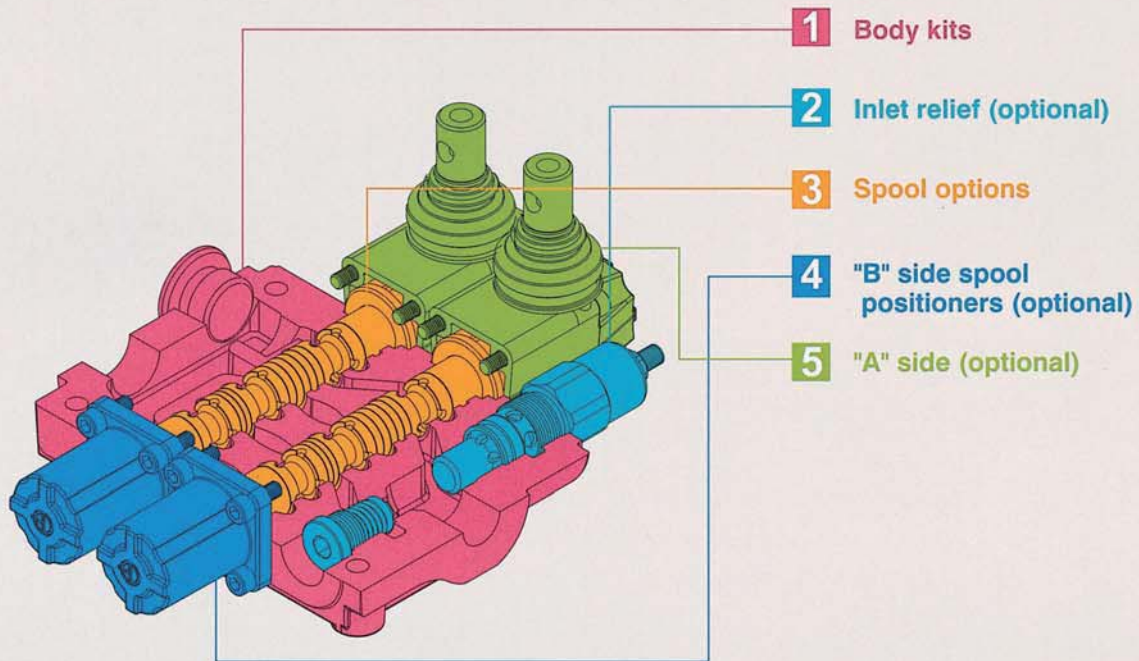
# MB-5

## Monoblock Directional Control Valves

MB-5

MB-5 / **2S** - **3** / **1 8 L** / 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. 100 |
| 8ER3+KE2S0                  | YLMB54402 | 2S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain | P. 100 |
| 8ER3+KE3S0                  | YLMB54403 | 3S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain | P. 100 |
| 8ER3+KE4S0                  | YLMB54404 | 4S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain | P. 100 |
| 8ER3+KE5S0                  | YLMB54405 | 5S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain | P. 100 |
| 8ER3+KE6S0                  | YLMB54406 | 6S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain | P. 100 |

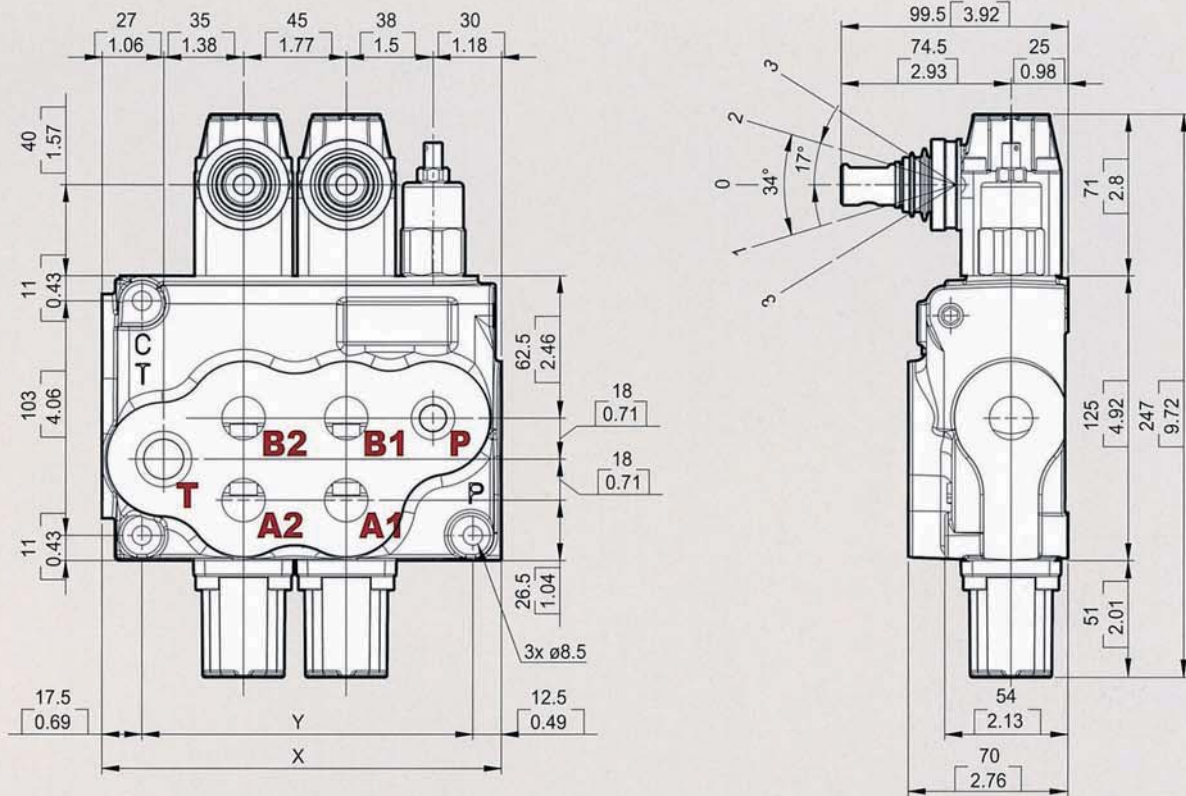
| 5: A Side (optional) |           |  |       |
|----------------------|-----------|--|-------|
| TYPE                 | CODE      | DESCRIPTION                              | PAGE  |
| L                    | YLMB55000 | Standard lever box                       | P. 94 |
| SLP                  | YLMB55001 | Without lever box, with dust-proof plate | P. 94 |
| LCB                  | YLMB55002 | Joystick lever for 2 section operation   | P. 95 |
| TQ                   | YLMB55003 | Flexible cable connection                | P. 96 |



# MB-5 Dimensions

## Monoblock Directional Control Valves

MB-5



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

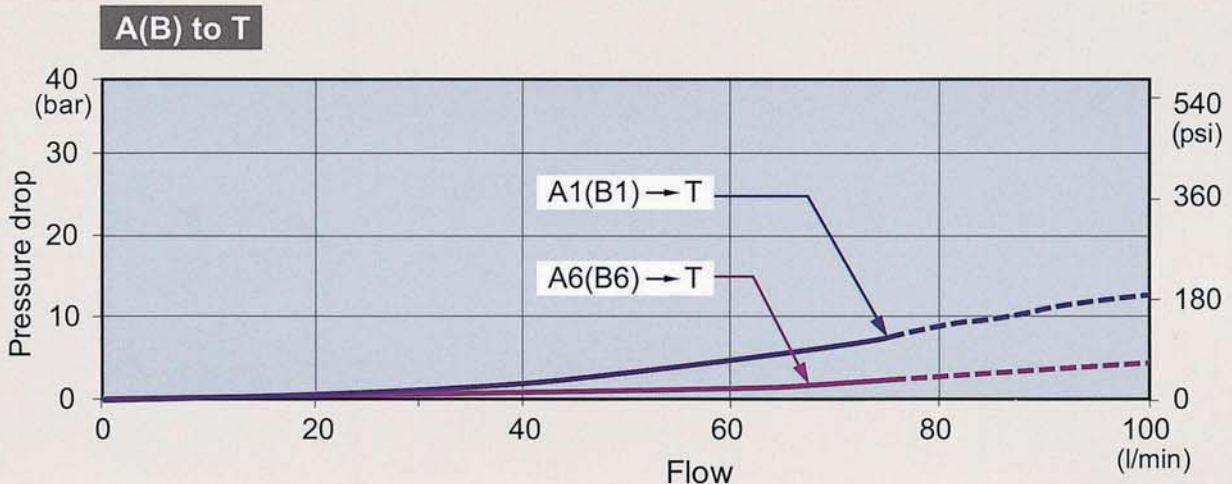
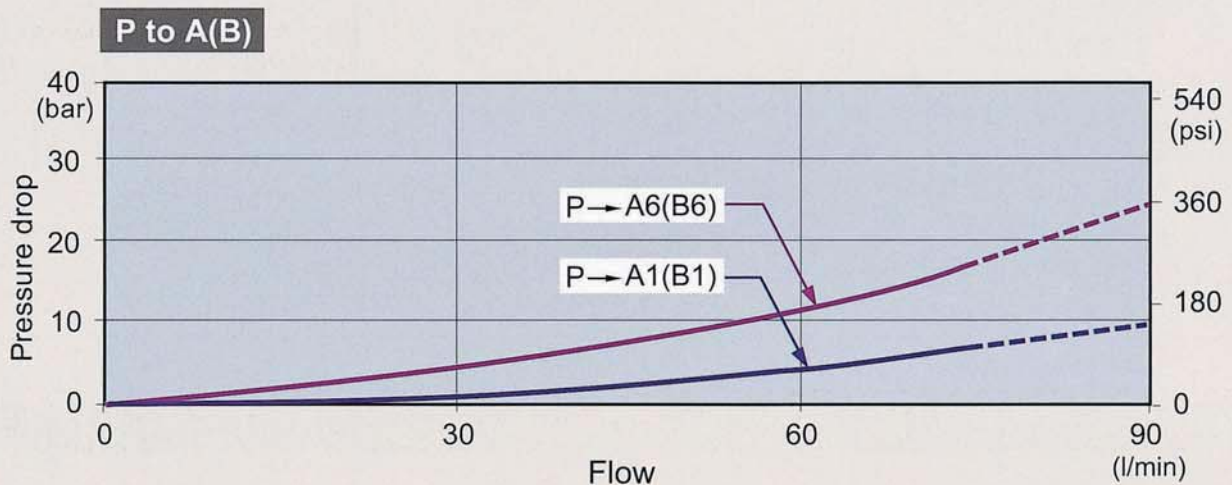
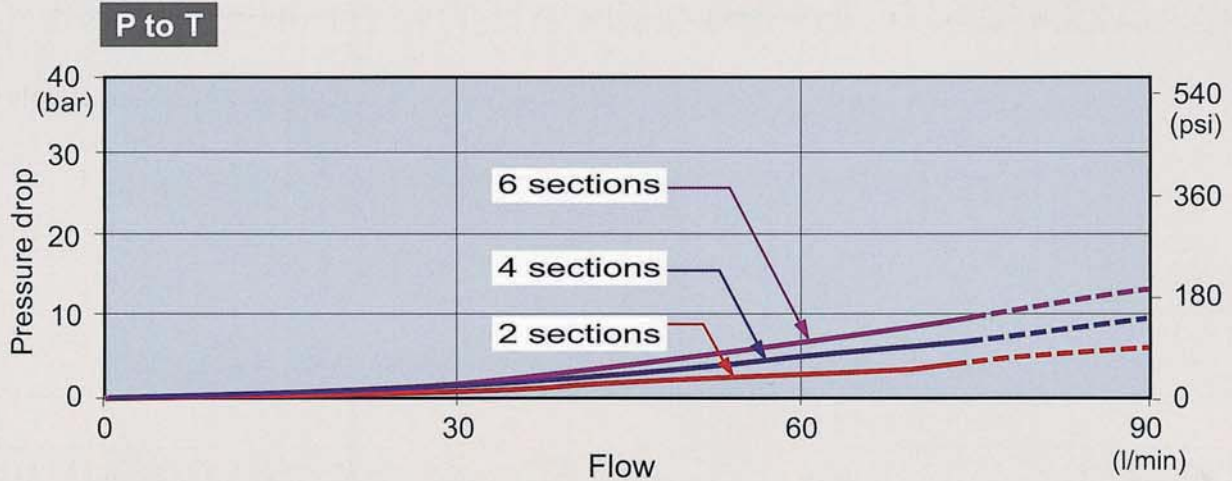
### Standard dimensions

| TYPE    | X     |       | Y   |       |
|---------|-------|-------|-----|-------|
|         | mm    | in    | mm  | in    |
| 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

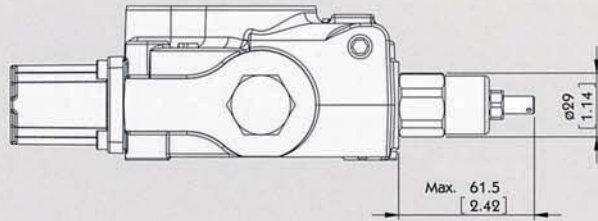
MB-5



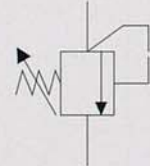
# MB-5 Inlet Relief (Optional) Monoblock Directional Control Valves

MB-5

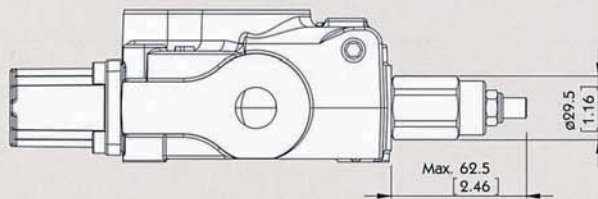
## Type AG



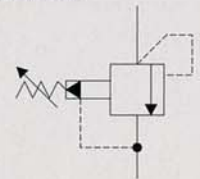
Direct pressure relief valve:



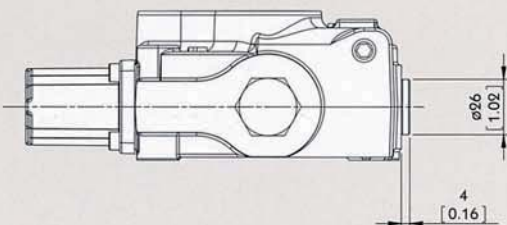
## Type XAG



Pilot operated pressure relief valve:



## Type SV



Relief valve blanking plug:

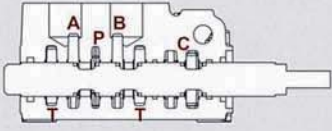
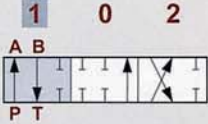
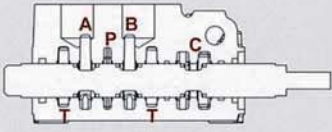
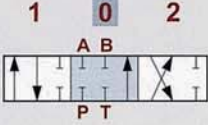
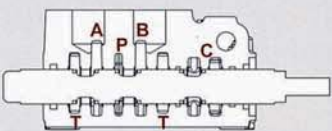
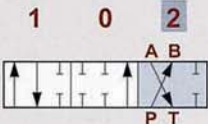
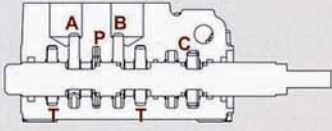
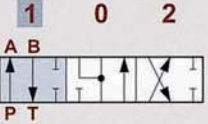
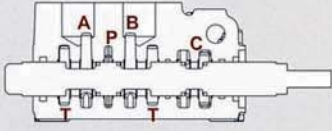
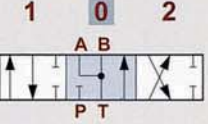
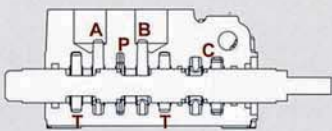
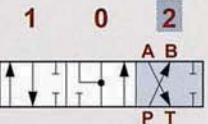




# MB-5 Spool Options

## Monoblock Directional Control Valves

MB-5

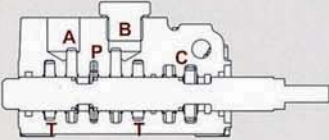
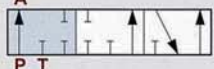
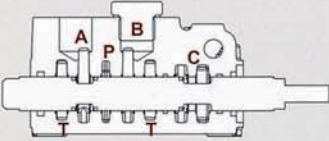
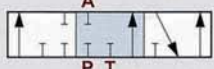
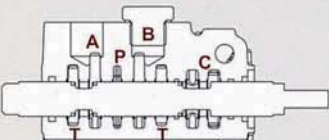
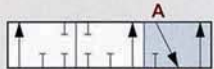
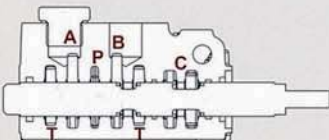
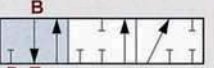
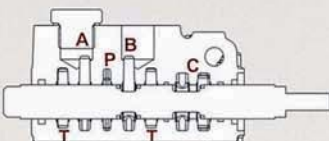
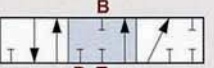
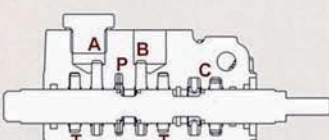

| TYPE 1  |   |   |
|---|---|---|
|    | <p>P → A</p> <p>B → T</p> <p>C closed</p>             |    |
|    | <p>P &amp; T &amp; A &amp; B closed</p> <p>C open</p> |    |
|   | <p>P → B</p> <p>A → T</p> <p>C closed</p>             |  |
| TYPE 2  |   |   |
|  | <p>P → A</p> <p>B → T</p> <p>C closed</p>             |  |
|  | <p>A &amp; B → T</p> <p>P closed</p> <p>C open</p>    |  |
|  | <p>P → B</p> <p>A → T</p> <p>C closed</p>             |  |



# MB-5 Spool Options

## Monoblock Directional Control Valves

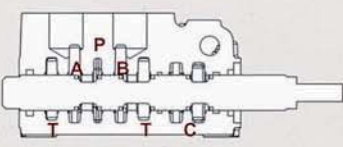
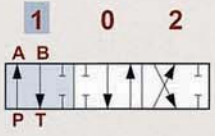
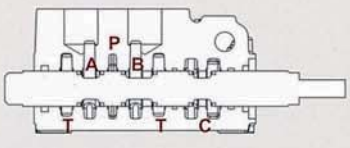
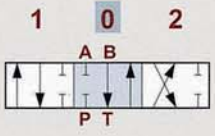
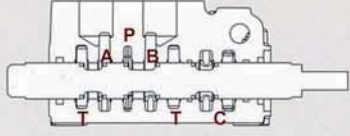
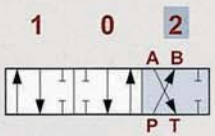
MB-5

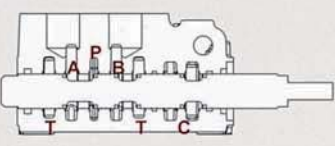
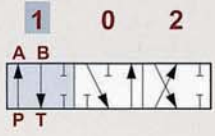
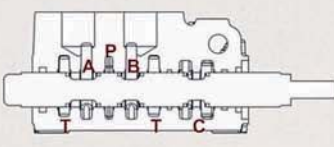
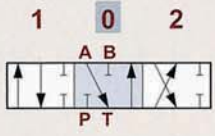
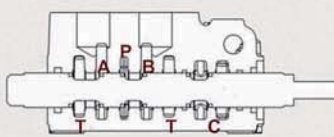
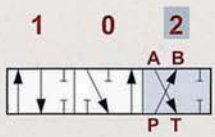
| TYPE 3  |   |  |
|---|---|--|
|    | <p><b>P → A</b><br/>T &amp; C closed</p>          | <p>1 0 2<br/> <br/> <b>"B" port plugged</b></p>   |
|    | <p><b>P &amp; A &amp; T closed</b><br/>C open</p> | <p>1 0 2<br/> <br/> <b>"B" port plugged</b></p>   |
|   | <p><b>A → T</b><br/>P closed<br/>C open</p>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

# MB-5 Spool Options

## Monoblock Directional Control Valves

MB-5

| TYPE 5   |  |  |
|--|--|--|
|   | <p>P → A</p> <p>B → T</p> <p>C closed</p>          |   |
|   | <p>B → T</p> <p>P &amp; A closed</p> <p>C open</p> |   |
|  | <p>P → B</p> <p>A → T</p> <p>C closed</p>          |  |

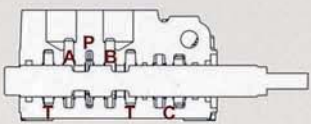
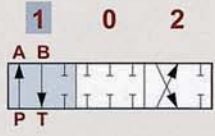
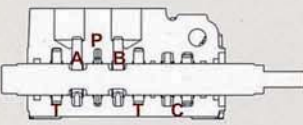
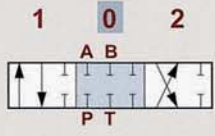
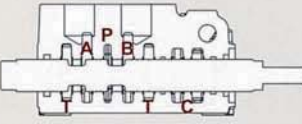
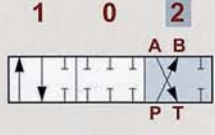
| TYPE 6  |  |   |
|---|--|---|
|  | <p>P → A</p> <p>B → T</p> <p>C closed</p>          |  |
|  | <p>A → T</p> <p>P &amp; B closed</p> <p>C open</p> |  |
|  | <p>P → B</p> <p>A → T</p> <p>C closed</p>          |  |

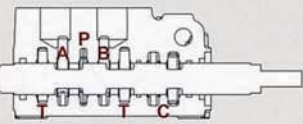
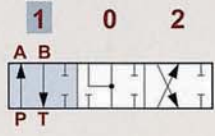
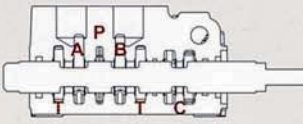
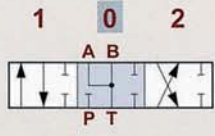
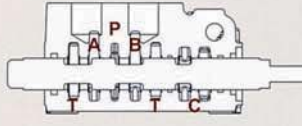
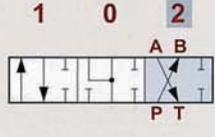


# MB-5 Spool Options

## Monoblock Directional Control Valves

MB-5

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

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

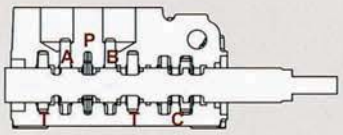
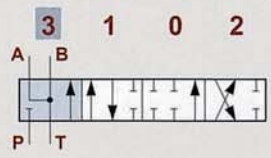
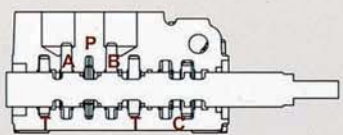
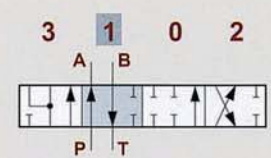
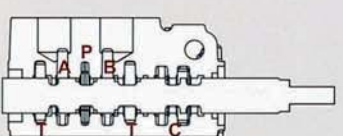
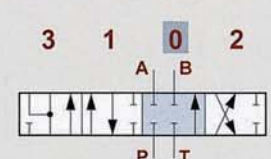

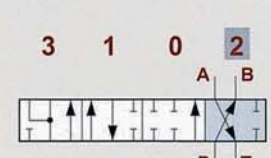
MB-5



# MB-5 Spool Options

## Monoblock Directional Control Valves

MB-5

| TYPE 5PY  | NOTE: WITH SPECIAL BODY AND SPECIAL POSITIONNER       |   |
|---|---|---|
|    | <p>A &amp; B → P</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

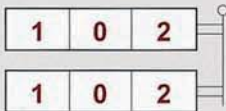
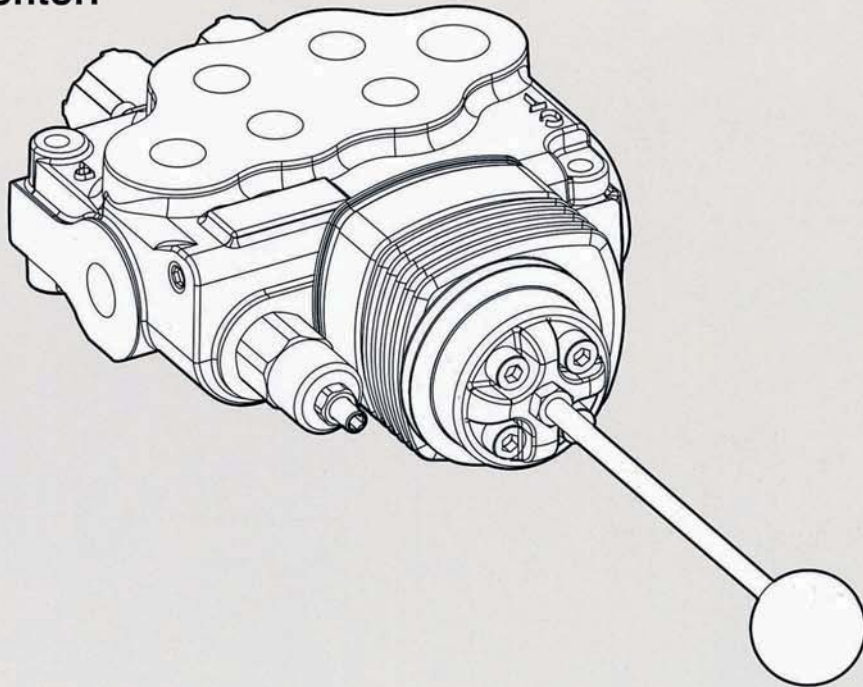
MB-5

| Type L   |  |  |
|----------|--|--|
|          |  | <p><b>Type L :</b><br/>STANDART LEVER KIT</p>                          |
| Type R   |  |  |
|          |  | <p><b>Type R :</b><br/>STANDART LEVER KIT<br/>(ROTATED 180 DEGREE)</p> |
| Type SLP |  |  |
|          |  | <p><b>Type SLP :</b><br/>WITH DUST-PROOF PLATE</p>                     |



# MB-5 A Side Monoblock Directional Control Valves

LCB: Joystick control



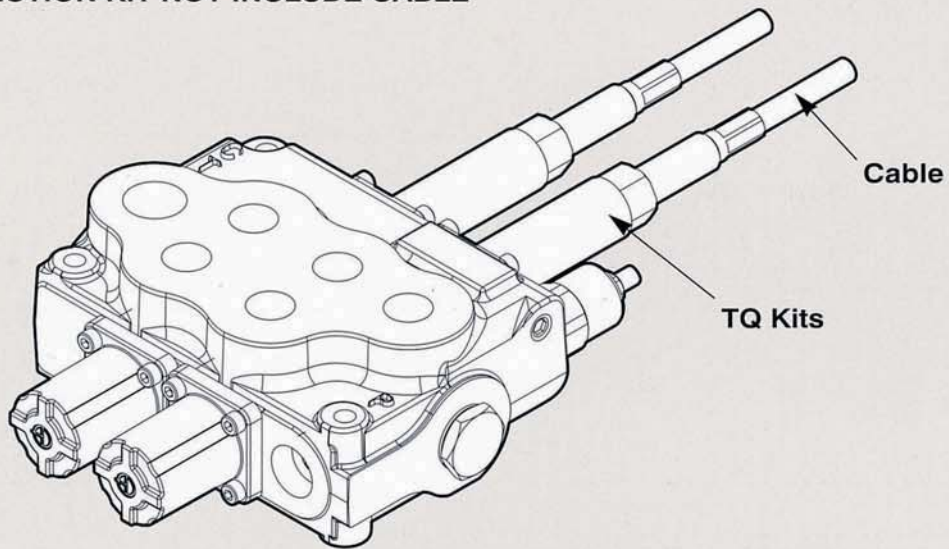
MB-5

| Type LCB | LCB1 | LCB2 |
|----------|------|------|
|          |      |      |
| Type LCB | LCB3 | LCB4 |
|          |      |      |

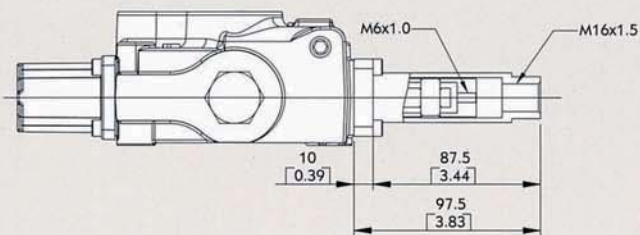
# MB-5 A Side Monoblock Directional Control Valves

MB-5

Note : CONNECTION KIT NOT INCLUDE CABLE



## Type TQ



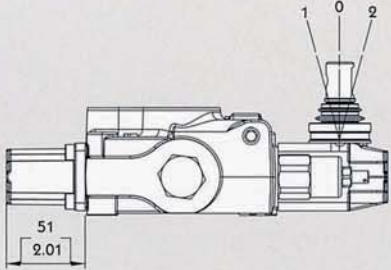



TQ Kit:

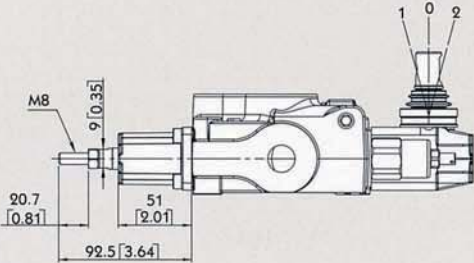





# MB-5 B Side Monoblock Directional Control Valves

MB-5

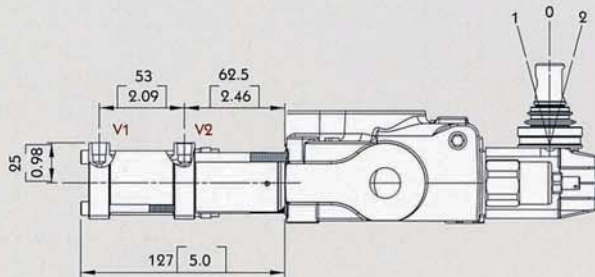
| Type 6  |  |   |
|---|--|---|
|  |  | <p><b>6-1 Kit:</b><br/>DETENT IN POS. 1-0-2, WITHOUT SPRING CENTERED</p>            |
|   |  | <p><b>6-2 Kit:</b><br/>2 POSITIONS, DETENT IN POS. 0-2, WITHOUT SPRING CENTERED</p> |
|   |  | <p><b>6-3 Kit:</b><br/>2 POSITIONS, DETENT IN POS. 1-0, WITHOUT SPRING CENTERED</p> |

| Type 8D2  |  |  |
|---|--|--|
|  |  | <p><b>8D2 Kit:</b><br/>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 :**

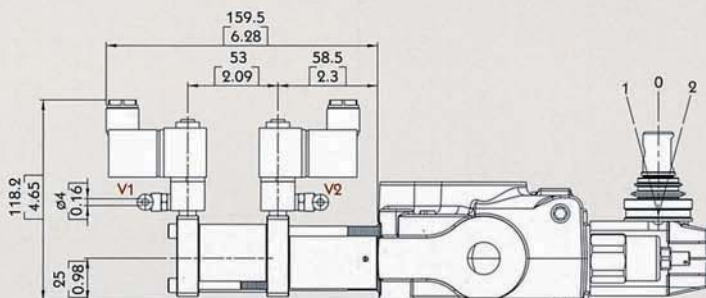
PILOT PRESSURE (MIN.): 6 BAR / 87 PSI  
PILOT PRESSURE (MAX.): 12 BAR / 174 PSI

ON/OFF PNEUMATIC KIT



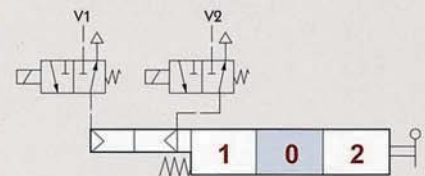
MB-5

## Type 8EP3



**Solenoid operating features :**

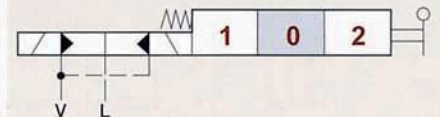
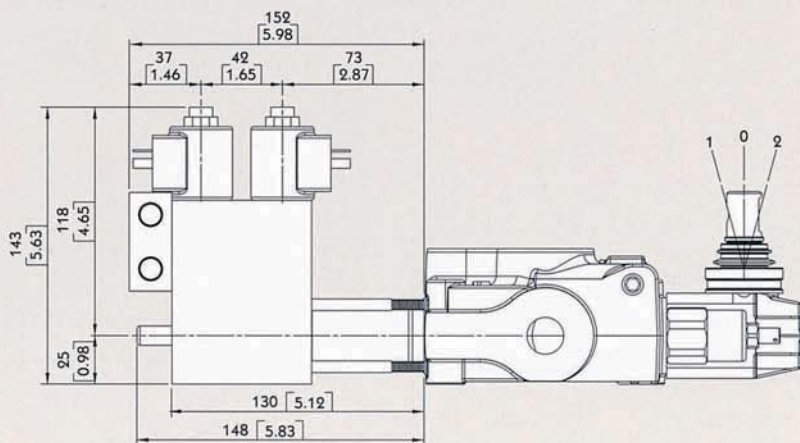
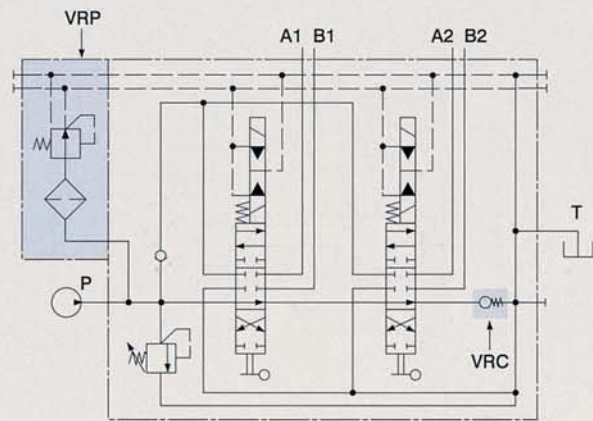
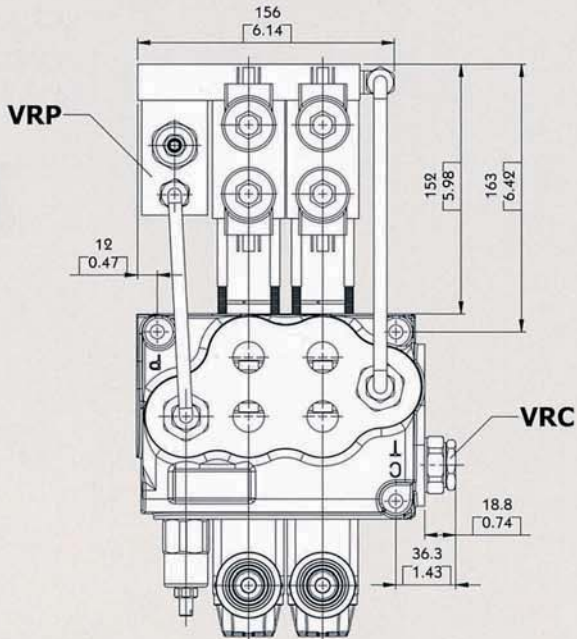
NOMINAL VOLTAGE: 24VDC  
NOMINAL VOLTAGE TOLERANCE: ±10%  
POWER RATING: 5W



# MB-5 B Side Monoblock Directional Control Valves

MB-5

Type 8ED3



**Operating features :**

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

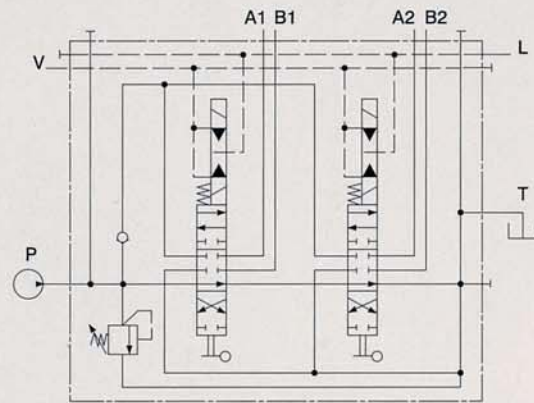
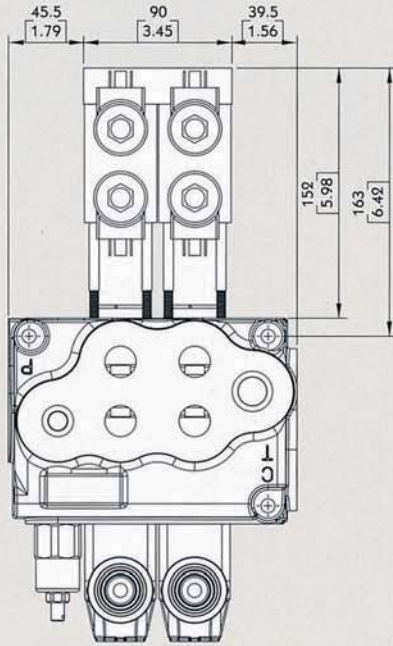
**Coil features :**

NOMINAL VOLTAGE TOLERANCE: ±10%  
 ELECTRIC POWER: 21 W  
 STANDARD VOLTAGE: 12 VDC / 24 VDC

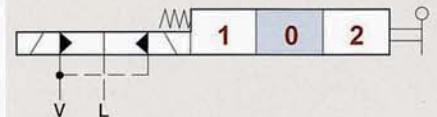
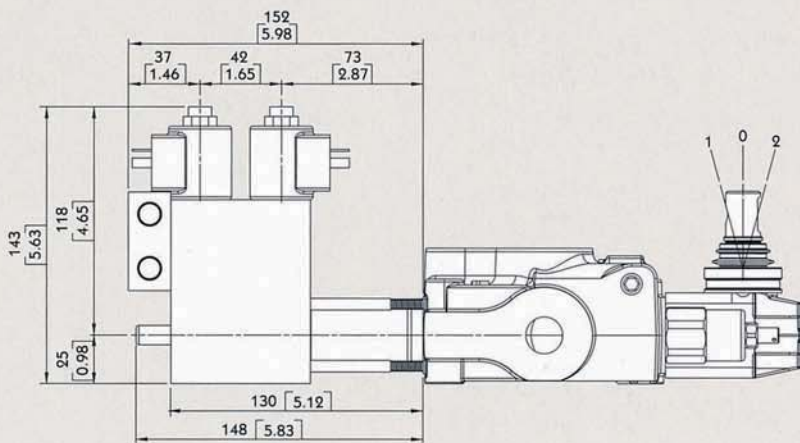


# MB-5 B Side Monoblock Directional Control Valves

## Type 8ER3



MB-5



### Operating features :

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

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

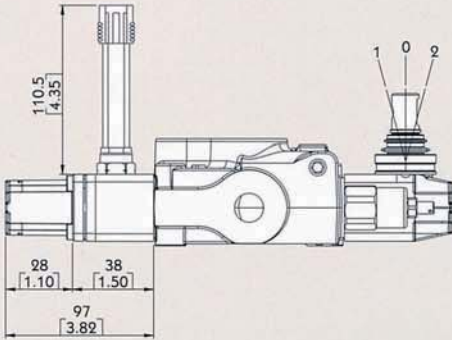
### Coil features :

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

# MB-5 B Side Monoblock Directional Control Valves

MB-5

## Type 8MG



### MICROSWITCH Operating features :

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

ELECTRICAL LITE (RESISTIVE LOAD):

- 10<sup>5</sup> OPERATIONS - 7A / 13.5 VDC
- 5x10<sup>4</sup> OPERATIONS - 10A / 12 VDC
- 5x10<sup>4</sup> OPERATIONS - 3A / 28 VDC



### 8MG1 Kit:

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



### 8MG2 Kit:

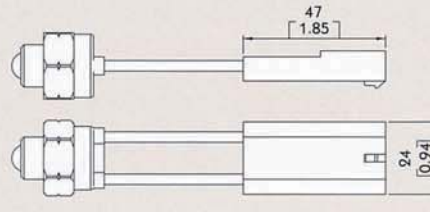
MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 2



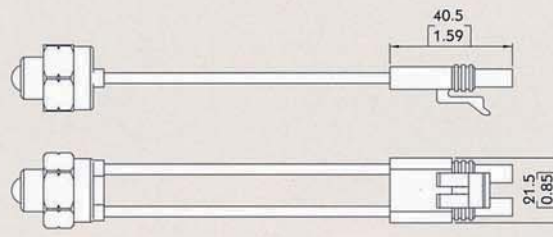
### 8MG3 Kit:

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

MB-5

| Type 8 |  |   |
|--------|--|---|
|        |  | <p><b>8 Kit:</b><br/>SPRING RETURN TO NEUTRAL POSITION.</p>                     |
|        |  | <p><b>8-1 Kit:</b><br/>SPRING RETURN TO NEUTRAL POSITION.<br/>(2 POSITIONS)</p> |
|        |  | <p><b>8-2 Kit:</b><br/>SPRING RETURN TO NEUTRAL POSITION.<br/>(2 POSITIONS)</p> |

| Type 9 |  |   |
|--------|--|---|
|        |  | <p><b>9-1 Kit:</b><br/>DETENT IN POS. 1, 2 WITH SPRING CENTERED</p> |
|        |  | <p><b>9-2 Kit:</b><br/>DETENT IN POS. 2 WITH SPRING CENTERED</p>    |
|        |  | <p><b>9-3 Kit:</b><br/>DETENT IN POS. 1 WITH SPRING CENTERED</p>    |



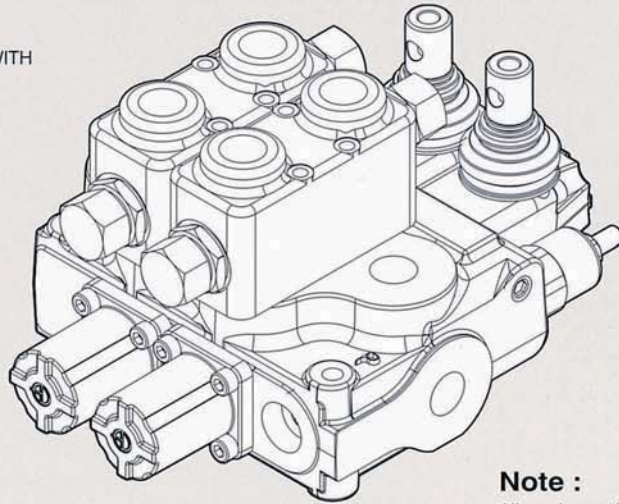
# MB-5 Service and auxiliary valves

## Monoblock Directional Control Valves

MB-5

### Anti-shock valves

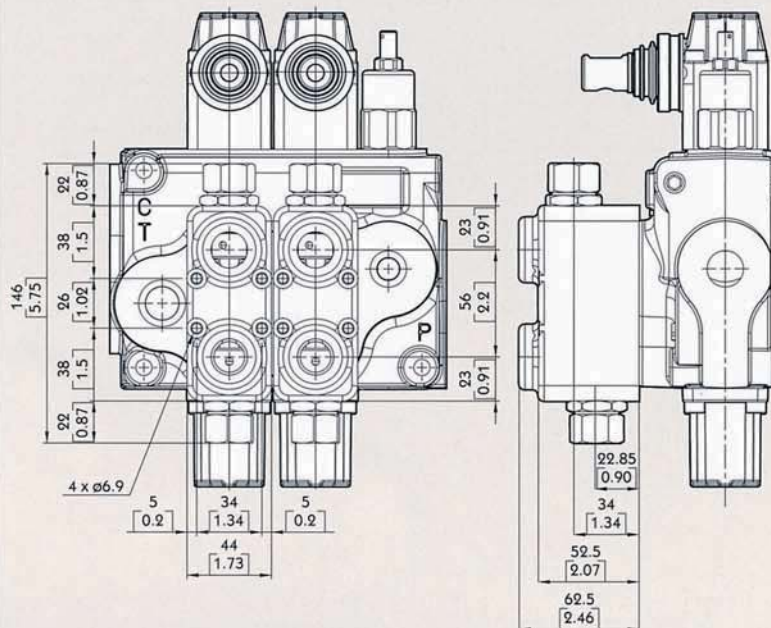
(CROSS RETURN TYPE, SUPPLIED WITH MOUNTING BLOCK)



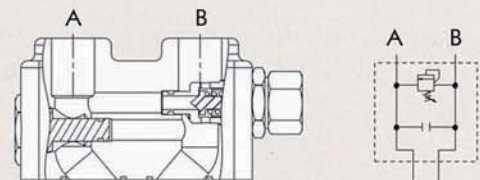
**Note :**

All service and auxiliary valves need special body

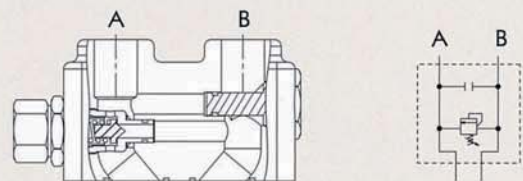
### Type P



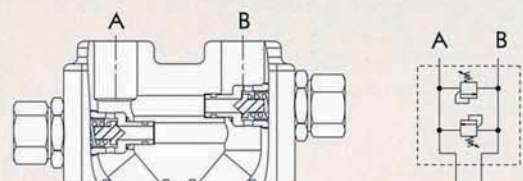
**P1 Kit:** YLMB56001, Block with valve on port A



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



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



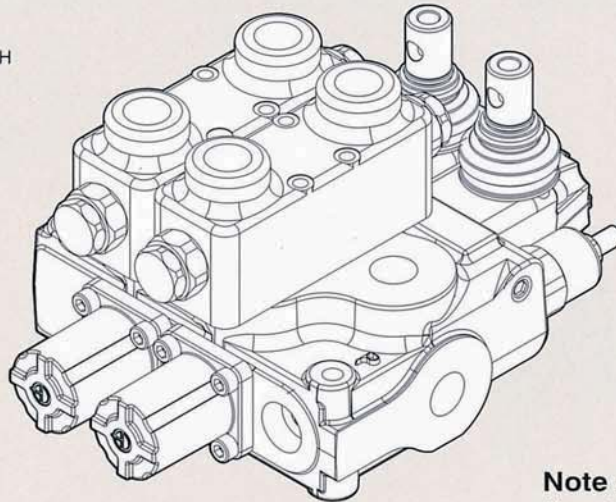
# MB-5 Service and auxiliary valves

## Monoblock Directional Control Valves

MB-5

### Pilot check valves

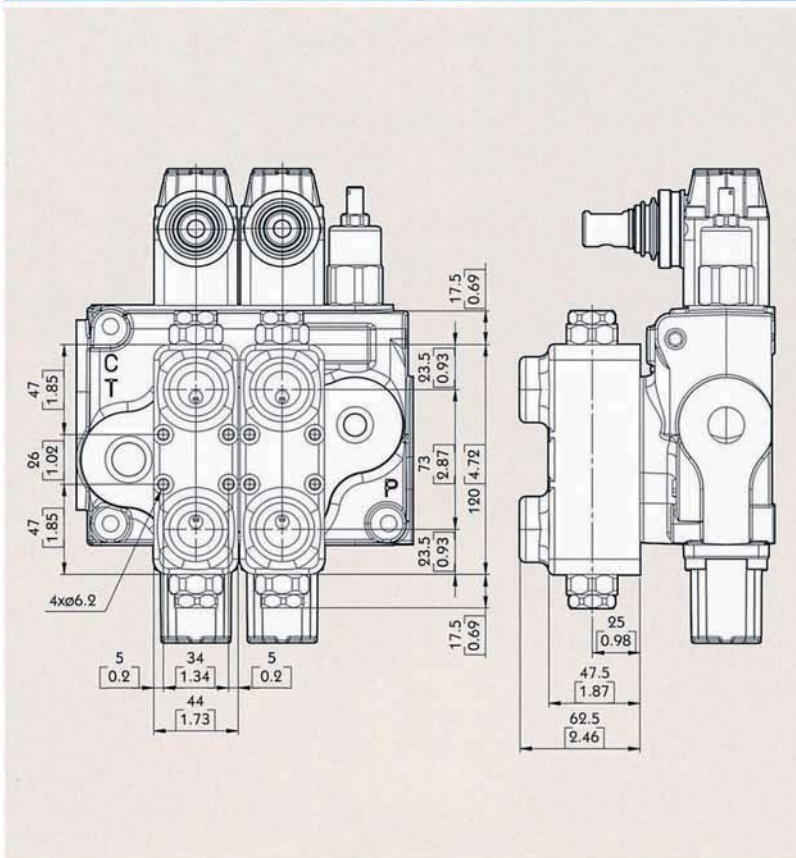
(WITH PRE-OPENING, SUPPLIED WITH MOUNTING BLOCK)



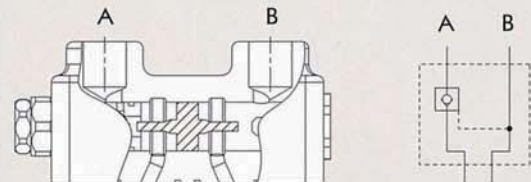
**Note :**

All service and auxiliary valves need special body

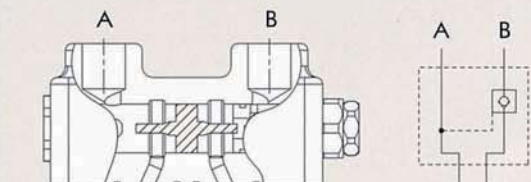
### Type BSP Pilot check valves (With Pre-opening, supplied with mounting block)



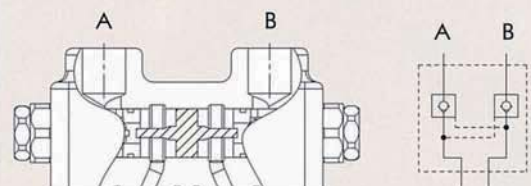
**BSP1 Kit:** YLMB57001, Block with valve on port A



**BSP2 Kit:** YLMB57002, Block with valve on port B



**BSP3 Kit:** YLMB57003, Block with valve on port A and B

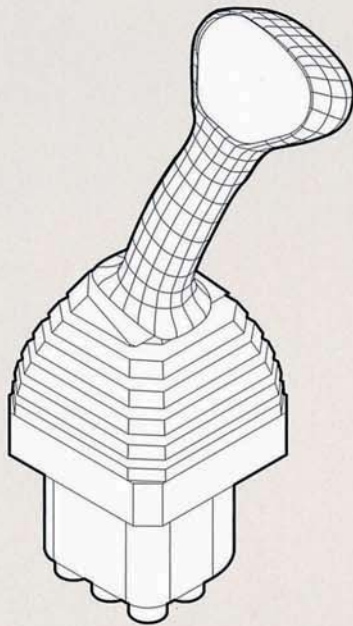




# MB-5 Accessories

## Monoblock Directional Control Valves

Type JS

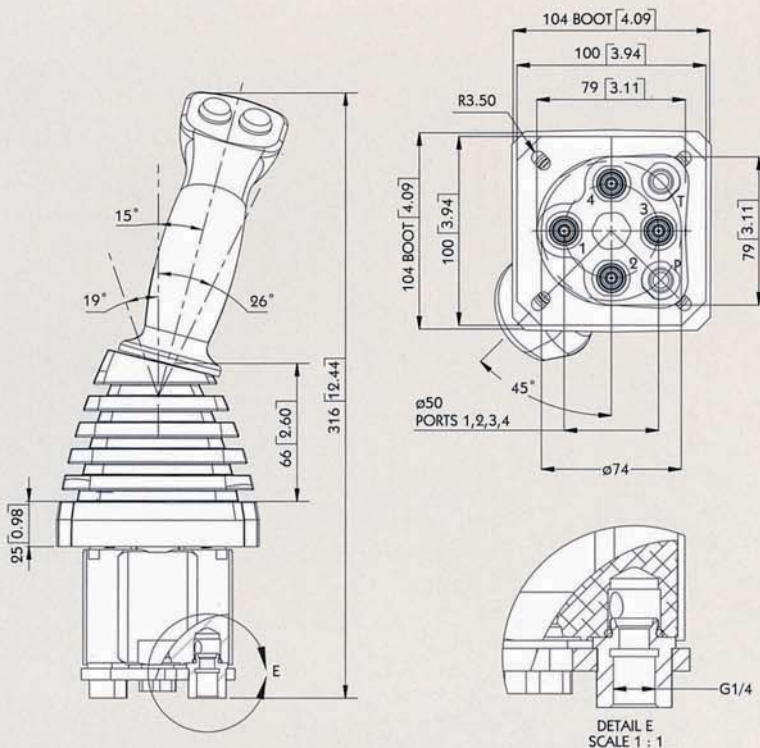


**CODE: YLJS446**  
**Hydraulic Pilot Valve - handle type**

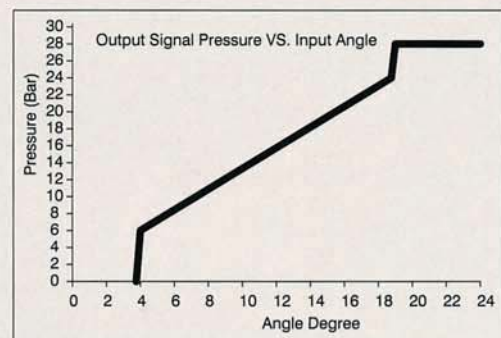
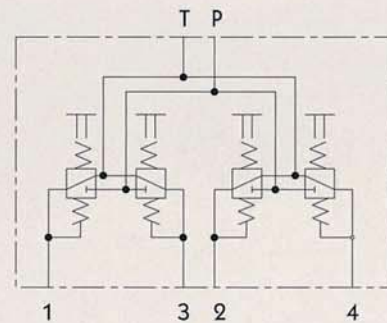
**Specifications:**

- 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
- Output pressure : see diagram
- Internal leakage at 30 bar : 18 ~ 24 cm<sup>3</sup>/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80°C
- Ambient temperature : - 40 ~ 60°C

MB-5



**HYDRAULIC SCHEME:**





# MB-5 Accessories

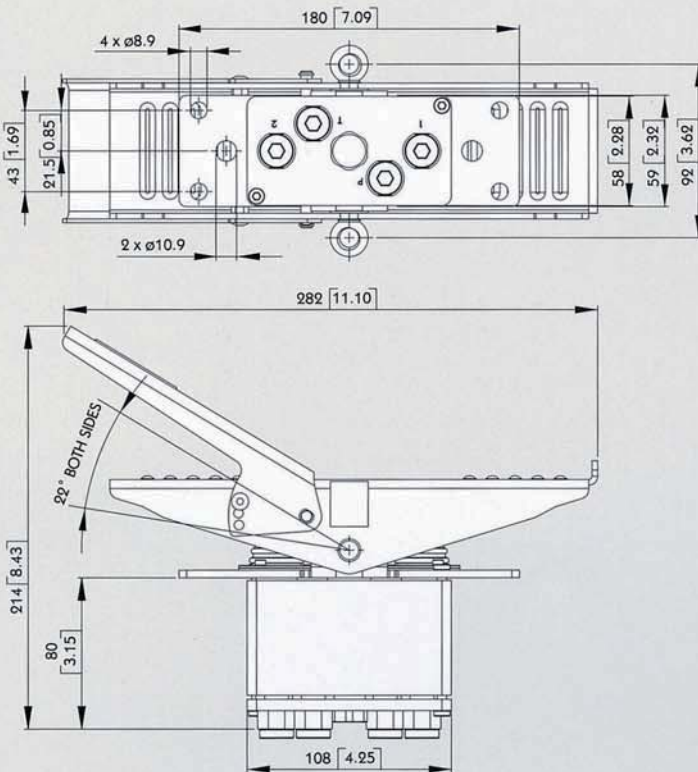
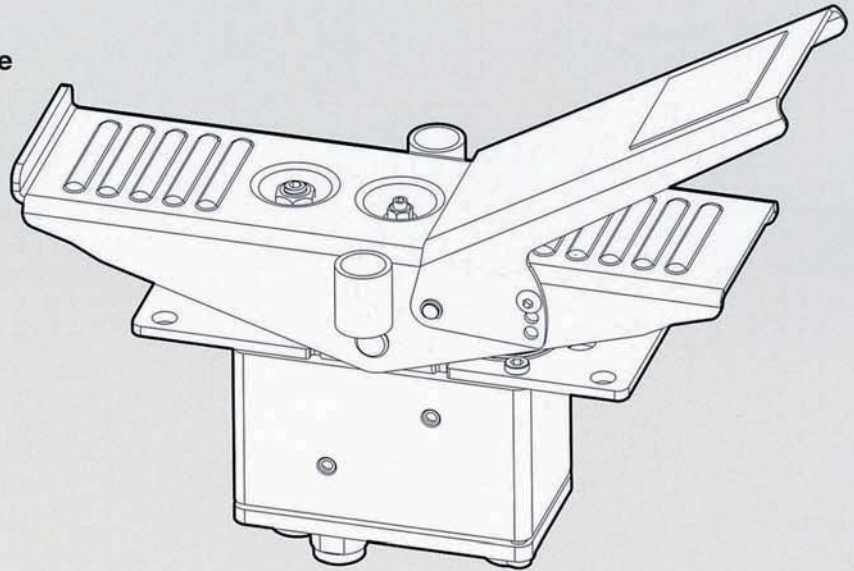
## Monoblock Directional Control Valves

### Type FP

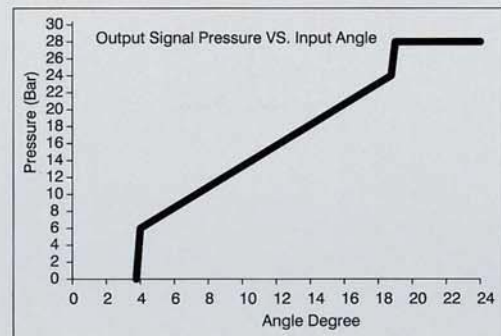
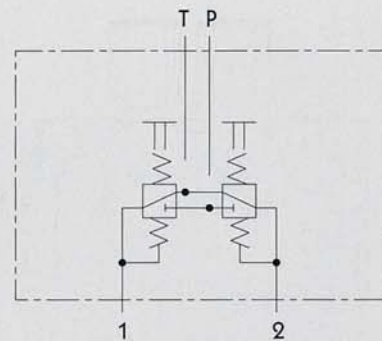
**CODE: YLFP246**  
**Hydraulic Pilot Valve - pedal type**

**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
- Output pressure : see diagram
- Internal leakage at 30 bar : 18 ~ 24 cm<sup>3</sup>/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80°C
- Ambient temperature : - 40 ~ 60°C



**HYDRAULIC SCHEME:**



MB-5

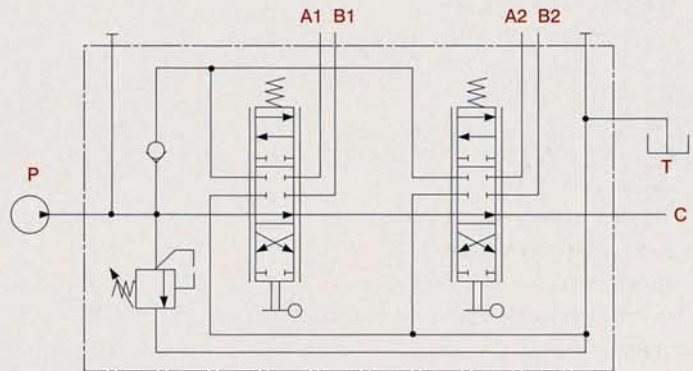
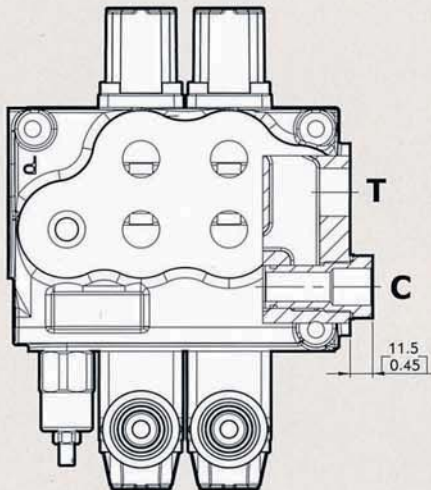
# MB-5 Outlet

## Monoblock Directional Control Valves

MB-5

### M8

Power Beyond Conversion plug  
(Closed center plug)



### M3

