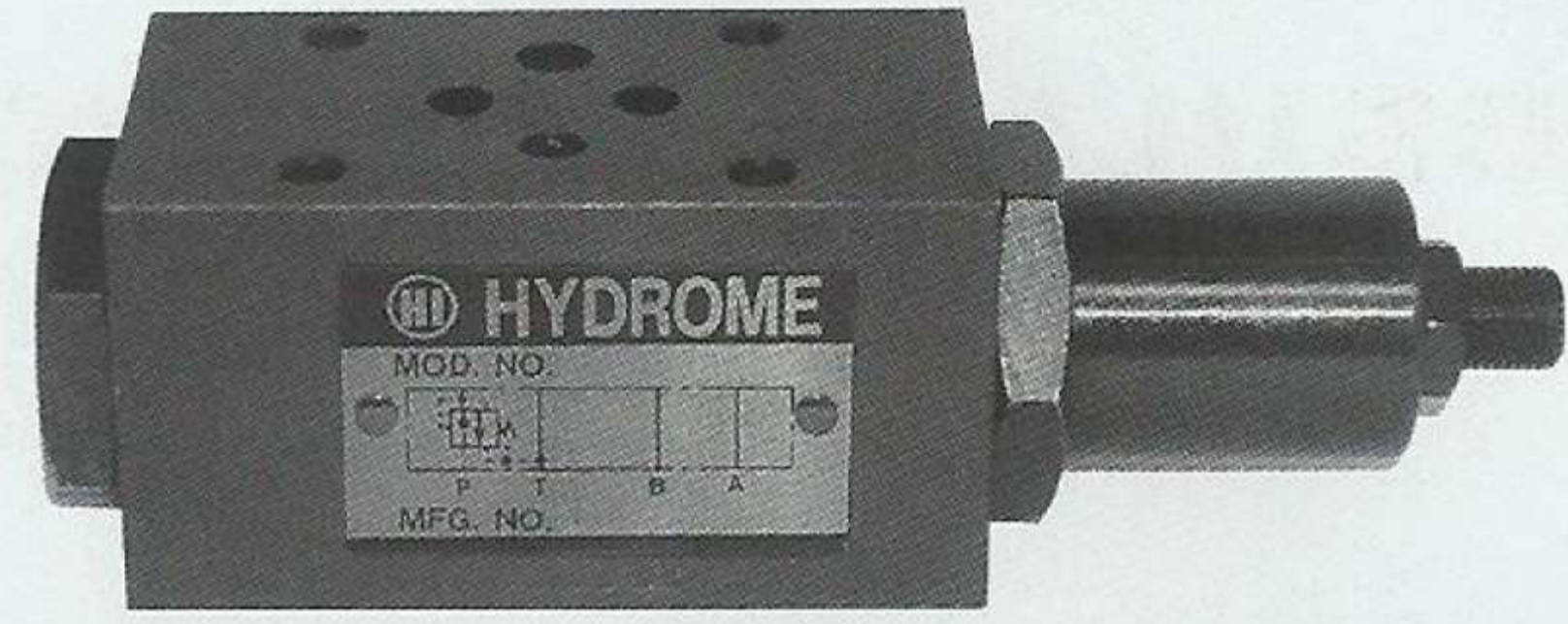
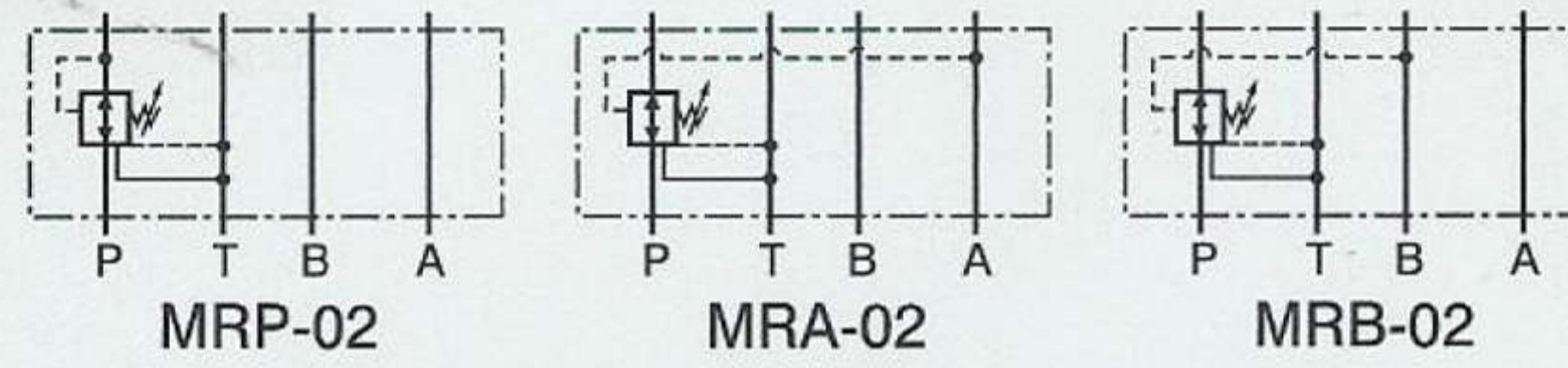


# MODULAR PRESSURE REDUCING VALVE



## FEATURES:

- Drain port should be connected to tank.
- Pressure difference between primary pressure and secondary pressure should be maintained over 10 bar for good pressure reduction.
- Pressure cannot be adjusted if a certain flow rate cannot be obtained.



## How to order

**MR P - 02 - ✖ - ✖**  
 1 2 3 4 5

- |   |   |
|---|---|
| 1 | Model   |
| 2 | Control port P: P port A: A port B: B port                      |
| 3 | Nominal valve size 02: 1/4" (CETOP: 3, ISO: 03, NG: 6)          |
| 4 | Pressure adjustment range S: 3~35 bar B: 7~70 bar C: 35~140 bar |
| 5 | Adjustment option None: Tool adjustment K: Hand-bar adjustment  |

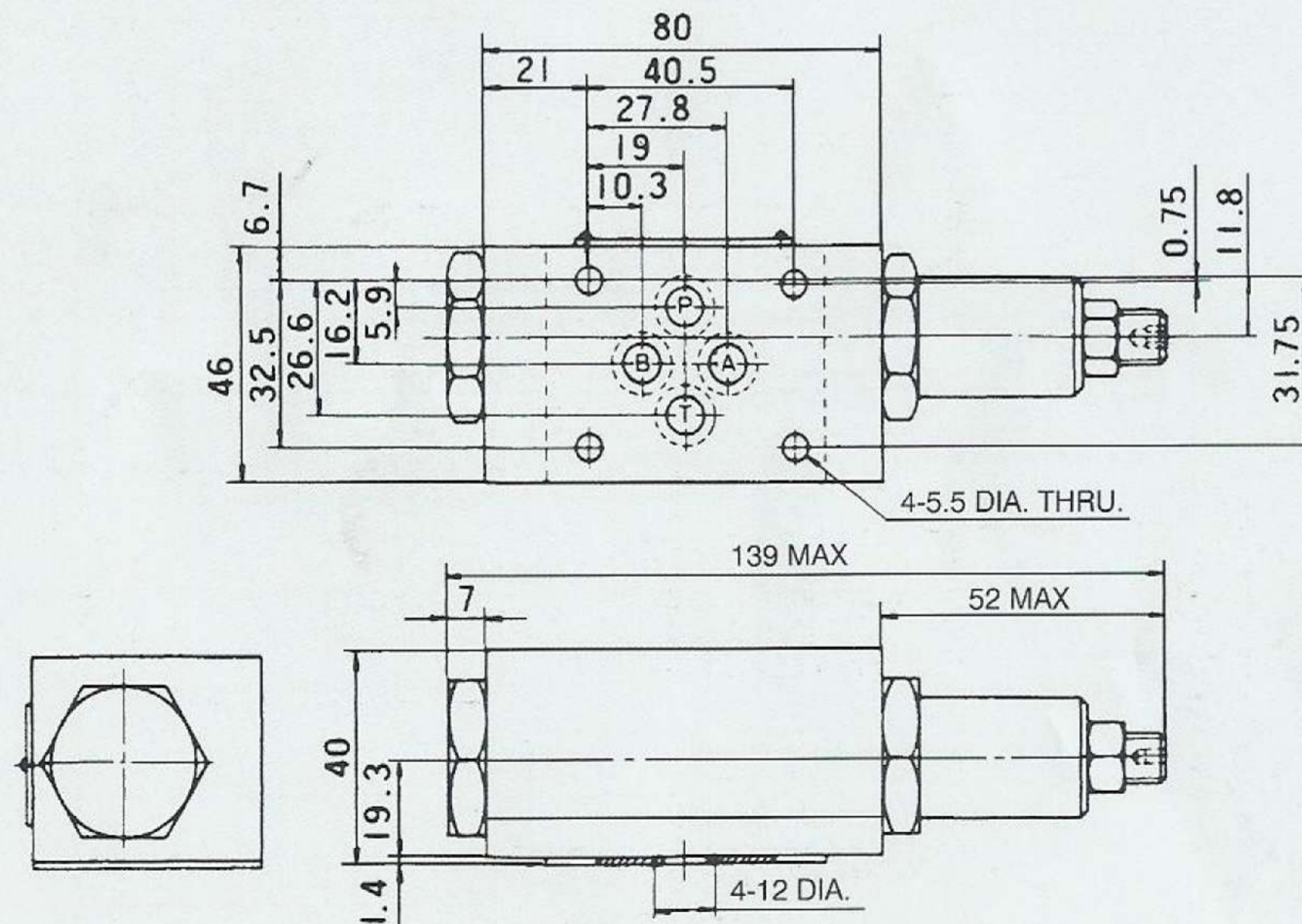
## Specifications

Model	Max. Operating Pressure (bar)	Pressure Adj. Range (bar)	Max. Flow (lpm)	Weight (kg)
MRP-02	210	S: 3~35	35	1.1
MRA-02		B: 7~70		1.1
MRB-02		C: 35~140		1.1

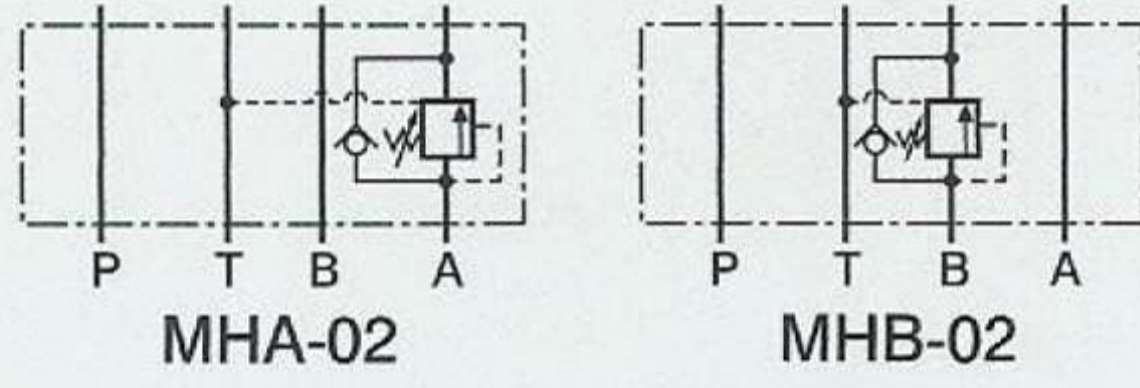
## Dimensions

### MRB-02

Unit: mm



# MODULAR COUNTERBALANCE VALVE



## How to order

**MH A - 02 - ✖ - ✖**  
 1    2    3    4    5

- 1 Model
- 2 Control port    A: A port    B: B port
- 3 Nominal valve size    02: 1/4" (CETOP: 3, ISO: 03, NG: 6)
- 4 Pressure adjusting range    C: 7~140 bar    H: 10~210 bar
- 5 Adjustment option    None: Tool adjustment    K: Hand-bar adjustment

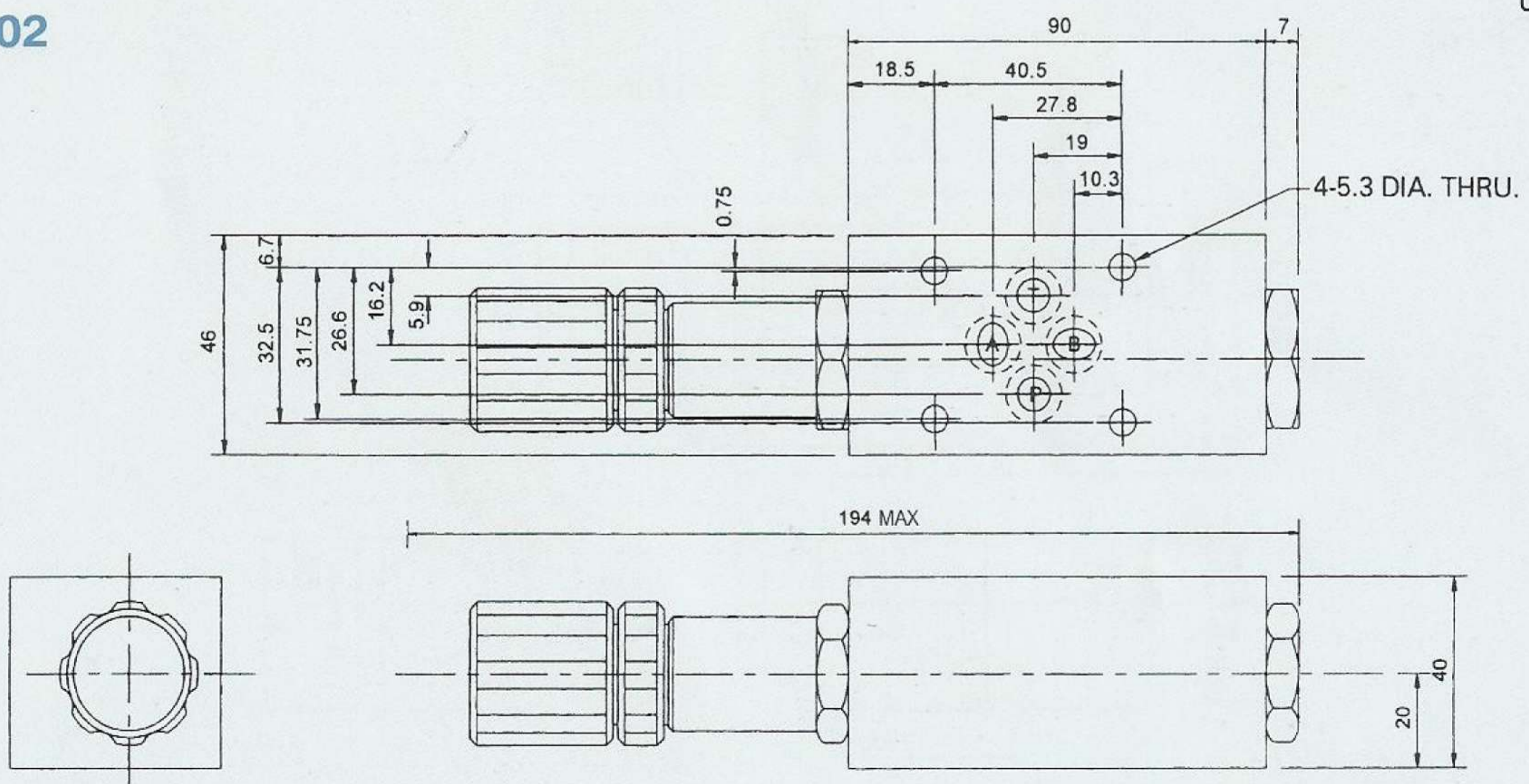
## Specifications

Model	Max. Operating Pressure (bar)	Pressure Adj. Range (bar)	Max. Flow (lpm)	Weight (kg)
MHA-02	230	C: 7~140	40	1.4
MHB-02		H: 10~210		1.4

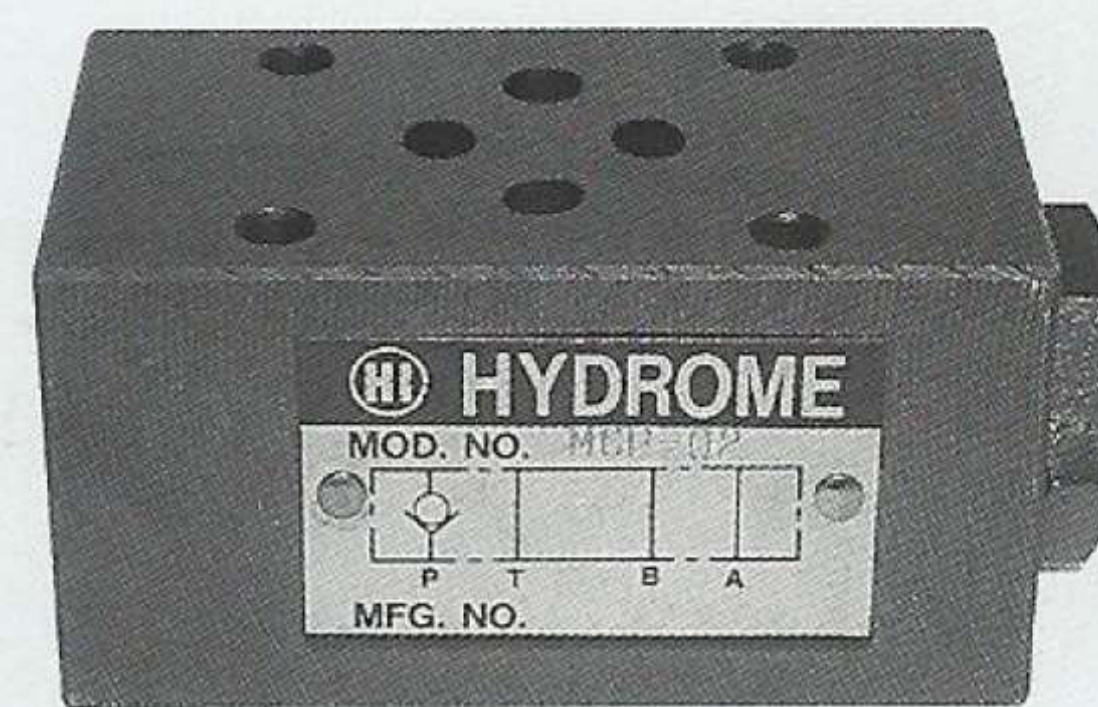
## Dimensions

**MHB-02**

Unit: mm

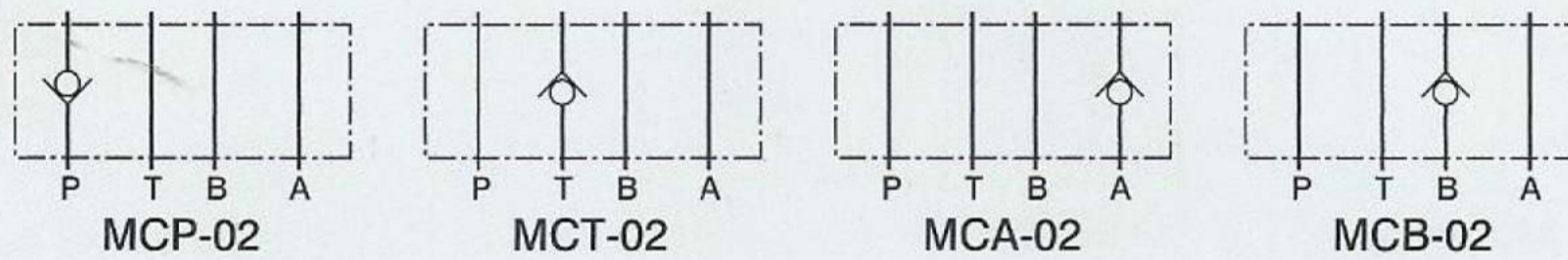


# MODULAR CHECK VALVE



## FEATURES:

- When the valve is installed upside down by means of the gasket plate, P port check type is changed to T port check type and T port check type to P port check type.



## How to order

**MC P - 02 - ✖**  
 1 2 3 4

1	Model
2	Control port P: P port T: T port A: A port B: B port
3	Nominal valve size 02: 1/4" (CETOP: 3, ISO: 03, NG: 6)
4	Cracking pressure 0: 0.35 bar 2: 2 bar

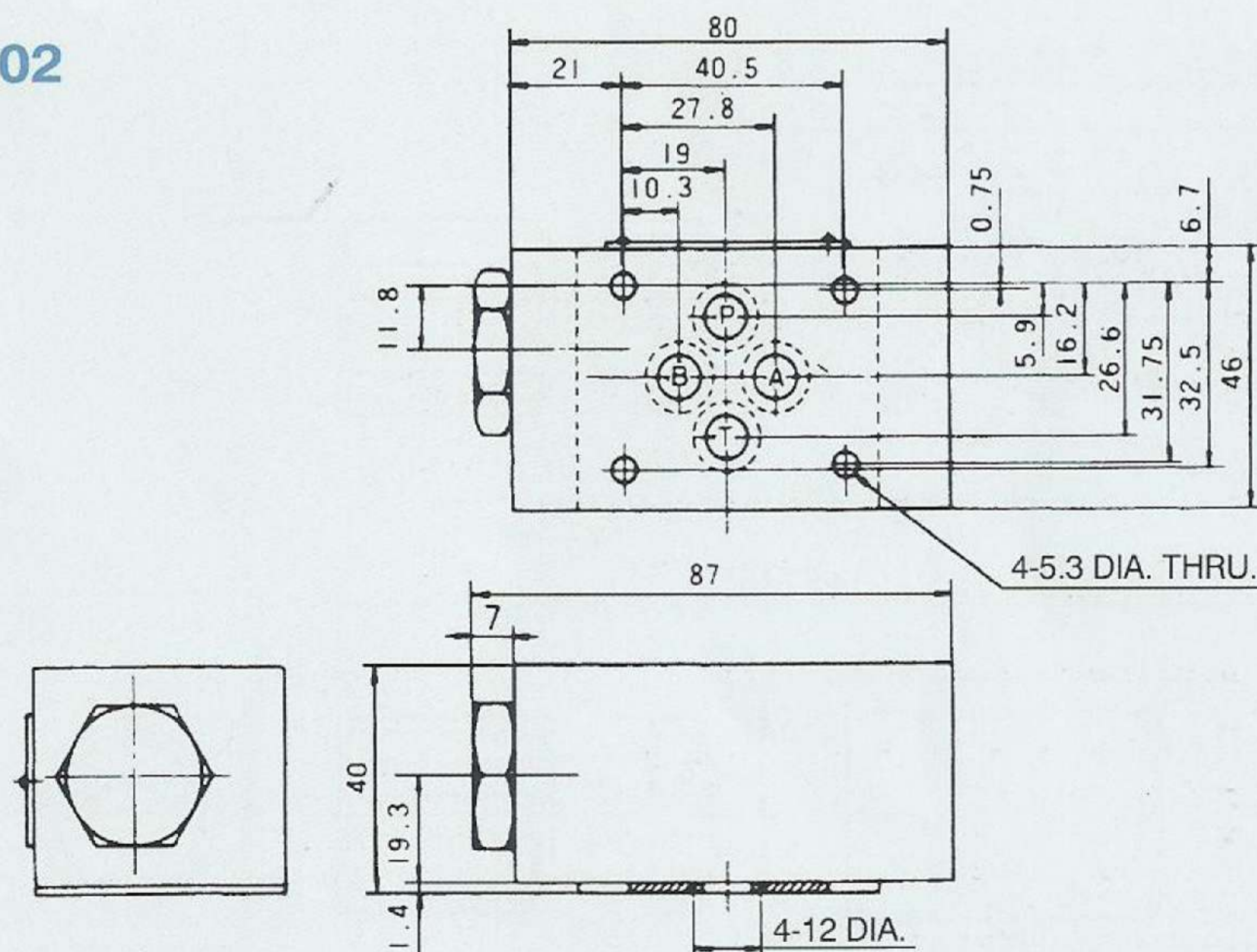
## Specifications

Model	Max. Operating Pressure (bar)	Cracking Pressure (bar)	Max. Flow (lpm)	Weight (kg)
MCP-02	280	0: 0.35	35	0.9
MCT-02				0.9
MCA-02		2: 2		1.0
MCB-02		1.0		

## Dimensions

### MCP-02, MCT-02

Unit: mm

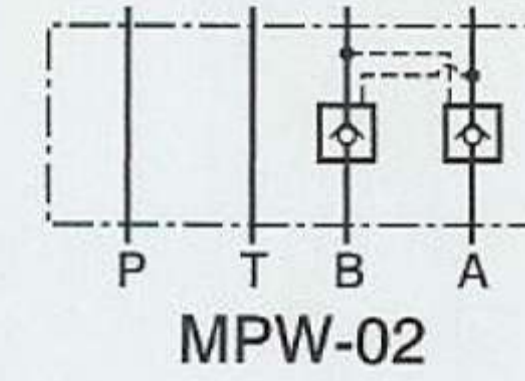
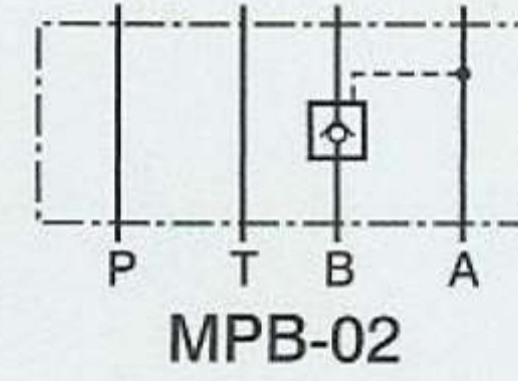
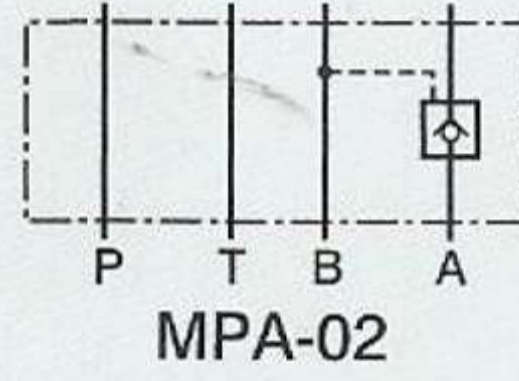


# MODULAR PILOT OPERATED CHECK VALVE



## FEATURES:

- Area ratio: 2.5:1
- Cracking pressure of check valve is 2 bar.
- The valve is the internal drain type.



## How to order

### MP W - 02

1 2 3

1	Model
2	Control port A: A port B: B port W: A and B ports
3	Nominal valve size 02: 1/4" (CETOP: 3, ISO: 03, NG: 6)

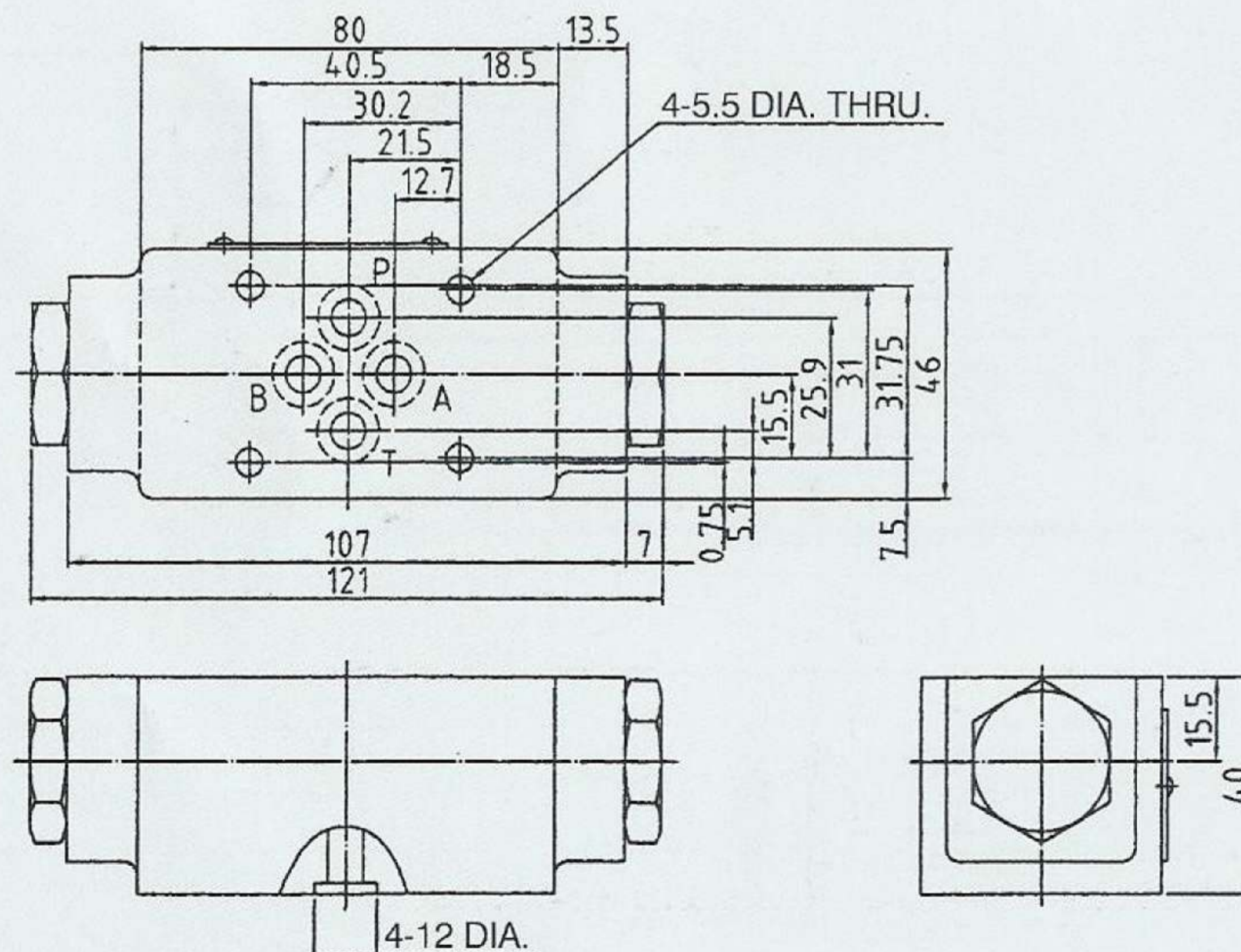
## Specifications

Model	Max. Operating Pressure (bar)	Cracking Pressure (bar)	Max. Flow (lpm)	Weight (kg)
MPA-02	280	2: 2	35	1.0
MPB-02		4: 4		1.0
MPW-02				1.1

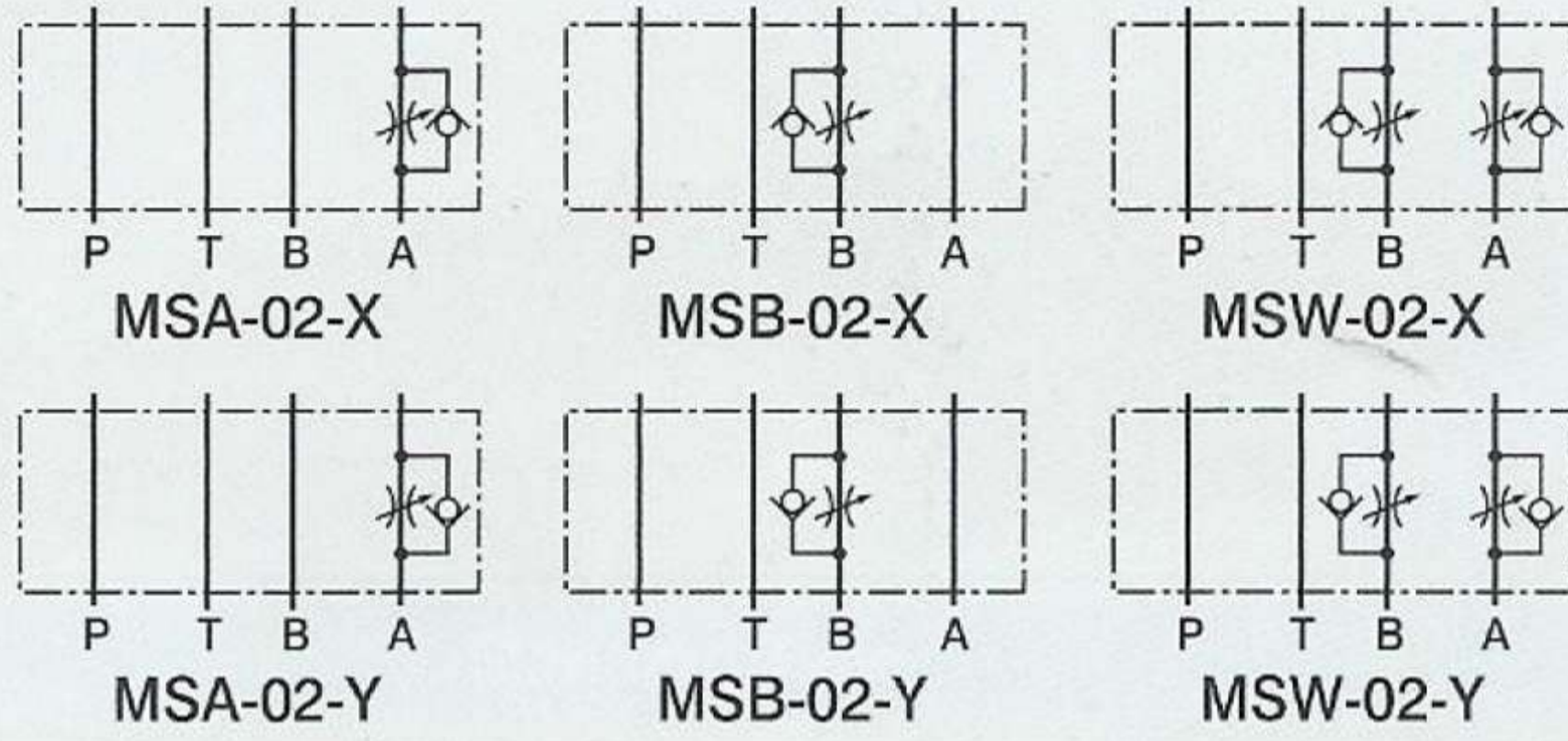
## Dimensions

### MPW-02

Unit: mm



# MODULAR THROTTLE AND CHECK VALVE



## How to order

**MS W - 02 - ✖ - ✖**  
 1 2 3 4 5

- 1 Model
- 2 Control port A: A port B: B port W: A and B ports
- 3 Nominal valve size 02: 1/4" (CETOP: 3, ISO: 03, NG: 6)
- 4 Control type X: Meter-out Y: Meter-in
- 5 Adjustment option None: Tool adjustment K: Hand-bar adjustment

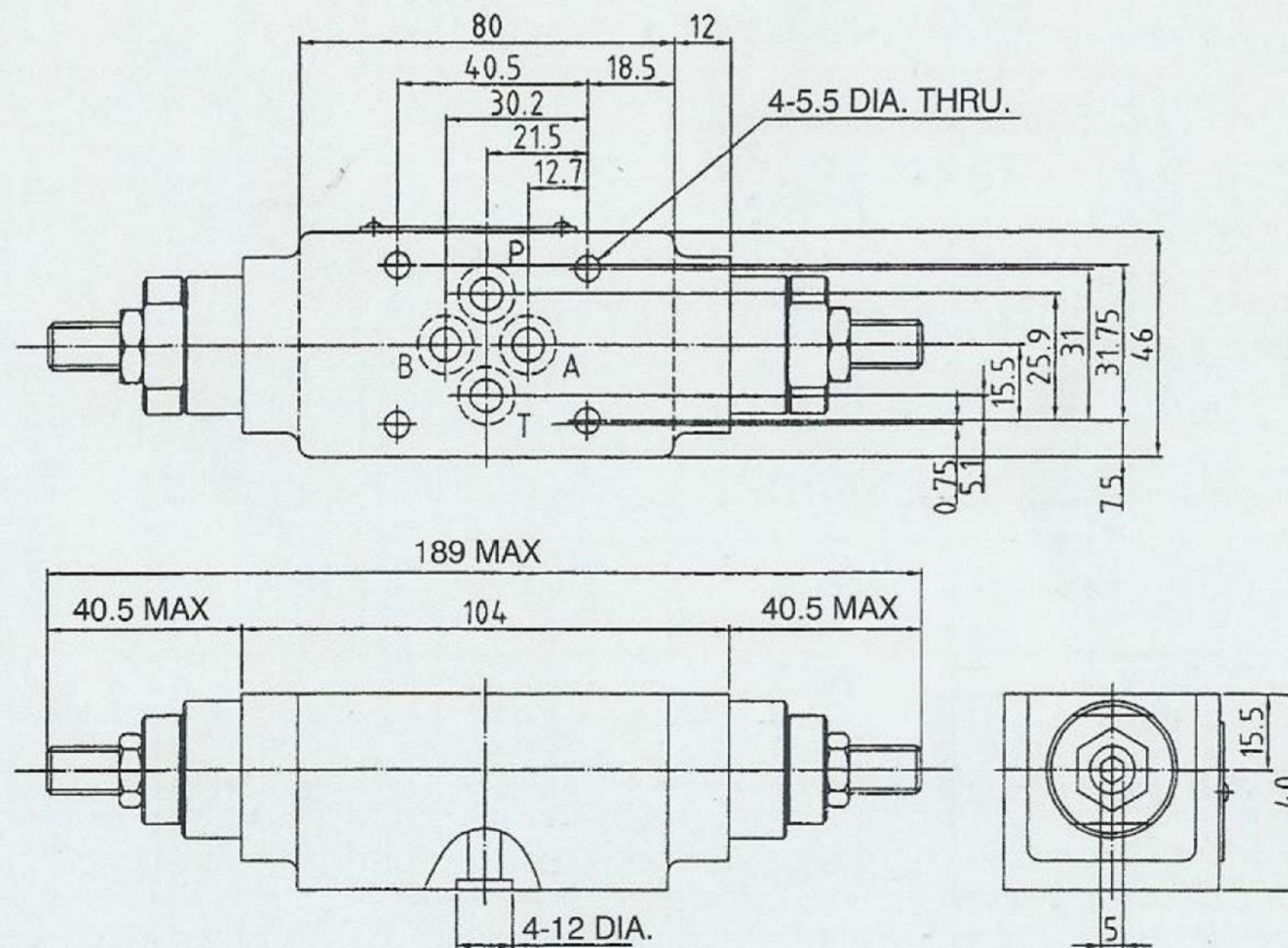
## Specifications

Model	Max. Operating Pressure (bar)	Flow Adj. Range (lpm)	Max. Flow (lpm)	Weight (kg)
MSA-02	280	0.3~25	50	1.1
MSB-02				1.1
MSW-02				1.3

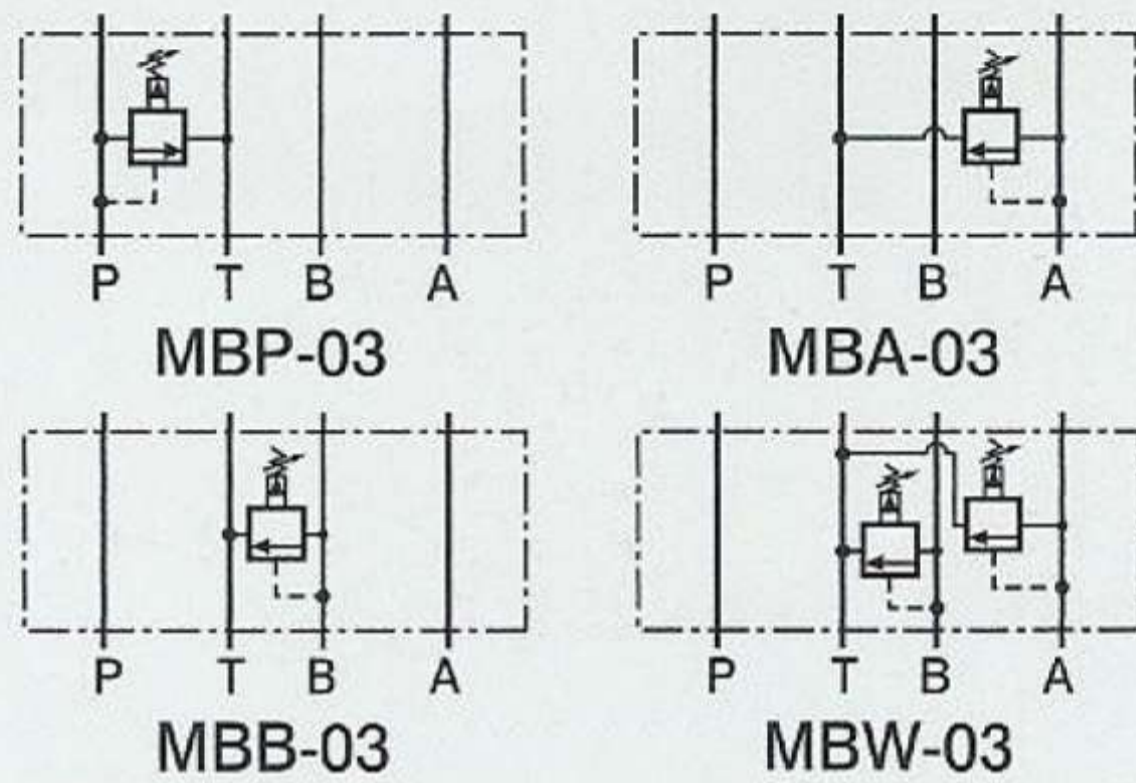
## Dimensions

**MSW-02**

Unit: mm



# MODULAR RELIEF VALVE



## How to order

**MB P - 03 - ✖ - ✖**  
1    2    3    4    5

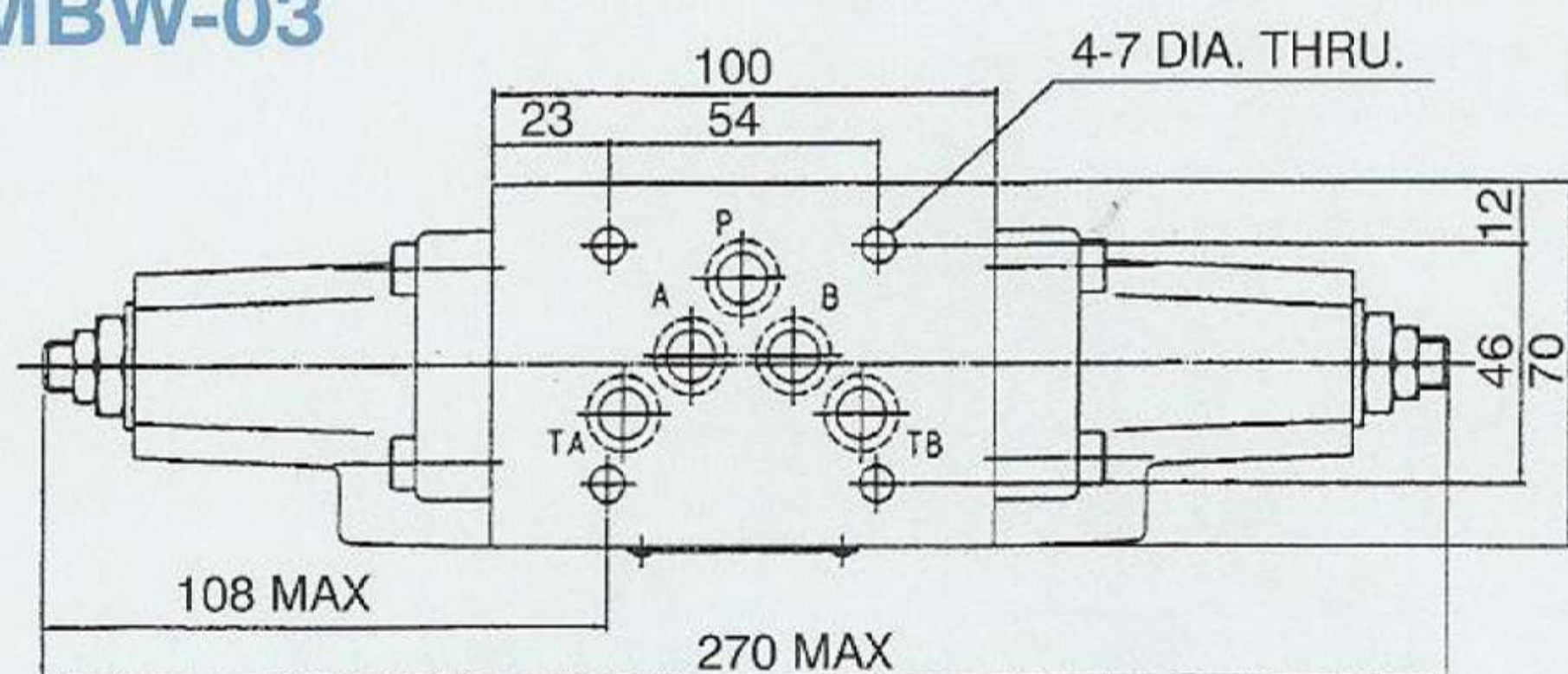
- 1 Model
- 2 Control port P: P port A: A port B: B port W: A and B ports
- 3 Nominal valve size 03: 3/8" (CETOP: 5, ISO: 05, NG: 10)
- 4 Pressure adjusting range B: 7~70 bar H: 10~230 bar
- 5 Adjustment option None: Tool adjustment K: Hand-bar adjustment

## Specifications

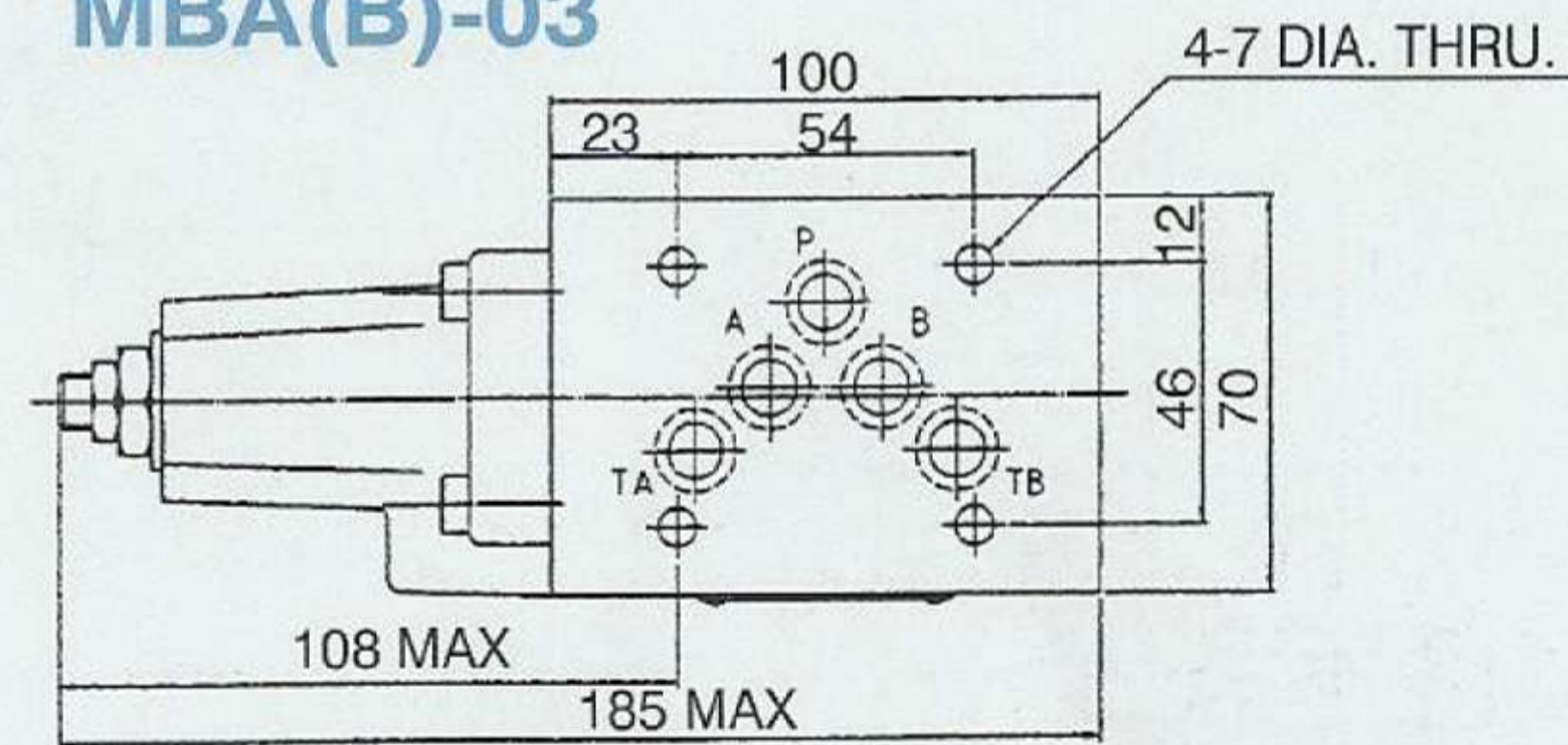
Model	Max. Operating Pressure (bar)	Pressure Adj. Range (bar)	Max. Flow (lpm)	Weight (kg)
MBP-03	250	B: 7~70 H: 10~230	70	3.5
MBA-03				3.5
MBB-03				3.5
MBW-03				4.3

## Dimensions

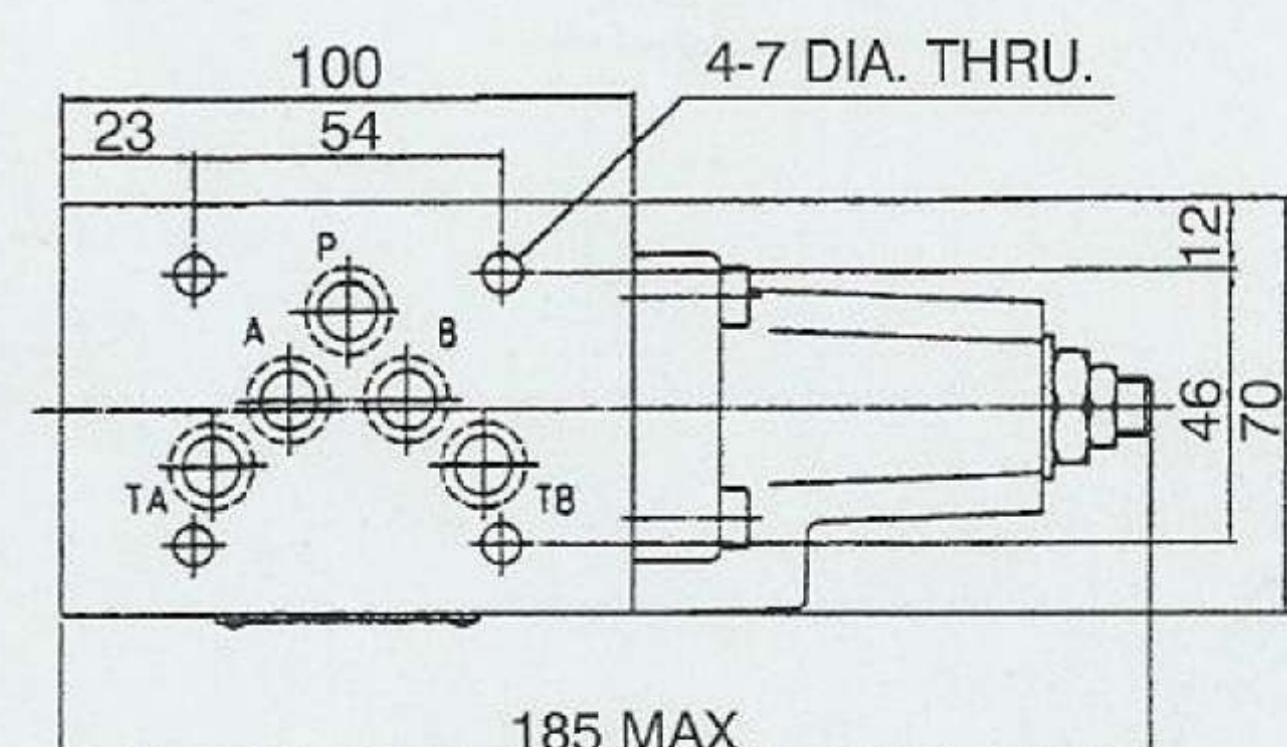
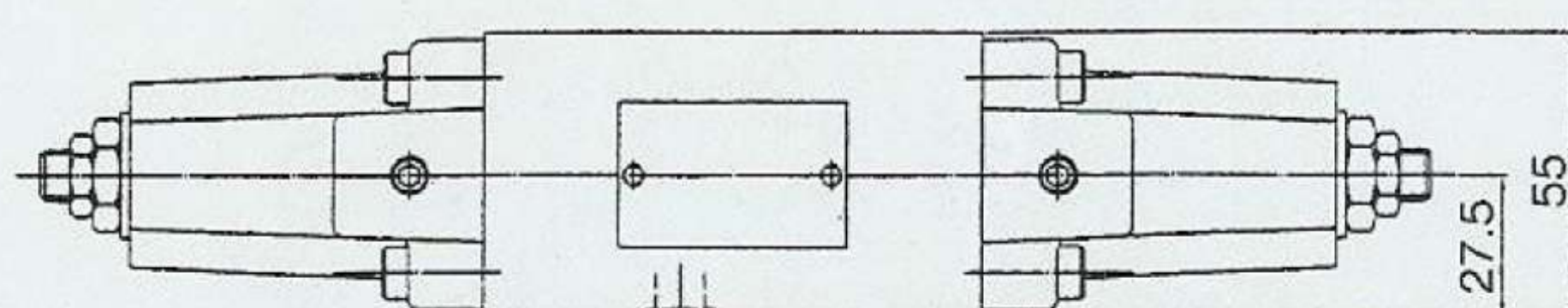
**MBW-03**



**MBA(B)-03**

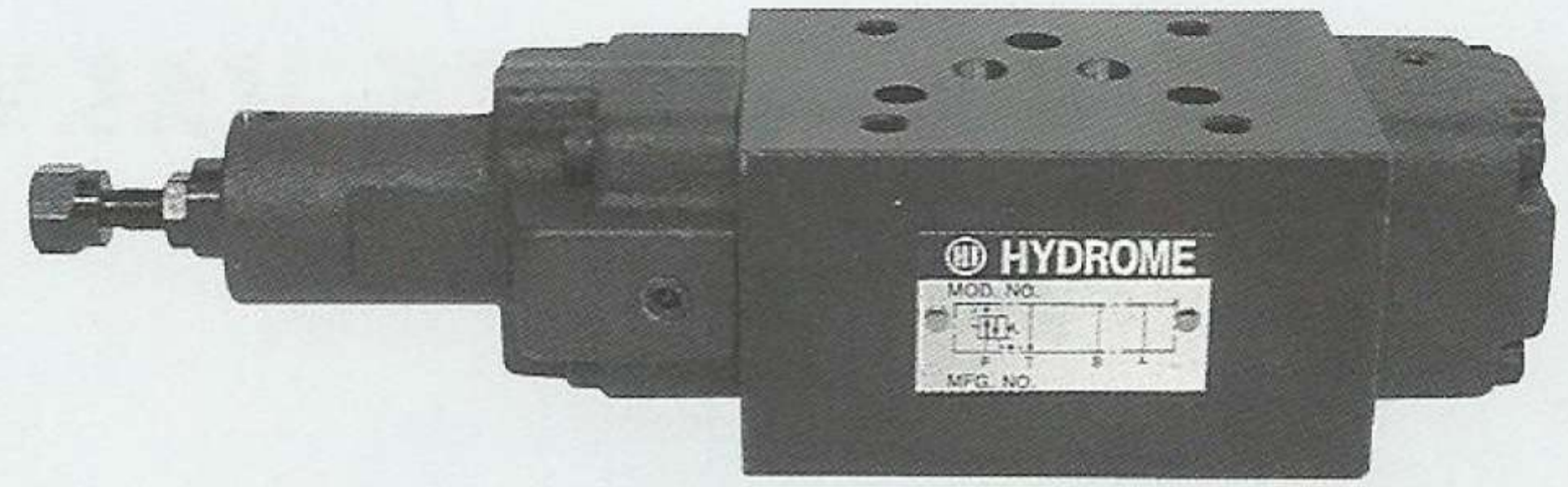


**MBP-03**



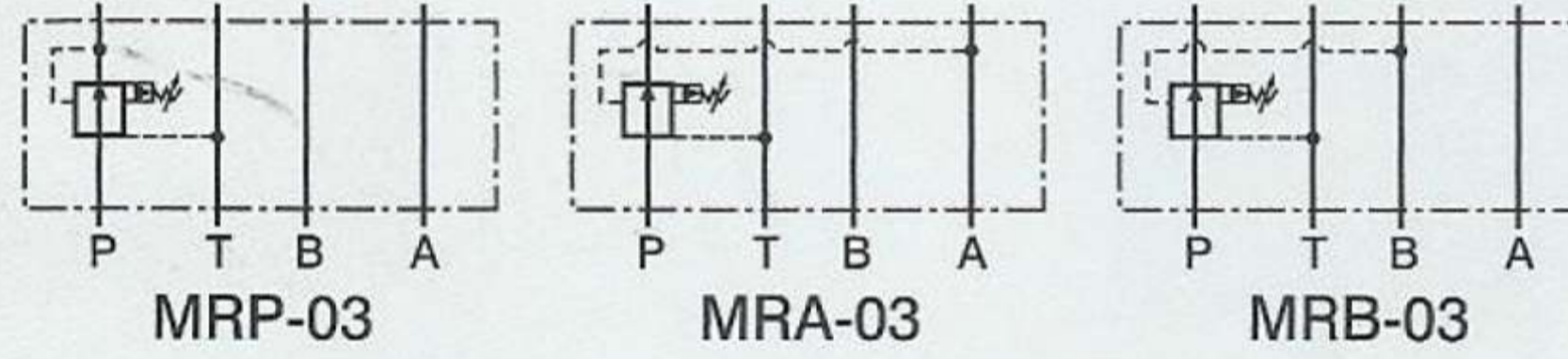
Unit: mm

# MODULAR PRESSURE REDUCING VALVE



## FEATURES:

- Drain port should be connected to tank.
- Pressure difference between primary pressure and secondary pressure should be maintained over 10 bar for good pressure reduction.



## How to order

**MR P - 03 - ✖ - ✖**

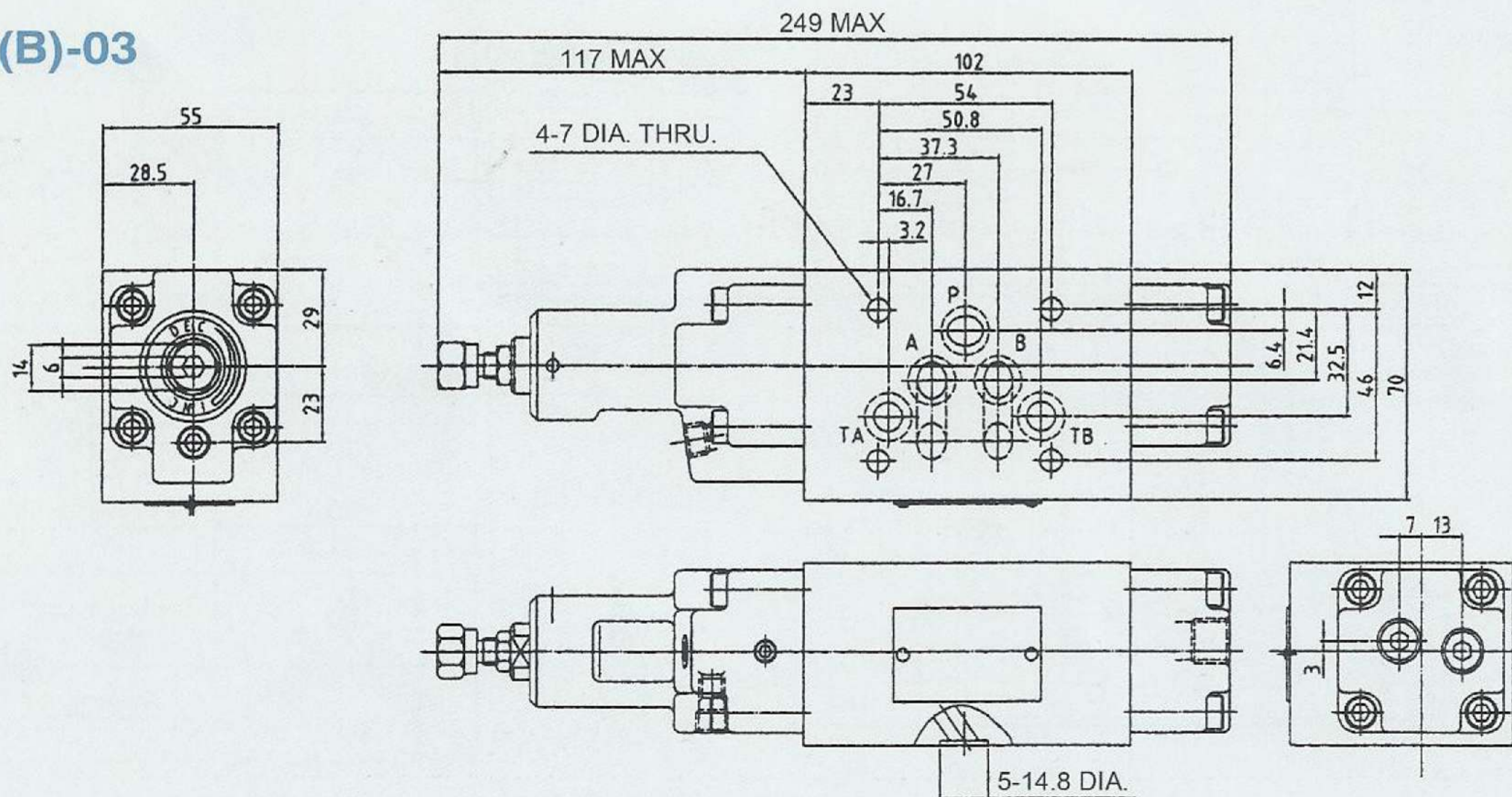
- |   |  |
|---|--|
| 1 | Model  |
| 2 | Control port P: P port A: A port B: B port                     |
| 3 | Nominal valve size 03: 3/8" (CETOP: 5, ISO: 05, NG: 10)        |
| 4 | Pressure adjusting range S: 3~35 bar B: 7~70 bar C: 35~140 bar |
| 5 | Adjustment option None: Tool adjustment K: Hand-bar adjustment |

## Specifications

Model	Max. Operating Pressure (bar)	Pressure Adj. Range (bar)	Max. Flow (lpm)	Weight (kg)
MRP-03	210	S: 3~35	70	4.0
MRA-03		B: 7~70		4.0
MRB-03		C: 35~140		4.0

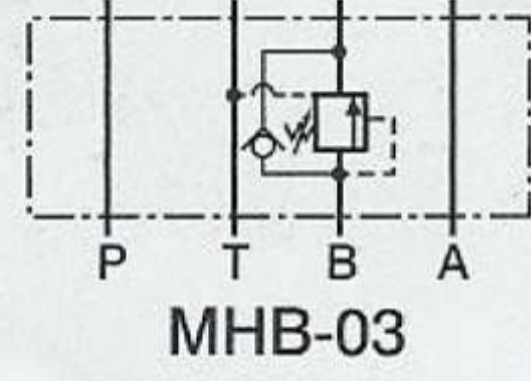
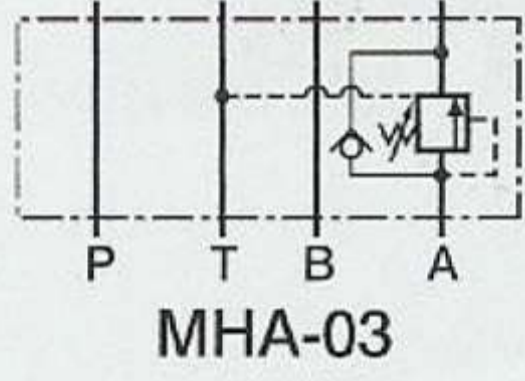
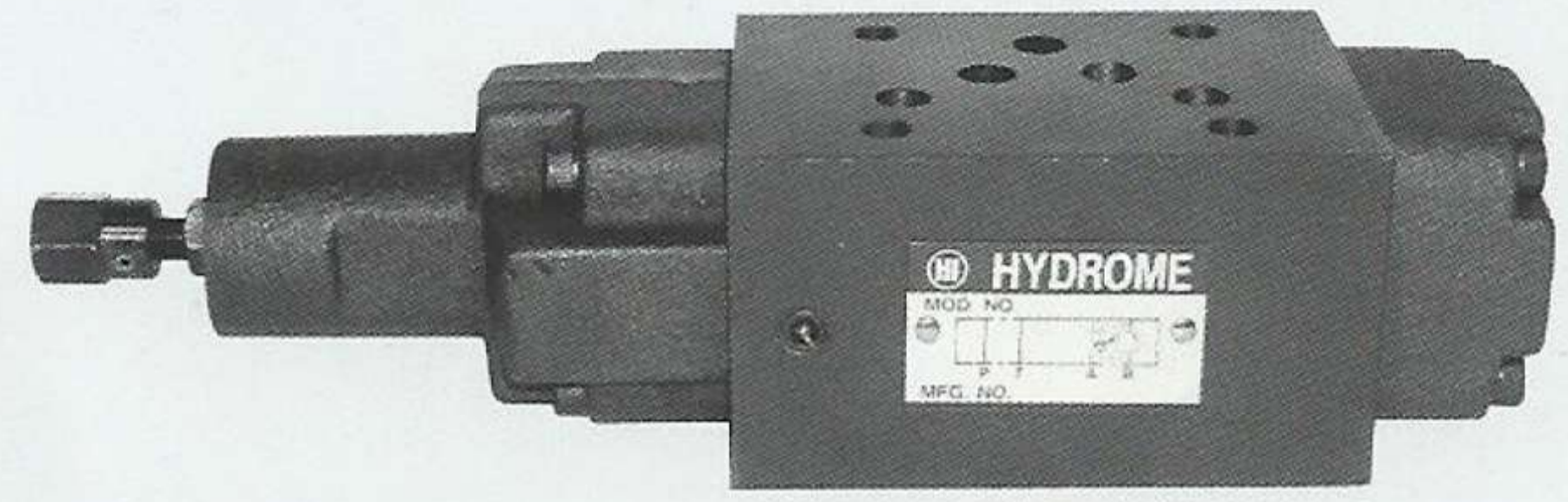
## Dimensions

### MRP(B)-03



Unit: mm

# MODULAR COUNTERBALANCE VALVE



## How to order

**MH A - 03 - ✖ - ✖**

1 2 3 4 5

- 1 Model
- 2 Control port A: A port B: B port
- 3 Nominal valve size 03: 3/8" (GETOP: 5, ISO: 05, NG: 10)
- 4 Pressure adjustment range B: 8~70 bar H: 20~210 bar
- 5 Adjustment option None: Tool adjustment K: Hand-bar adjustment

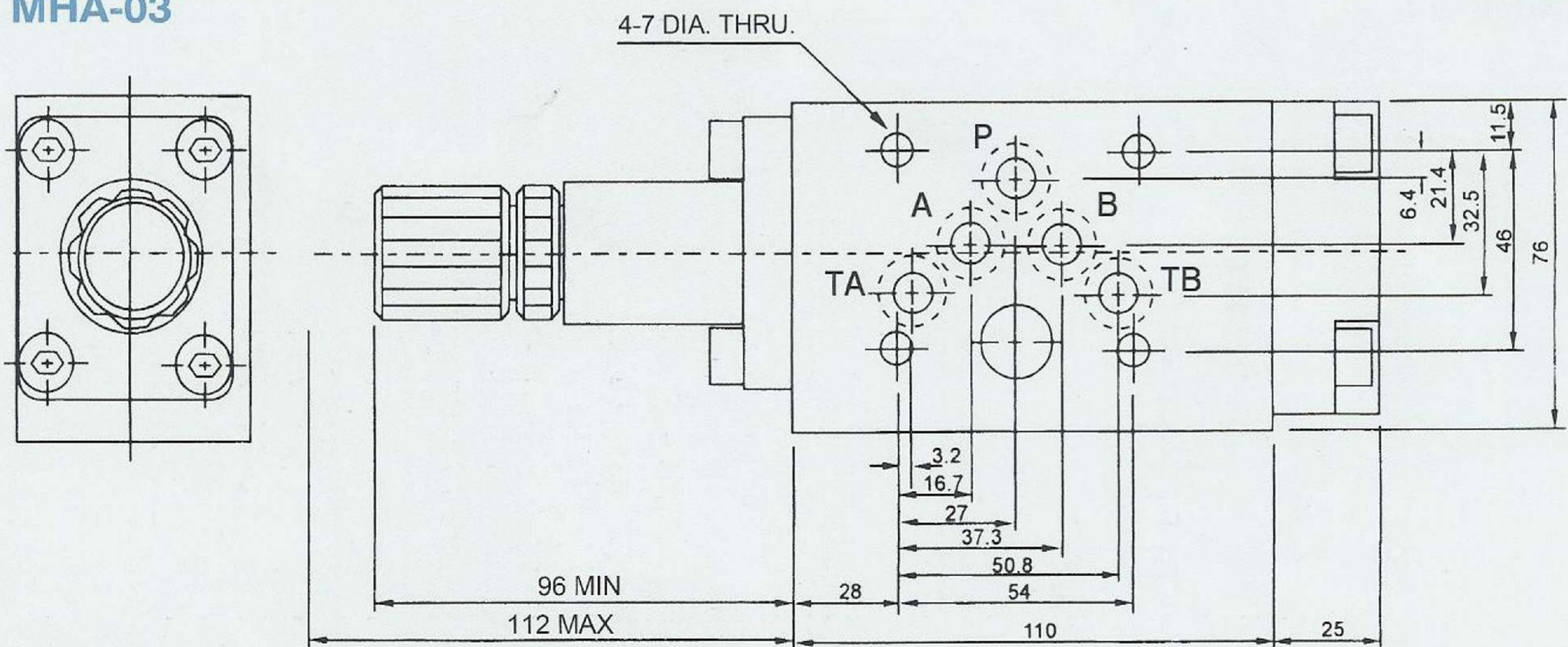
## Specifications

Model	Max. Operating Pressure (bar)	Pressure Adj. Range (bar)	Max. Flow (lpm)	Weight (kg)
MHA-03	230	B: 8~70	70	4.2
MHB-03		H: 20~210		4.2

## Dimensions

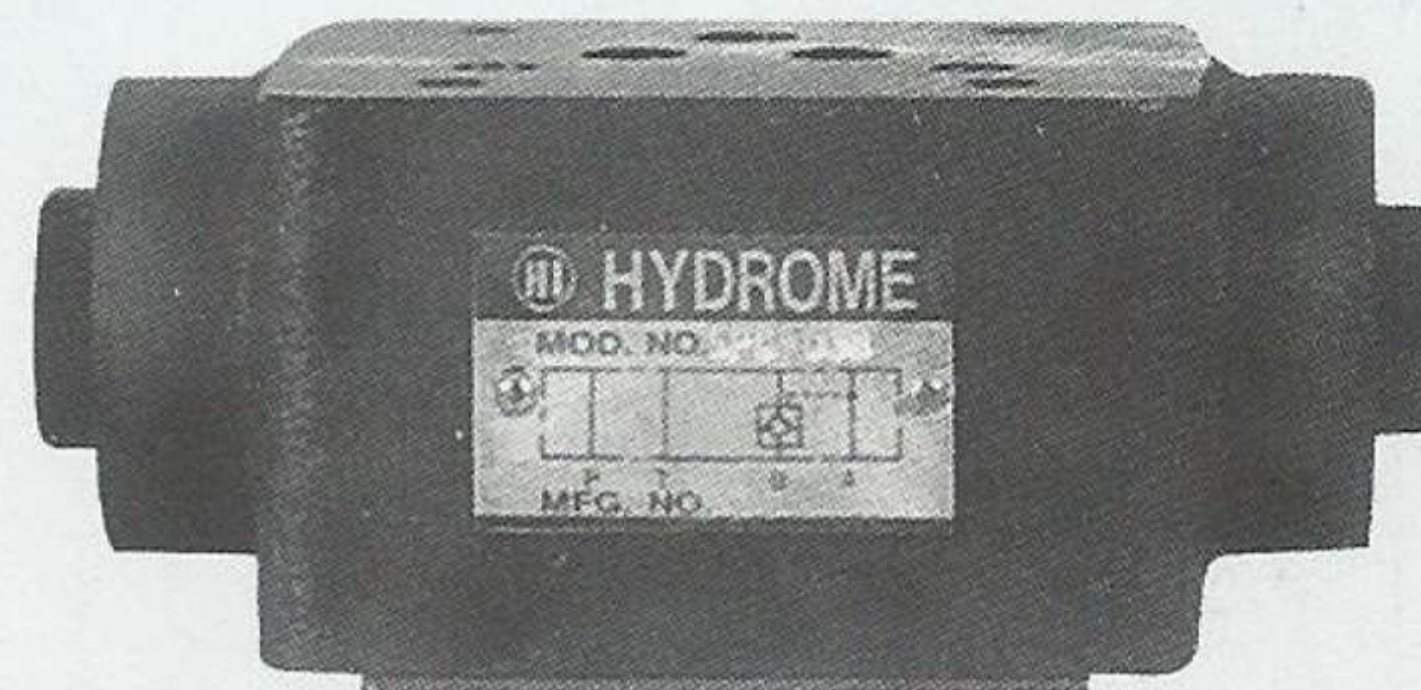
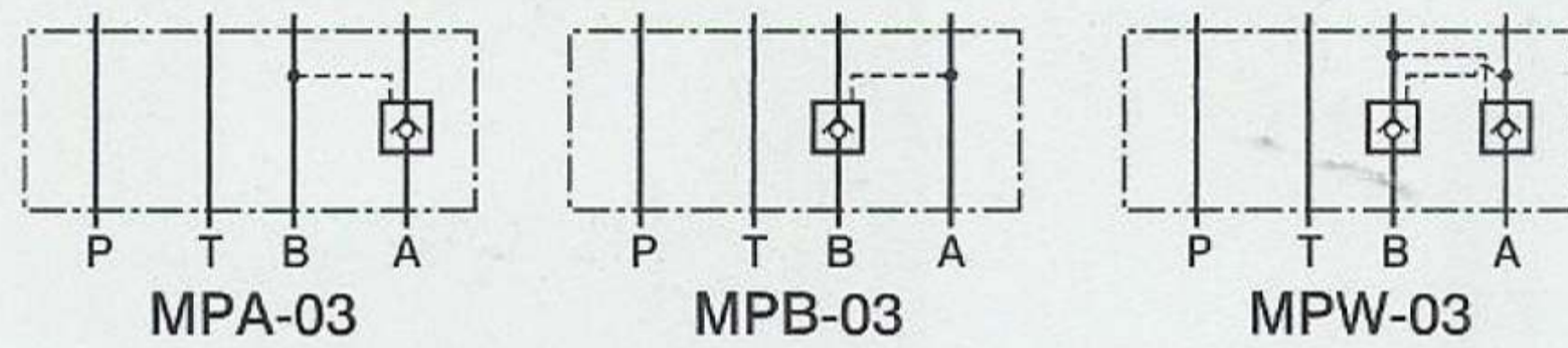
### MHA-03

Unit: mm





# MODULAR PILOT OPERATED CHECK VALVE



## How to order

### MP W - 03

- |   |   |
|---|---|
| 1 | Model   |
| 2 | Control port A: A port B: B port W: A and B ports       |
| 3 | Nominal valve size 03: 3/8" (CETOP: 5, ISO: 05, NG: 10) |

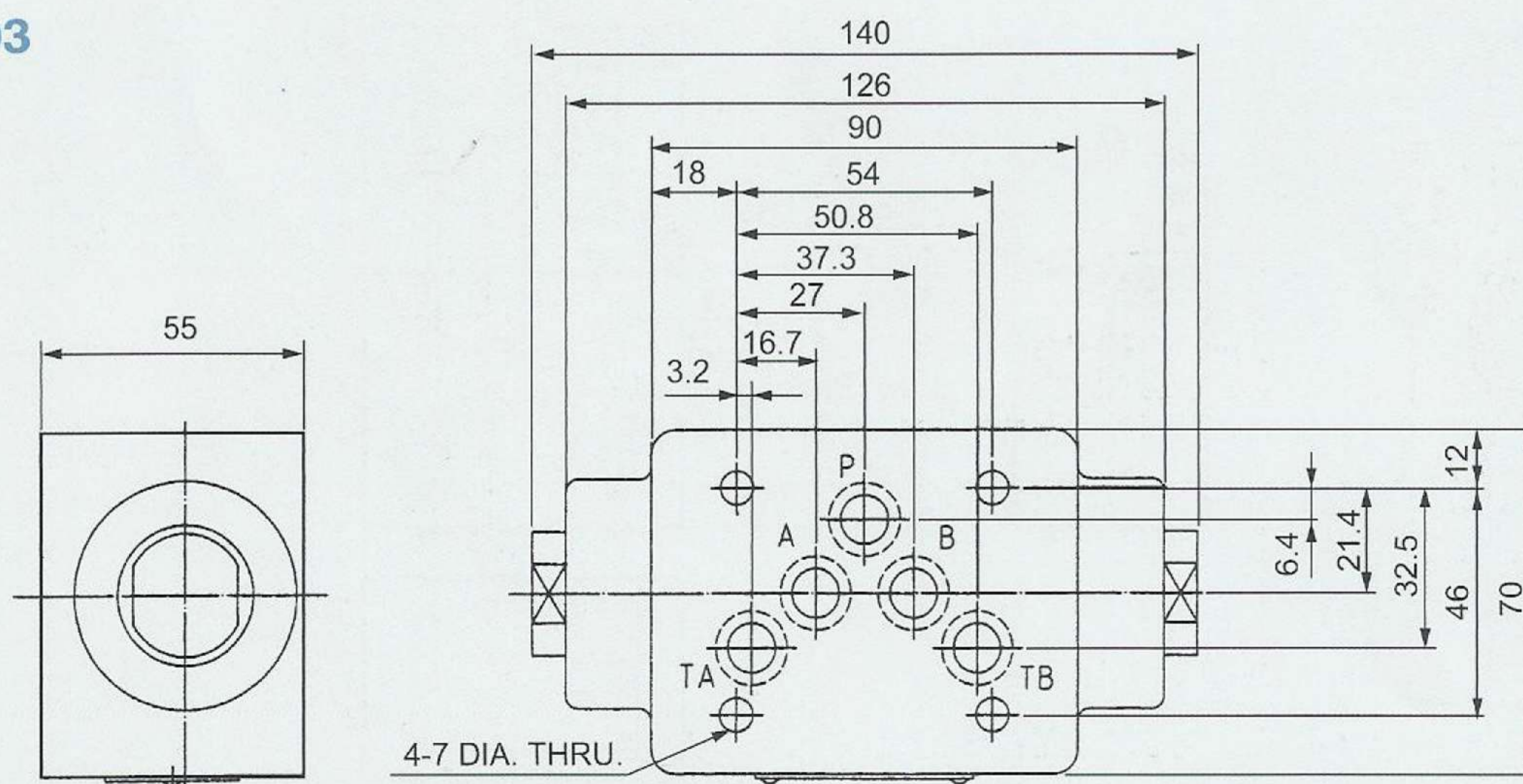
## Specifications

Model	Max. Operating Pressure (bar)	Cracking Pressure (bar)	Max. Flow (lpm)	Weight (kg)
MPA-03	250	2: 2	70	3.0
MPB-03		4: 4		3.0
MPW-03				3.2

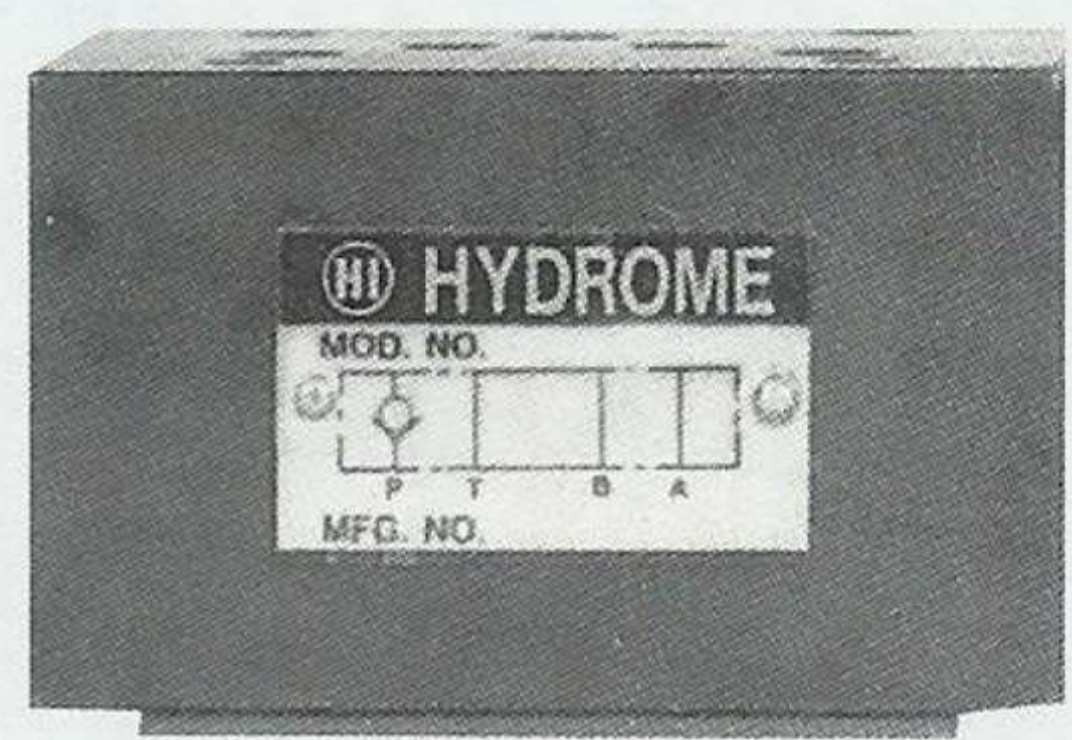
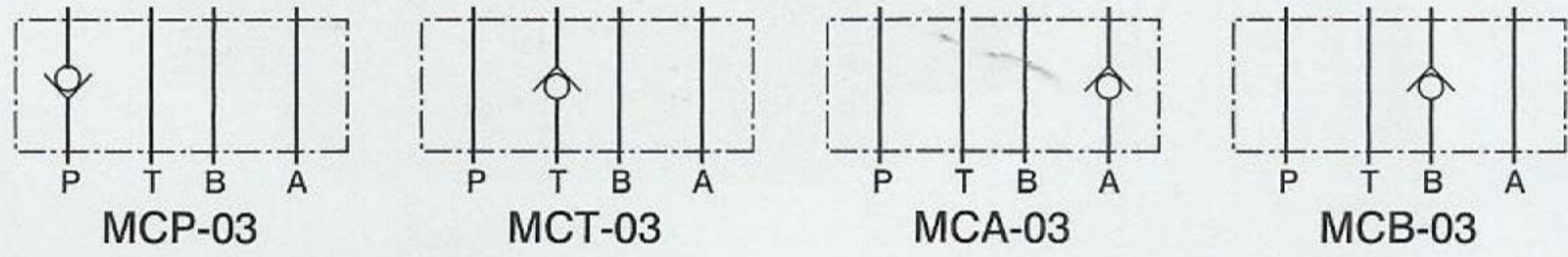
## Dimensions

### MPW-03

Unit: mm



# MODULAR CHECK VALVE



## How to order

**MC P - 03 - ✖**  
 1 2 3 4

- 1 Model
- 2 Control port P: P port T: T port A: A port B: B port
- 3 Nominal valve size 03: 3/8" (CETOP: 5, ISO: 05, NG: 10)
- 4 Cracking pressure 0: 0.35 bar 2: 2 bar

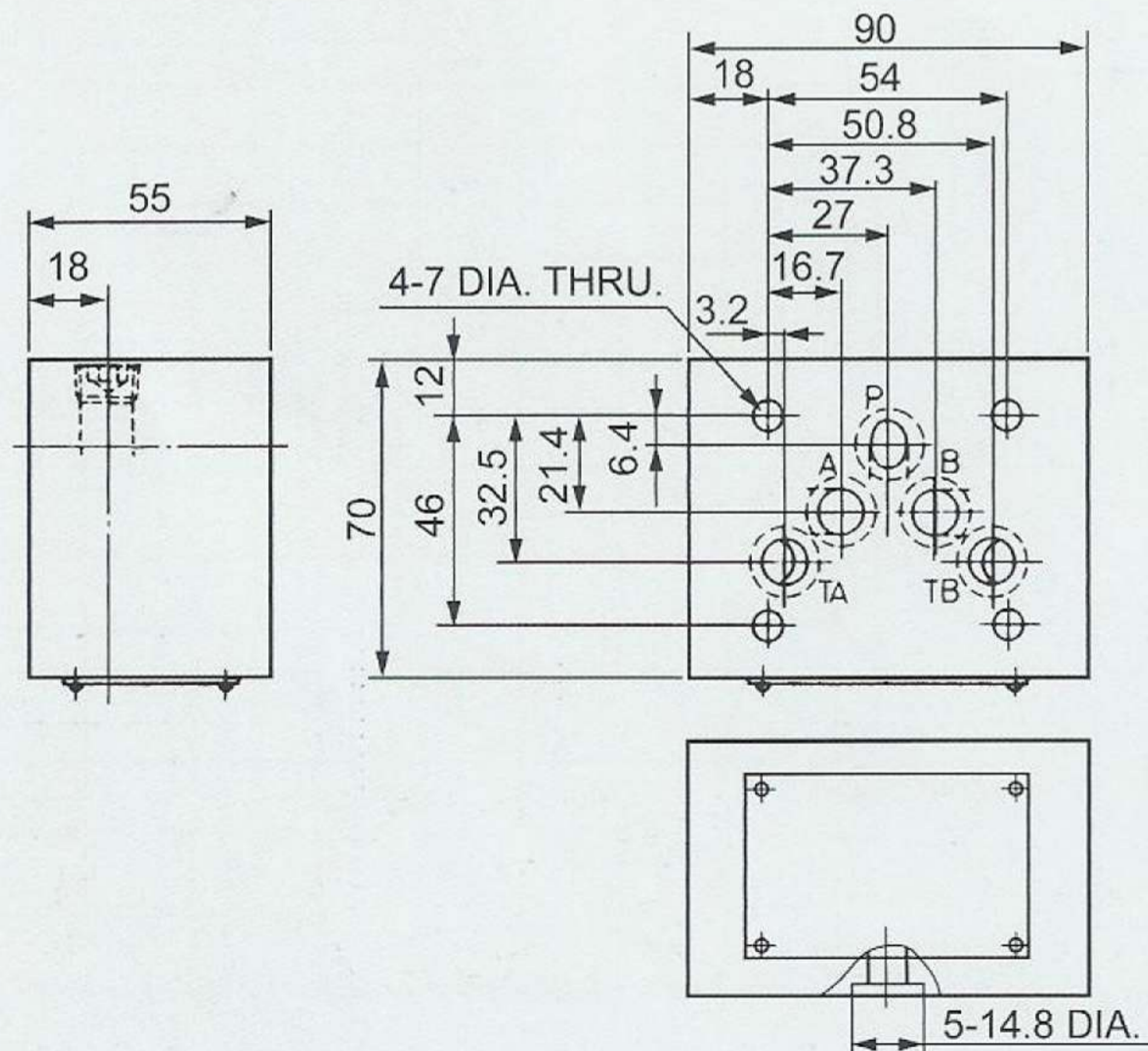
## Specifications

Model	Max. Operating Pressure (bar)	Cracking Pressure (bar)	Max. Flow (lpm)	Weight (kg)
MCP-03	250	0: 0.35	70	2.1
MCT-03				2.1
MCA-03		2: 2		2.8
MCB-03		2.8		

## Dimensions

**MCP-03**

Unit: mm

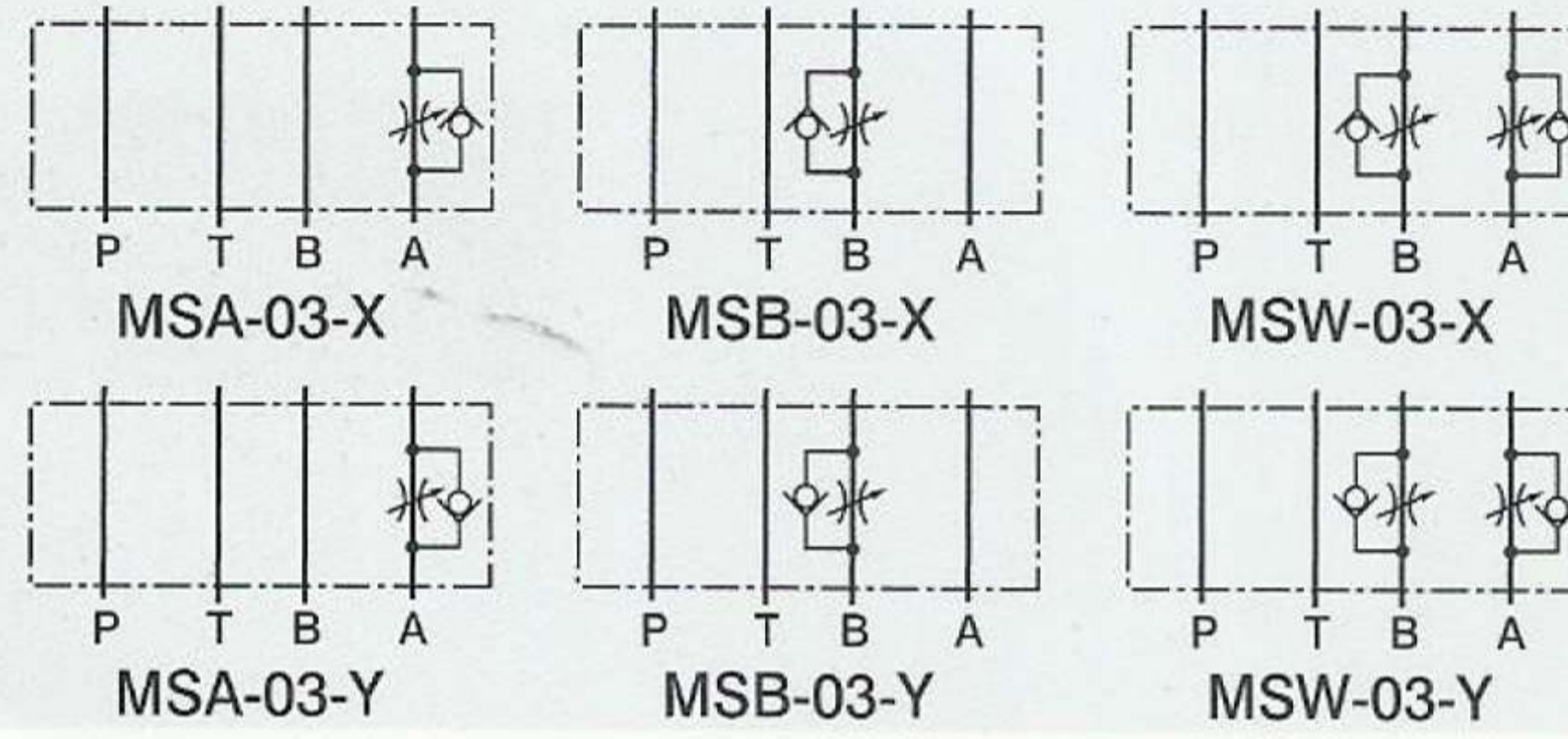


# MODULAR THROTTLE AND CHECK VALVE



## FEATURES:

- Clockwise rotation of the adjusting screw reduces flow rate and counterclockwise rotation increases it.
- Since the valve is of the spool type, oil flow cannot be shut off completely.



## How to order

**MS W - 03 - ✖ - ✖**

1 2 3 4 5

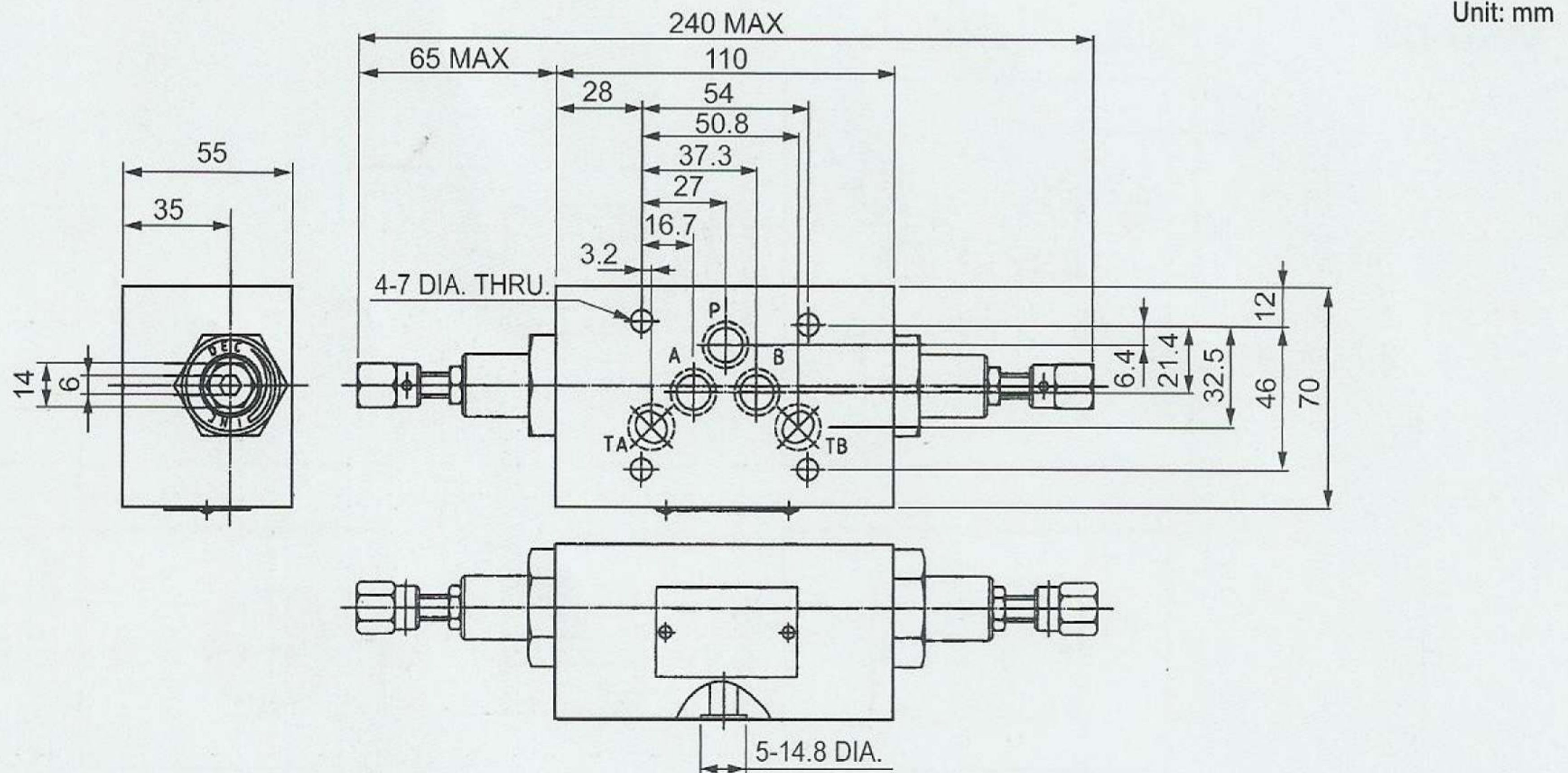
- 1 Model
- 2 Control port A: A port B: B port W: A and B ports
- 3 Nominal valve size 03: 3/8" (CETOP: 5, ISO: 05, NG: 10)
- 4 Control type X: Meter-out Y: Meter-in
- 5 Adjustment option None: Tool adjustment K: Hand-bar adjustment

## Specifications

Model	Max. Operating Pressure (bar)	Flow Adj. Range (lpm)	Max. Flow (lpm)	Weight (kg)
MSA-03	250	0.5~60	70	2.3
MSB-03				2.3
MSW-03				3.1

## Dimensions

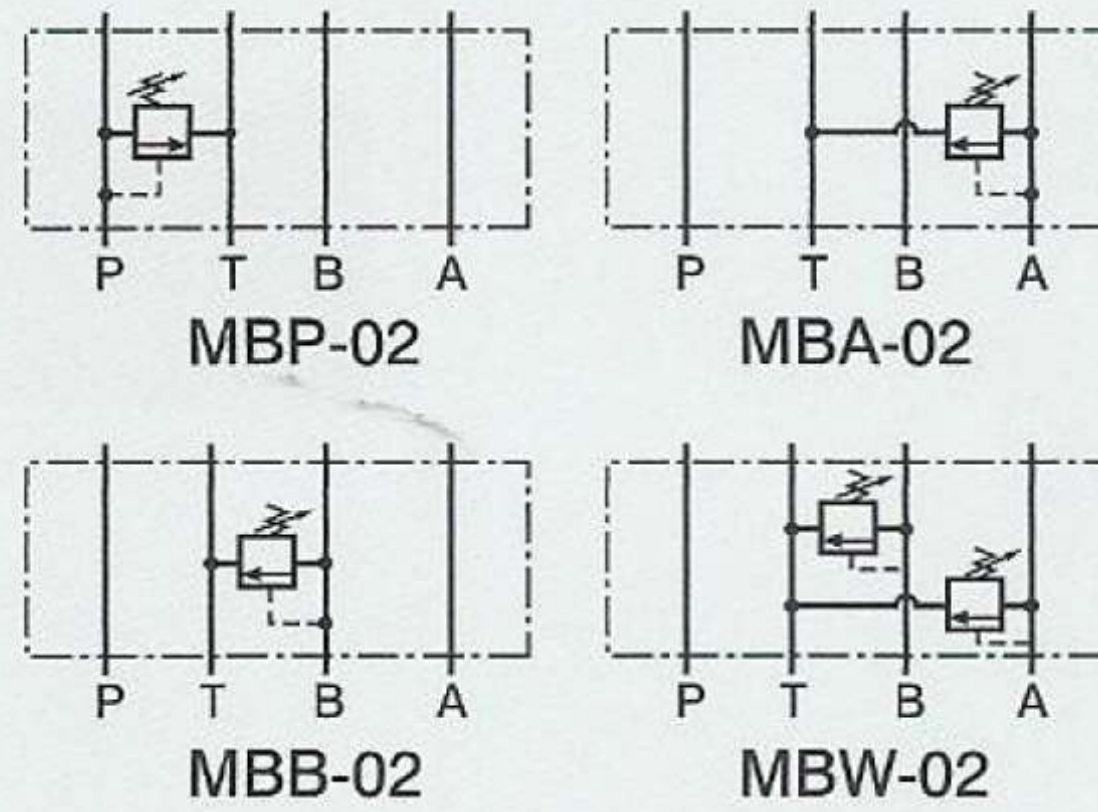
### MSA-03



# MODULAR RELIEF VALVE

## FEATURES:

- Back pressure in tank port should be as low as possible. (under 5 bar)
- In case the valves are used as safety valves, pressure setting should be higher than max. circuit pressure by 10~15 bar.



## How to order

**MB** **P** - **02** - **✱** - **✱**

- |   |   |
|---|---|
| 1 | Model   |
| 2 | Control port P: P port A: A port B: B port W: A and B ports     |
| 3 | Nominal valve size 02: 1/4" (CETOP: 3, ISO: 03, NG: 6)          |
| 4 | Pressure adjusting range B: 7~70 bar C: 7~140 bar H: 10~230 bar |
| 5 | Adjustment option None: Tool adjustment K: Hand-bar adjustment  |

## Specifications

Model	Max. Operating Pressure (bar)	Pressure Adj. Range (bar)	Max. Flow (lpm)	Weight (kg)
MBP-02	250	B: 7~70	35	1.4
MBA-02		C: 7~140		1.4
MBB-02		H: 10~230		1.4
MBW-02				2

## Dimensions

### MBP-02, MBA-02, MBB-02

Unit: mm

