STEED
HYDRAULIC TECHNOLOGY

Modular Hydraulic Valve

Modular Relief Valve
Modular Reducing Valve
Modular Counter Balance Valve
Modular Flow Control Valve
Modular Flow Control Valve w/ Pressure & Temperature Compensated
Solenoid Modular Flow Control Valve
Modular Check Valve
Modular Pilot Operated Check Valve



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MBRV 09

Modular Counter Balance Valve

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Modular Flow Control Valve

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Modular Flow Control Valve w/ Pressure & Temperature Compensated

MOCF 20

Solenoid Modular Flow Control Valve

MST 22

Modular Check Valve

MCV 24

Modular Pilot Operated Check Valve

MPCV 26

Modular Motor Brake Valve

MRV-D 29

Technical Info.

FEATURES

1. Rugged Steel Body Designs :

Designed for high cycle and quick response applications.

2. Uniform Height :

Valve body thickness is the same for each series and provides a clean, neat uniform appearance. This also reduces the number of bolt kits.

3. Better Performance :

Modular valving eliminates leaky connections, reduces plumbing costs and places controls together.

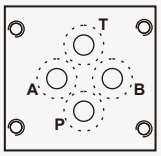
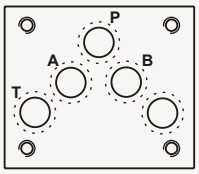
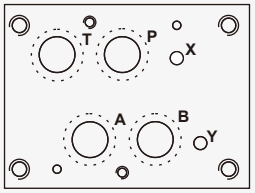
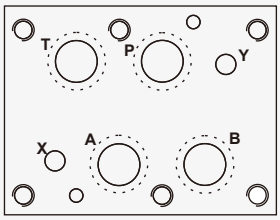
4. Space Savings :

Manifold mounted control circuits greatly reduce space requirements from conventional line mounted valves.

5. Adjustment :

Hand knobs with locknuts provided standard-tools are not required for adjustments.

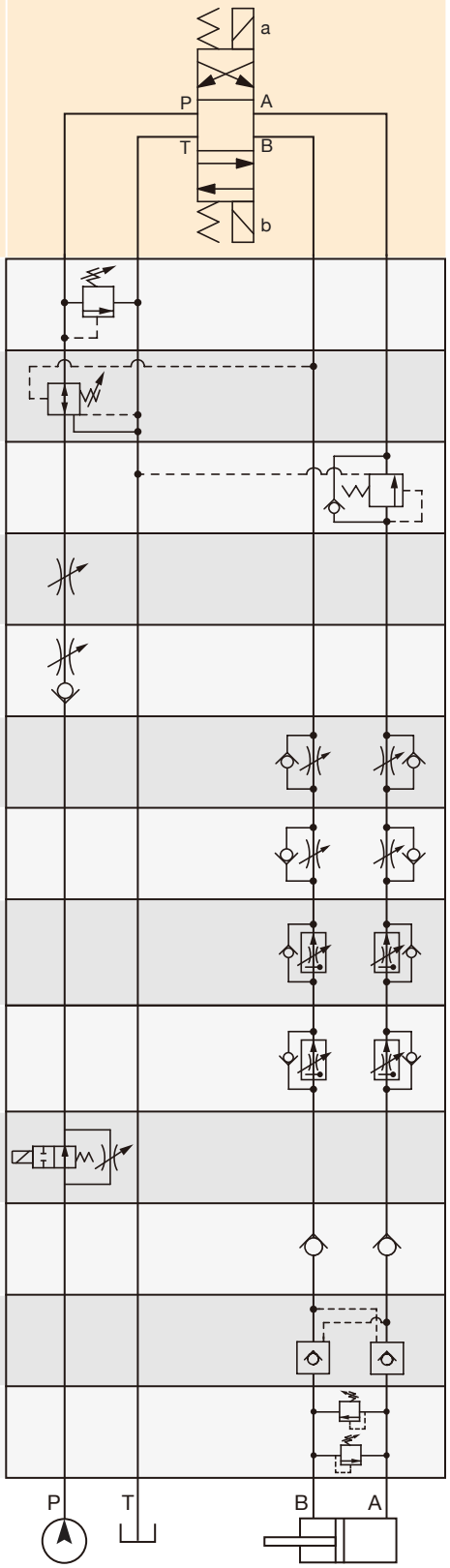
SPEC.

Size	02	03	04	06
Mounting Surfaces: General Patterns				
Mounting Surface	ISO 4401-03 cetop-03	ISO 4401-05 cetop-05	ISO 4401-07 cetop-07	ISO 4401-08 cetop-08
Normal Flow Rate	19 l/min (5 gpm)	45 l/min (12 gpm)	76 l/min (20 gpm)	130 l/min (35 gpm)
Max. Pressure	210 kgf/cm^2			
Operating Temperature	5~70 ˚C			
Viscosity of fluid	17 ~ 65 Cst			
Operating Filtering Fineness	25 micron or less (ISO 18/15)			
Recommended Fluids	Petroleum Based Fluids - ISO VG32-68			

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MODULAR VALVE TYPE

Page No.	Model No.	Valve Sizes				Function	Symbols
		02	03	04	06		
06	MRV	○	○	○	○	Modular relief valve	
09	MBRV	○	○	○	○	Modular reducing valve	
12	MSCV	○	○	-	-	Modular Counter Balance Valve	
14	MTV	○	○	-	-	Modular Flow Control Valve	
14	MTCV-P	○	○	-	-	Modular Flow Control Valve	
16	MTCV-W (Metre-out)	○	○	○	○	Modular Flow Control and Check Valve	
16	MTCV-W (Metre-in)	○	○	○	○	Modular Flow Control and Check Valve	
20	MOCF-W (Metre-out)	○	○	-	-	Modular Flow Control Valve w/ Pressure & Temperature Compensated	
20	MOCF-W (Metre-in)	○	○	-	-	Modular Flow Control Valve w/ Pressure & Temperature Compensated	
22	MST	○	○	-	-	Solenoid Modular Flow Control Valve	
24	MCV	○	○	-	-	Modular Check Valve	
26	MPCV	○	○	○	○	Modular Pilot Operated Check Valve	
29	MRV-D	○	-	-	-	Modular Motor Brake Valve	



MRV



MRV-02



MRV-03

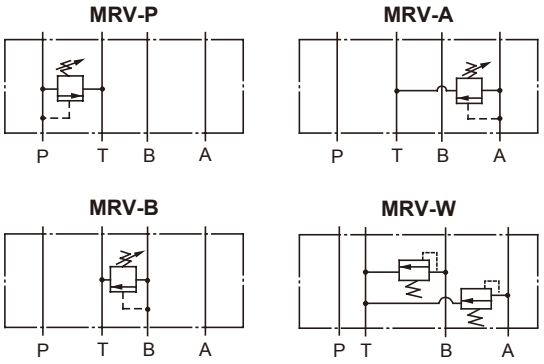


MRV-04



MRV-06

SYMBOLS



ORDER CODES

MRV - 02 - P - 1

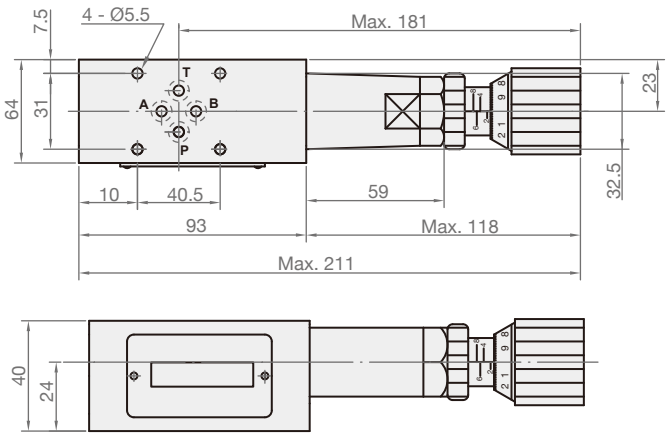
1	Model Name	MRV	
2	Thread Connection	02	1/4"
		03	3/8"
		04	1/2"
		06	3/4"
3	Action Form	P	
		A	
		B	
		W	
4	Pressure Adj. Range	1	7~70 kgf/cm^2
		2	35~140 kgf/cm^2
		3	70~210 kgf/cm^2

MODEL SPEC.

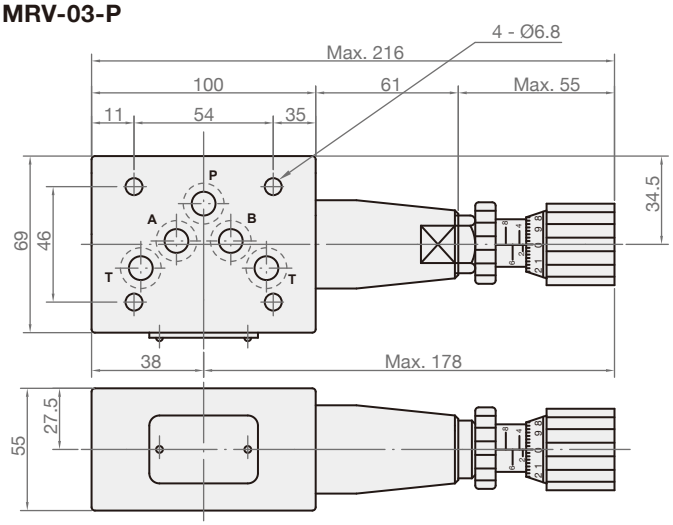
Model	Max. Pressure (kgf/cm^2)	Pressure Adj. Range (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MRV-02-P, A, B	210	1: 7~70 2: 35~140 3: 70~210	35	1.7
MRV-02-W			35	2.5
MRV-03-P, A, B			70	3.2
MRV-03-W			70	4.5
MRV-04-P, A, B			160	6.7
MRV-06-P, A, B			200	11.0

DIMENSION (UNIT : mm)

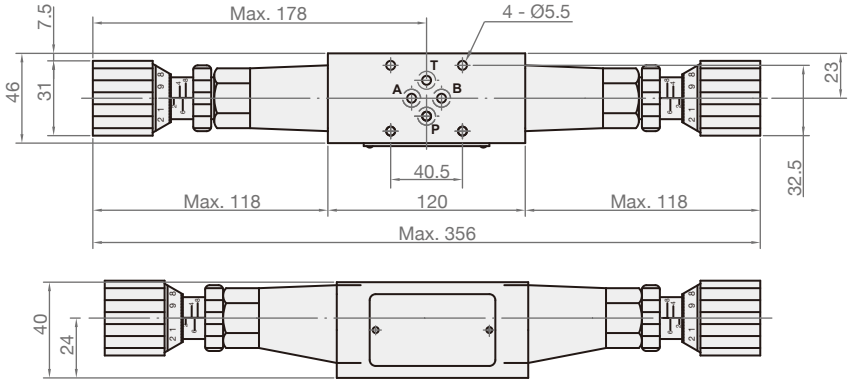
▸ MRV-02-P



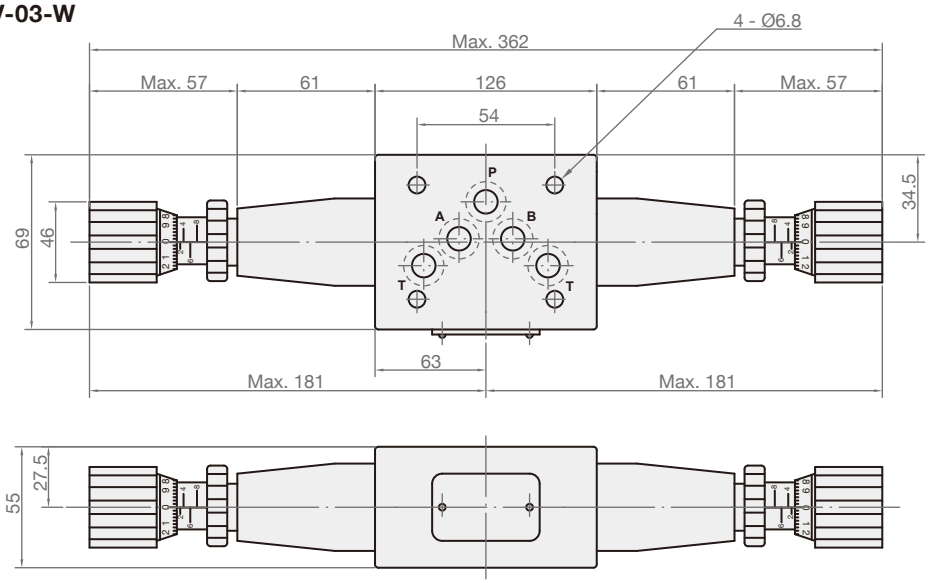
▸ MRV-03-P



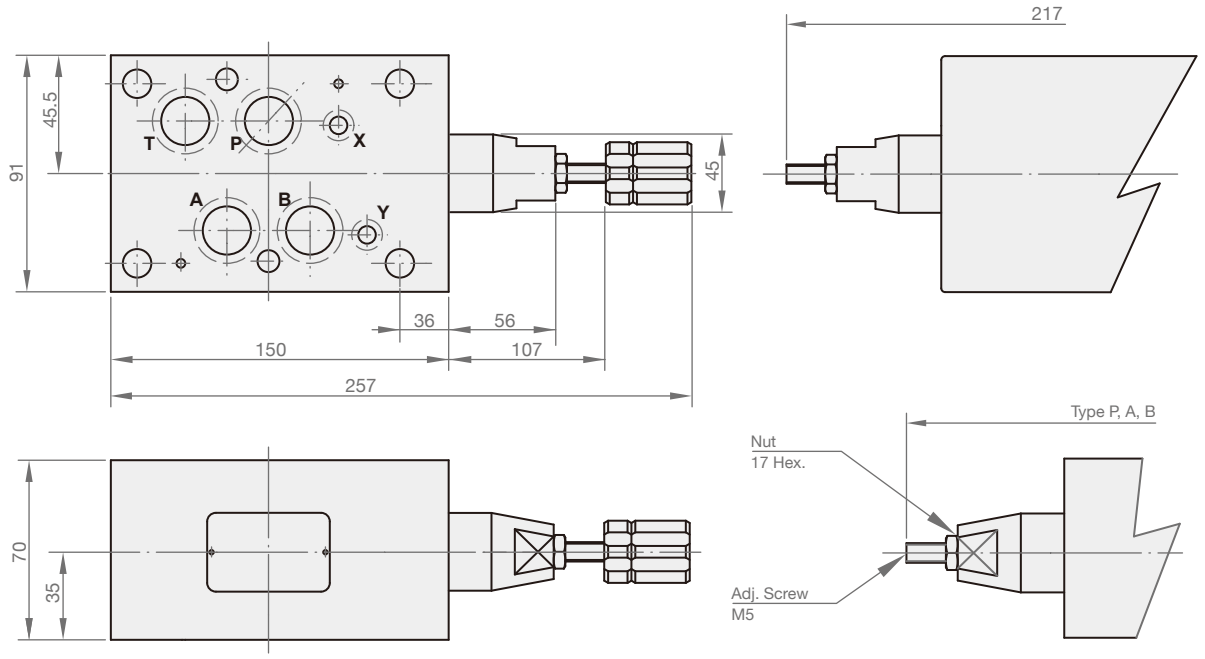
▸ MRV-02-W



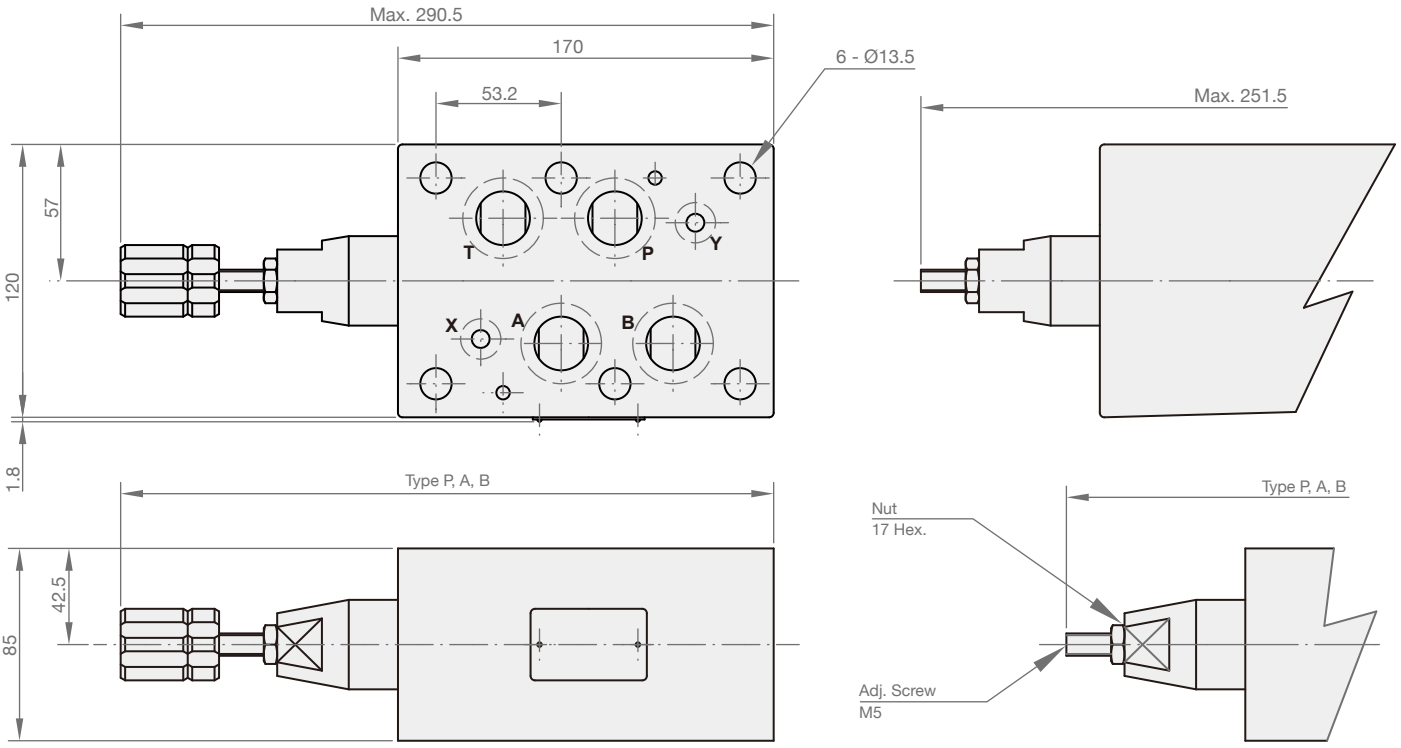
▸ MRV-03-W



▸ MRV-04


217
45.5
91
T
P
X
A
B
Y
45
36
56
150
107
257
70
35
Type P, A, B
Nut
17 Hex.
Adj. Screw
M5

▸ MRV-06


Max. 290.5
170
53.2
6 - Ø13.5
Max. 251.5
57
120
T
P
Y
X
A
B
1.8
Type P, A, B
42.5
85
Nut
17 Hex.
Type P, A, B
Adj. Screw
M5

MBRV

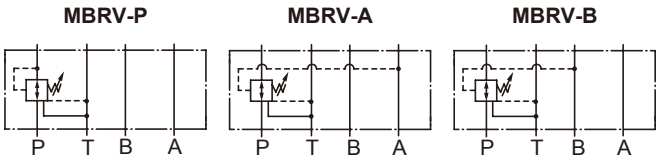

MBRV-02


MBRV-03


MBRV-04


MBRV-06

SYMBOLS



ORDER CODES

MBRV - 02 - A - 1
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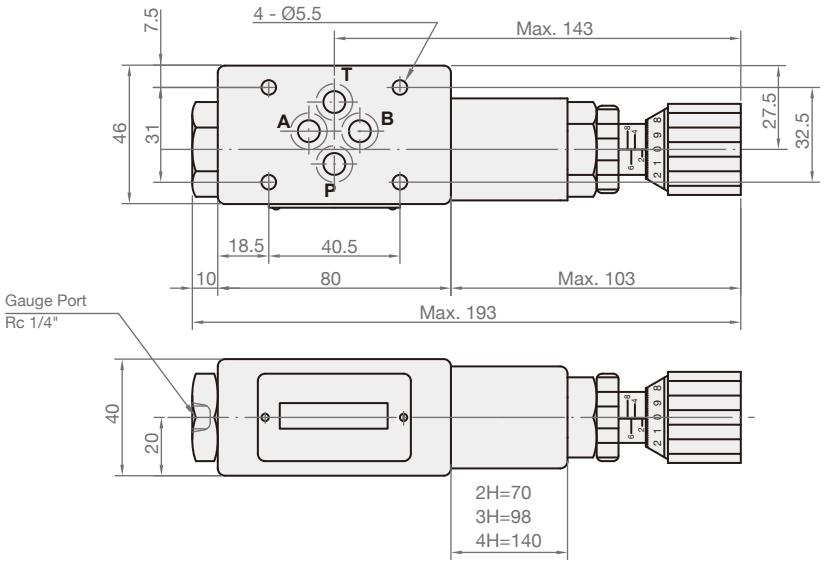
1 ▸	Model Name	MBRV	
2 ▸	Thread Connection	02	1/4"
		03	3/8"
		04	1/2"
		06	3/4"
3 ▸	Action Form	P	
		A	
		B	
4 ▸	Pressure Adj. Range	0	3~30 kgf/cm^2
		1	8~70 kgf/cm^2
		2	35~140 kgf/cm^2
		3	70~210 kgf/cm^2

MODEL SPEC.

Model	Max. Pressure (kgf/cm^2)	Pressure Adj. Range (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MBRV-02	210	0: 3~30 1: 8~70 2: 35~140 3: 70~210	35	1.3
MBRV-03			70	3.3
MBRV-04		1: 8~70 2: 35~140 3: 70~210	120	7.7
MBRV-06			180	11.0

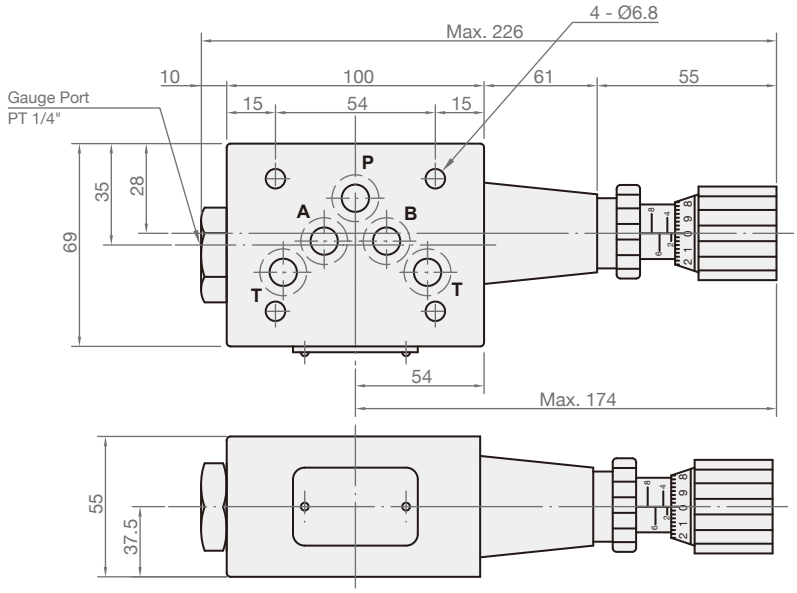
DIMENSION (UNIT : mm)

▸ MBRV-02



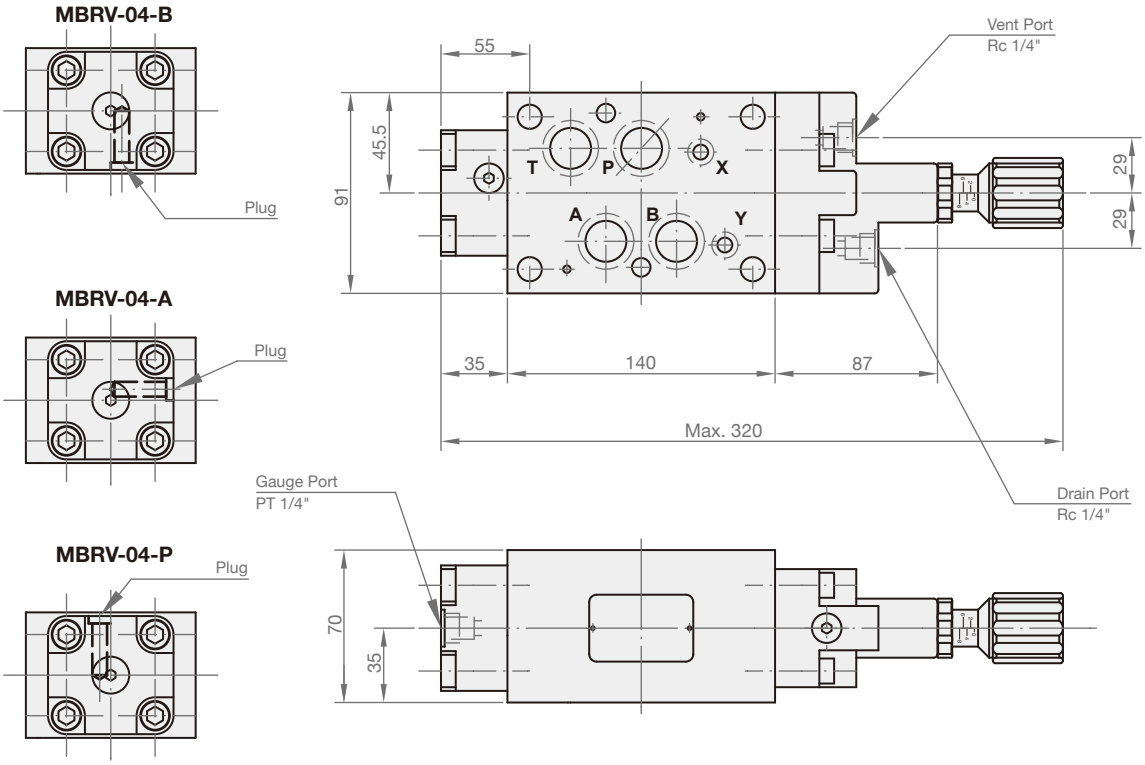


▸ MBRV-03

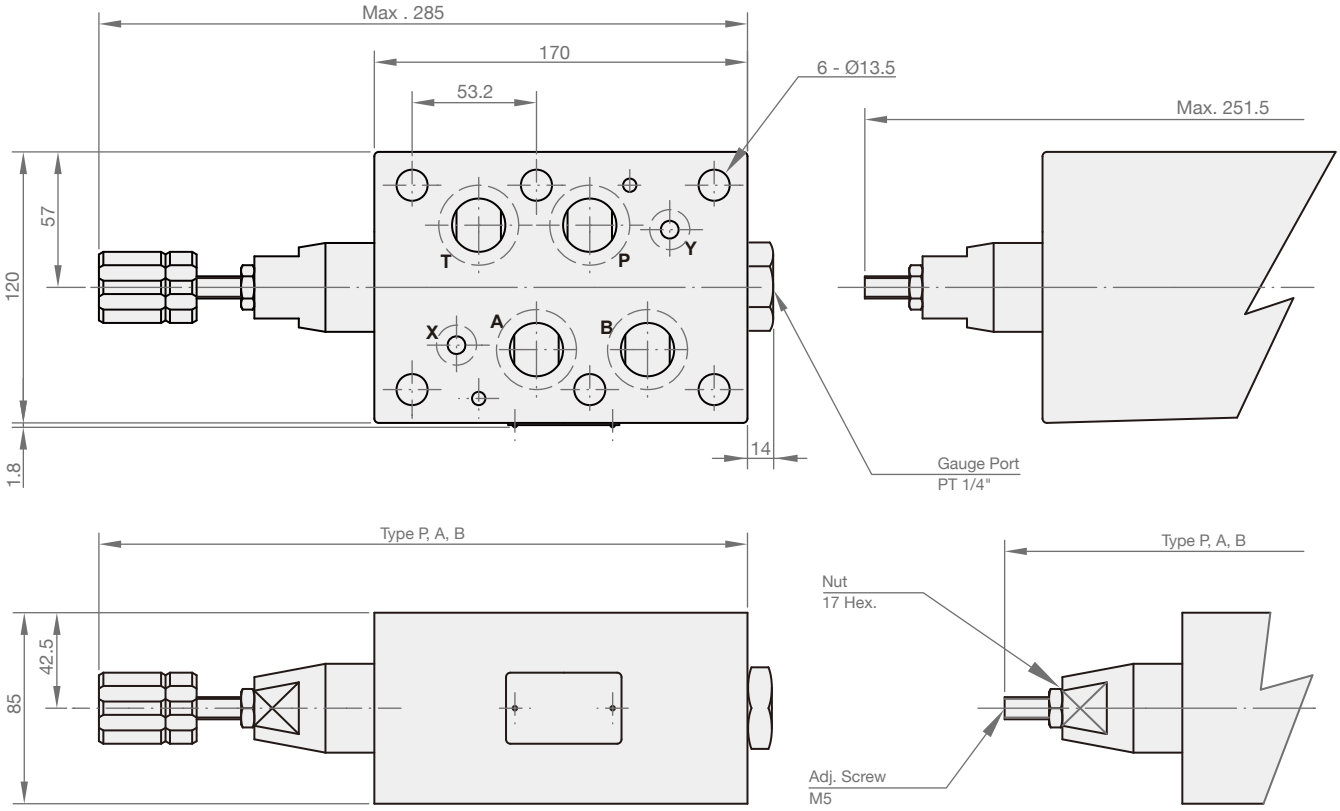


DIMENSION (UNIT : mm)

▸ MBRV-04



▸ MBRV-06



MSCV



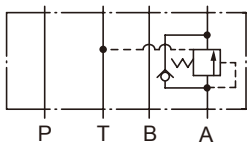
MSCV-02



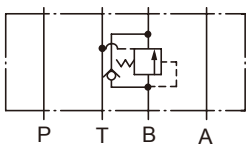
MSCV-03

SYMBOLS

MSCV-A



MSCV-B



ORDER CODES

MSCV - 02 - B - 2

1 2 3 4

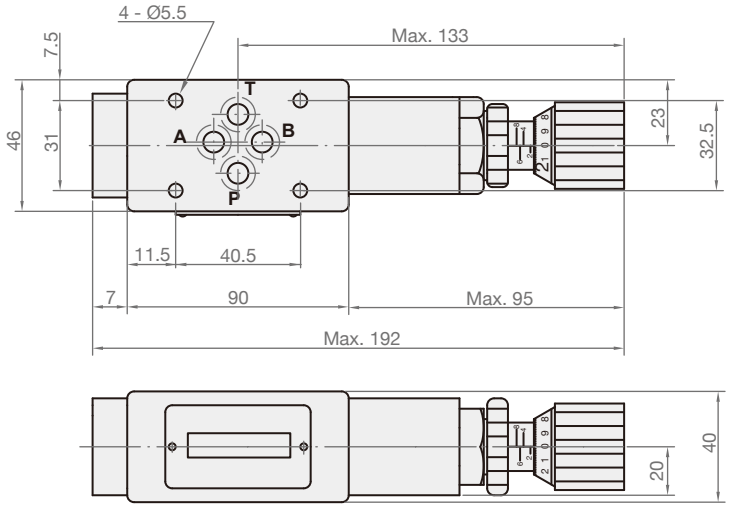
1 ▸	Model Name	MSCV	
2 ▸	Thread Connection	02	1/4"
		03	3/8"
3 ▸	Action Form	A	
		B	
4 ▸	Pressure Adj. Range	1	8~70 kgf/cm^2
		2	35~140 kgf/cm^2
		3	70~210 kgf/cm^2

MODEL SPEC.

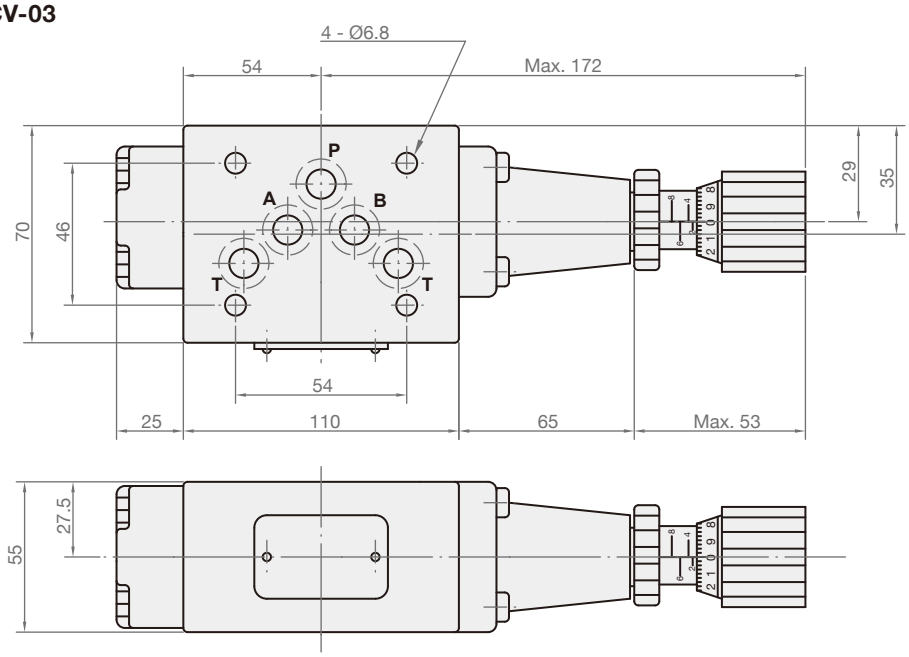
Model	Max. Pressure (kgf/cm^2)	Pressure Adj. Range (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MSCV-02	210	1: 8~70 2: 35~140 3: 70~210	35	1.5
MSCV-03			70	4.1

DIMENSION (UNIT : mm)

▸ MSCV-02



▸ MSCV-03



MTV, MTCV-P

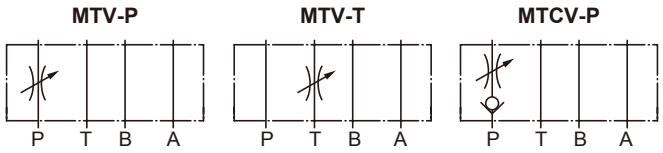


MTV-02-P, T
MTCV-02-P



MTV-03-P, T
MTCV-03-P

SYMBOLS



ORDER CODES

MTV - 02 - P
1 2 3

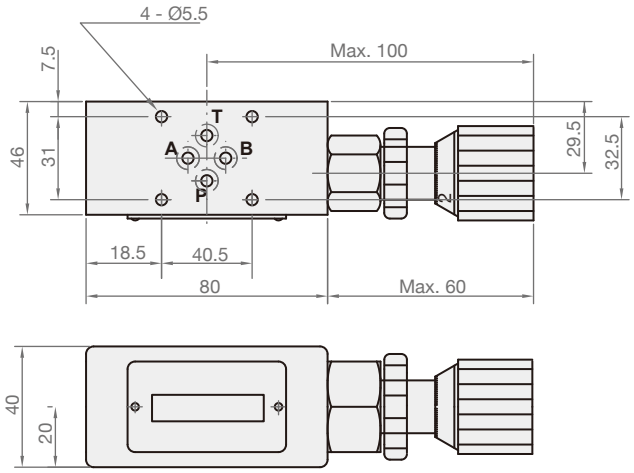
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		MTCV	
2	Thread Connection	02	1/4"
		03	3/8"
3	Action Form	P	
		T	

MODEL SPEC.

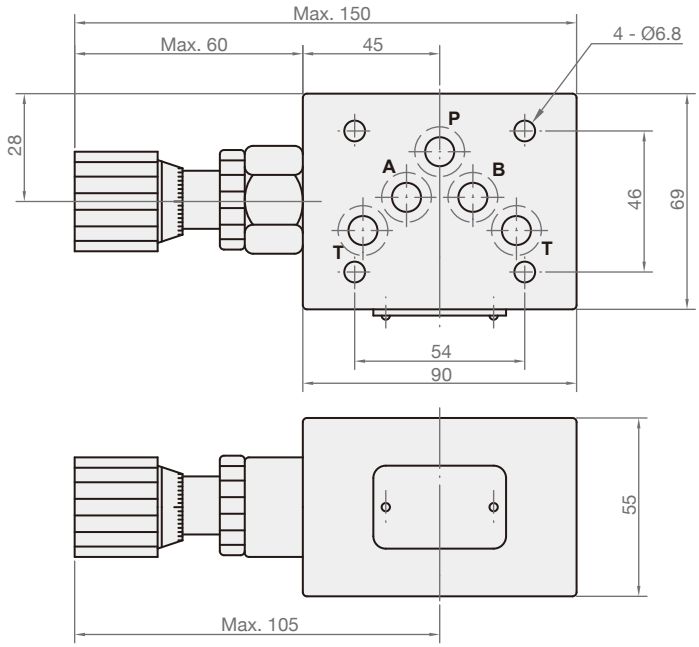
Model	Max. Pressure (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MTV-02-P, T MTCV-02-P	210	35	1.1
MTV-03-P, T MTCV-03-P		70	2.6

DIMENSION (UNIT : mm)

▸ MTV-02, MTCV-02-P



▸ MTV-03, MTCV-03-P



MTCV



MTCV-02



MTCV-03

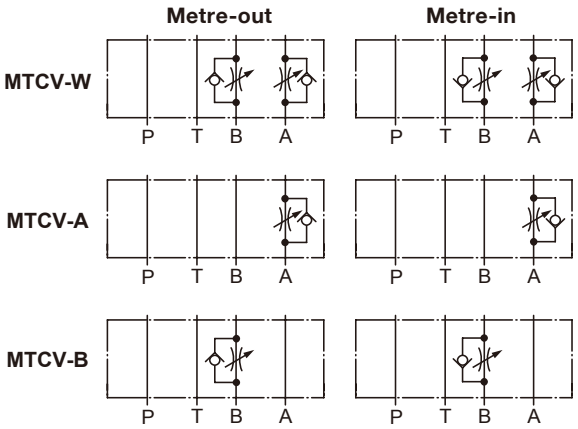


MTCV-04



MTCV-06

SYMBOLS



ORDER CODES

MTCV - 02 - W - I - 05

1 2 3 4 5

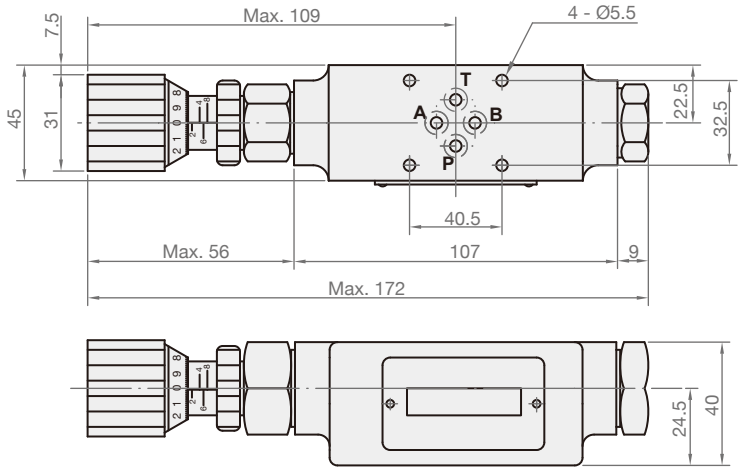
1	Model Name	MTCV	
2	Thread Connection	02	1/4"
		03	3/8"
		04	1/2"
		06	3/4"
3	Action Form	A	
		B	
		W	
4	Moving Direction	none	Out
		I	In
5	Checking Pressure	05	0.5 kgf/cm^2
		50	2.5 kgf/cm^2

MODEL SPEC.

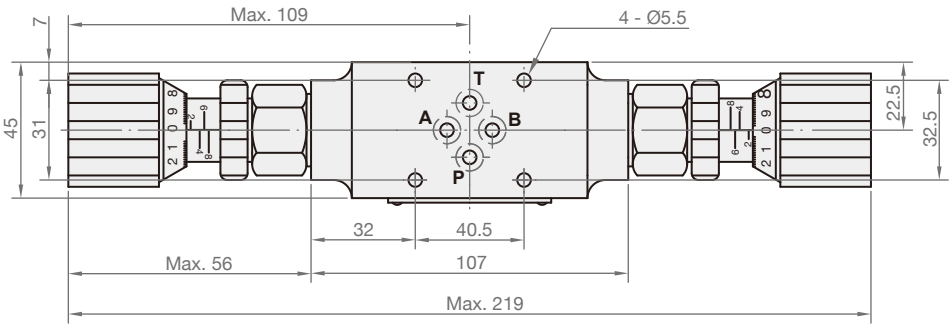
Model	Max. Pressure (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MTCV-02	210	35	1.4
MTCV-03		70	3.0
MTCV-04		120	6.0
MTCV-06		180	12.5

DIMENSION (UNIT : mm)

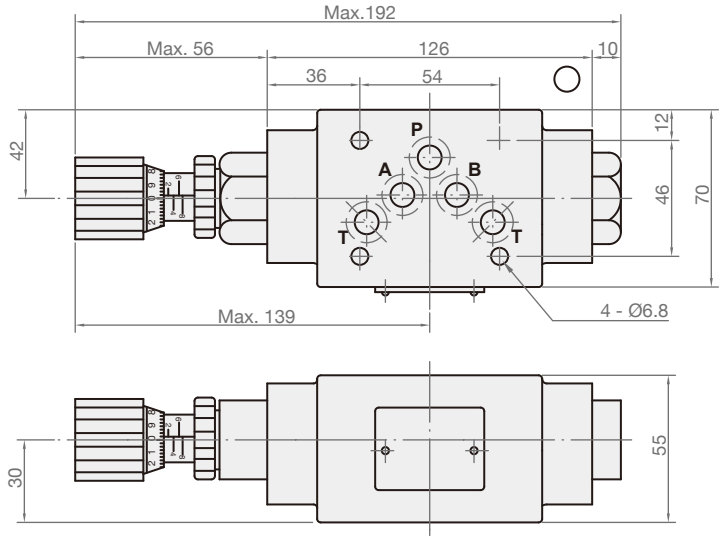
▸ MTCV-02-A, B



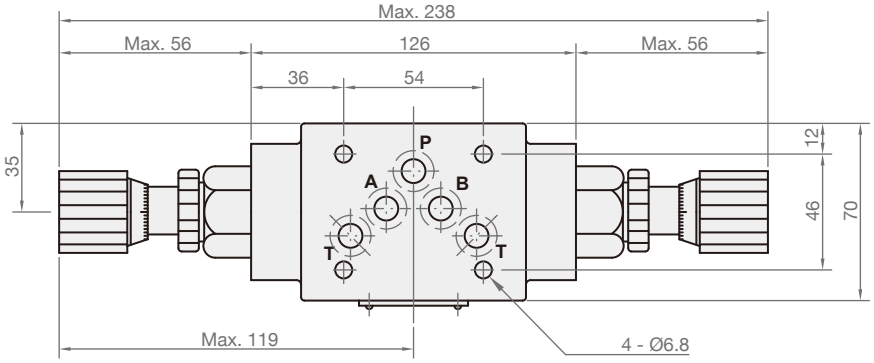
▸ MTCV-02-W



▸ MTCV-03-A, B

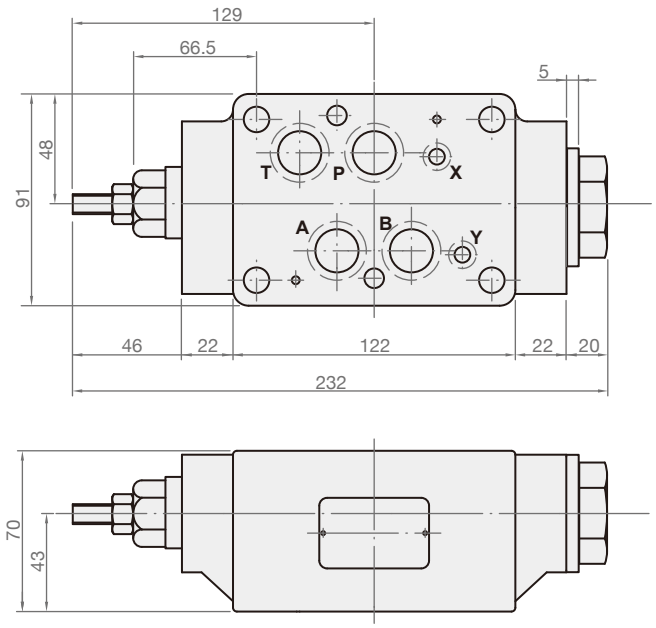


▸ MTCV-03-W

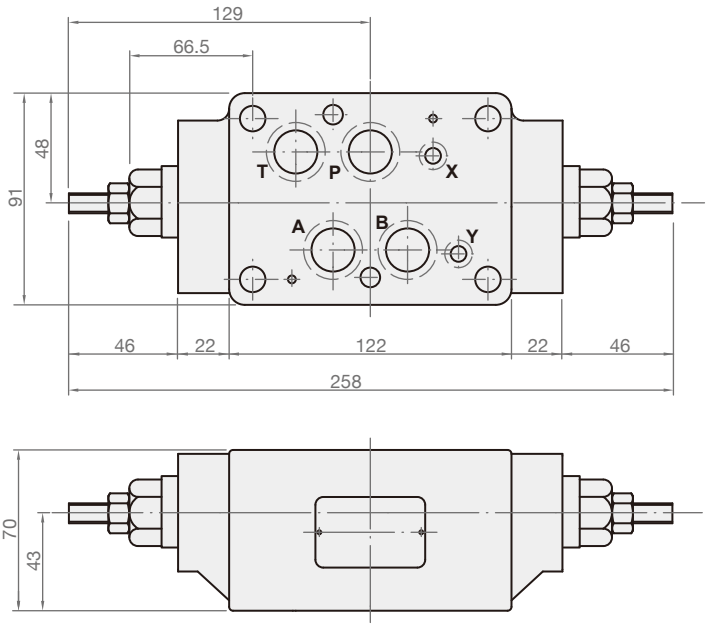


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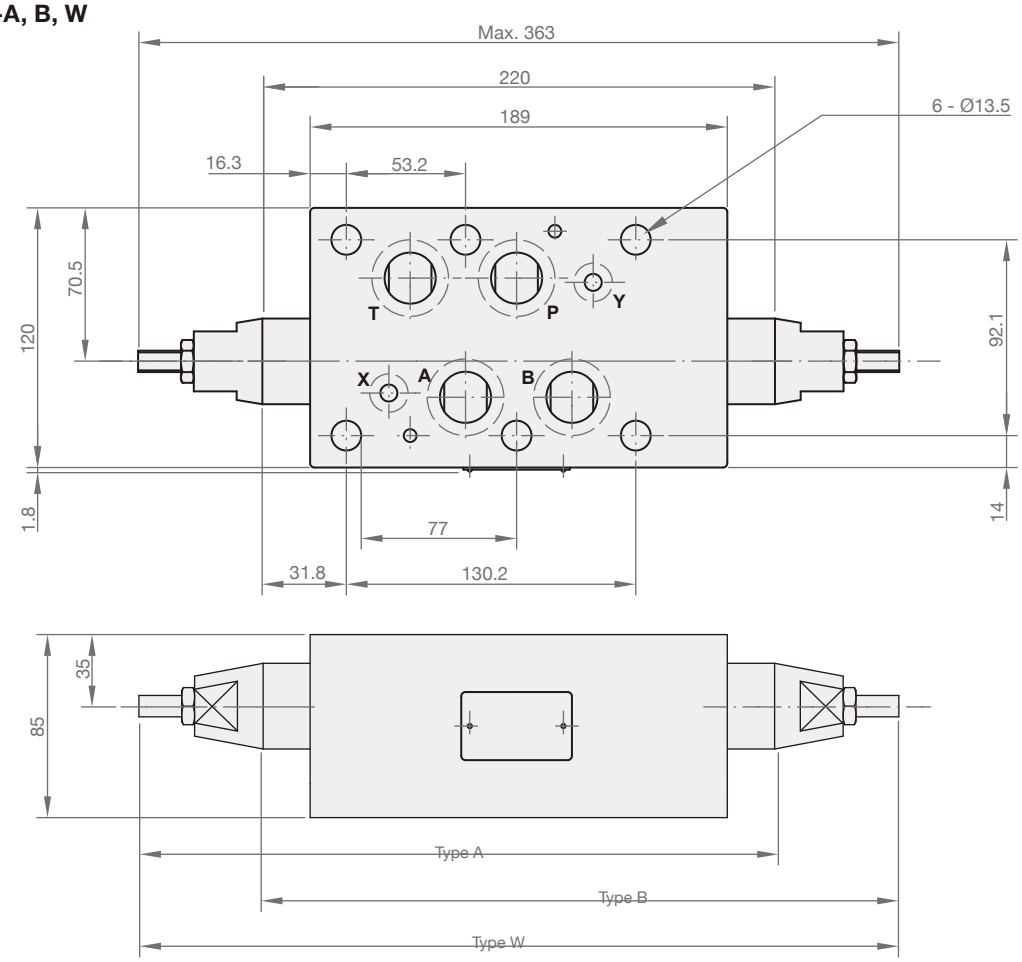
▸ MTCV-04-A, B

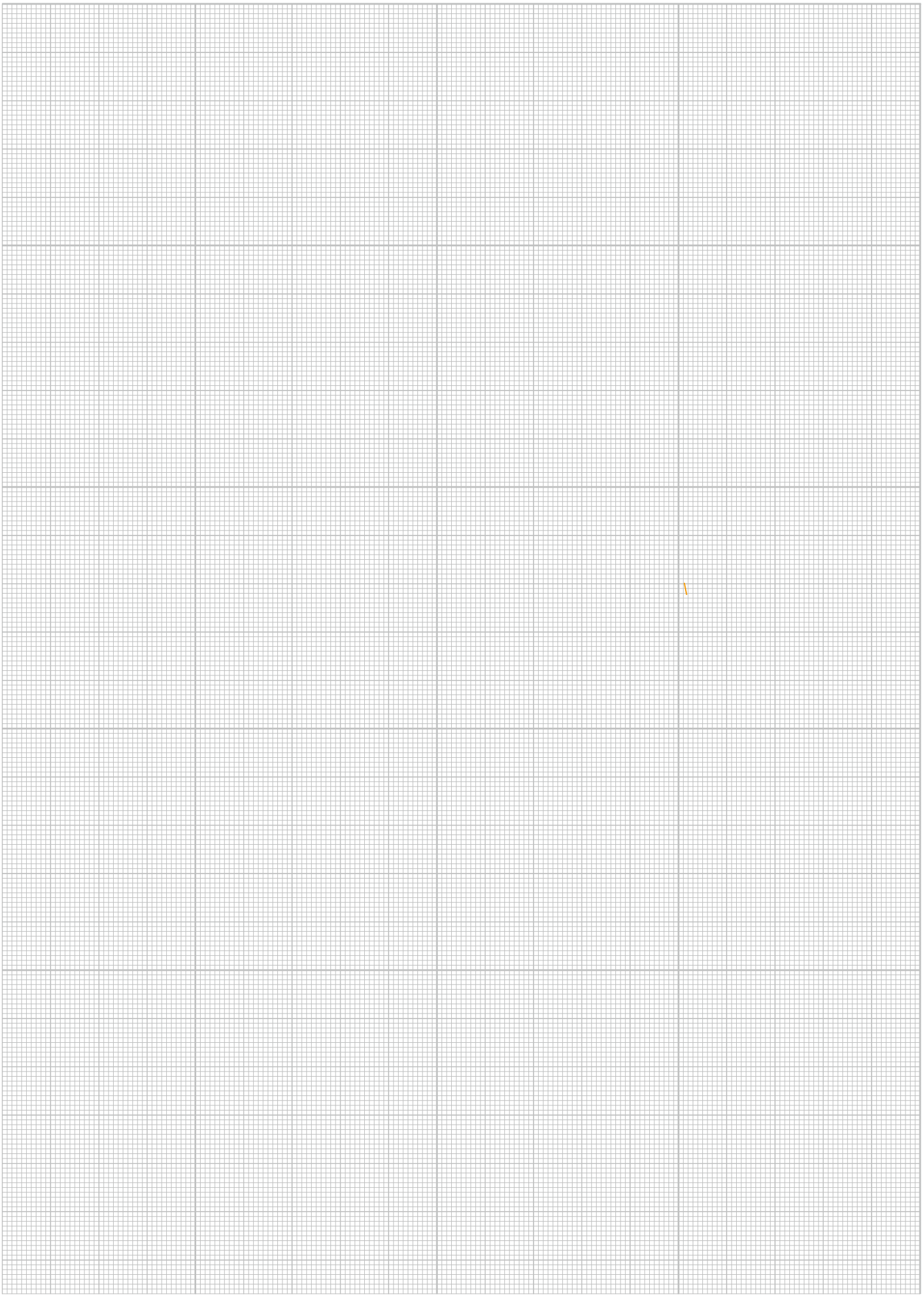


▸ MTCV-04-W



▸ MTCV-06-A, B, W

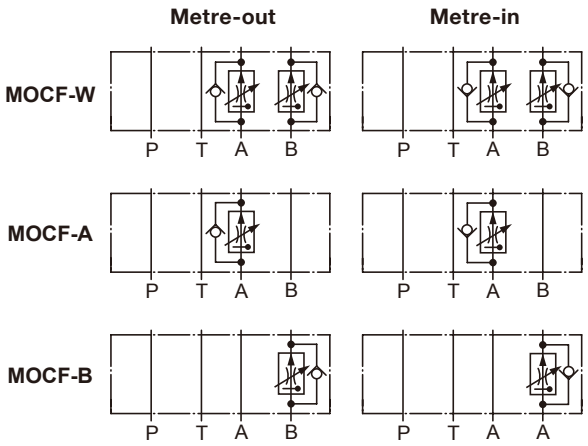




MOCF



SYMBOLS



ORDER CODES

MOCF - 02 - W 1

(1) (2) (3) (4)

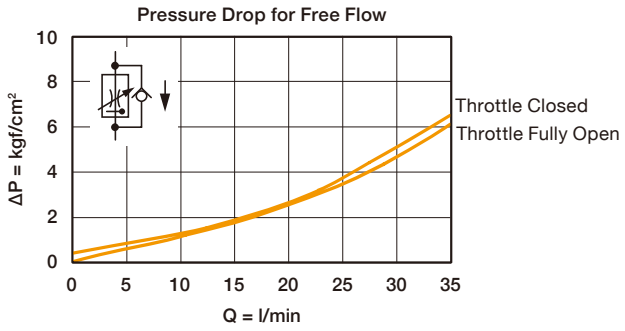
1 ▸	Model Name	MOCF	
2 ▸	Orifice	02	1/4"
		03	3/8"
3 ▸	Action Form	A	
		B	
		W	
4 ▸	Moving Direction	none	out
		I	in

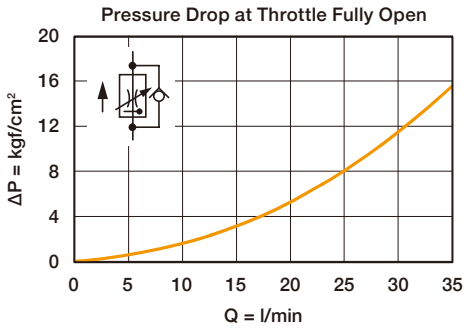
MODEL SPEC.

Model	Max. Pressure (kgf/cm^2)	Control Flow (l/min)	Operating Temperature (°C)	Weight (kg)
MOCF-02-W	250	0.3 ~ 20, ΔP=70kgf/cm^2 0.5 ~ 20, ΔP=210kgf/cm^2	-15 ~ 70	3.4
MOCF-02-A, B				1.2
MOCF-03-W	250	0.5 ~ 60, ΔP=70kgf/cm^2 1 ~ 60, ΔP=250kgf/cm^2	-15 ~ 70	5
MOCF-03-A, B				4.6

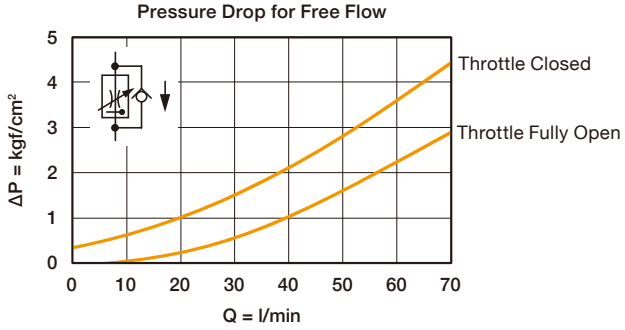
CURVE

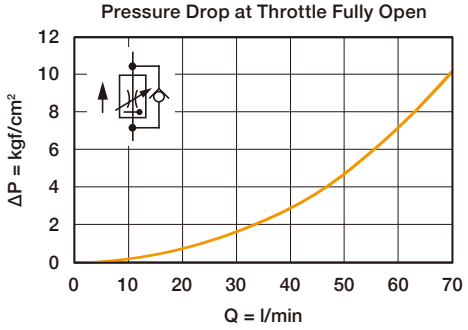
▸ MOCF-02





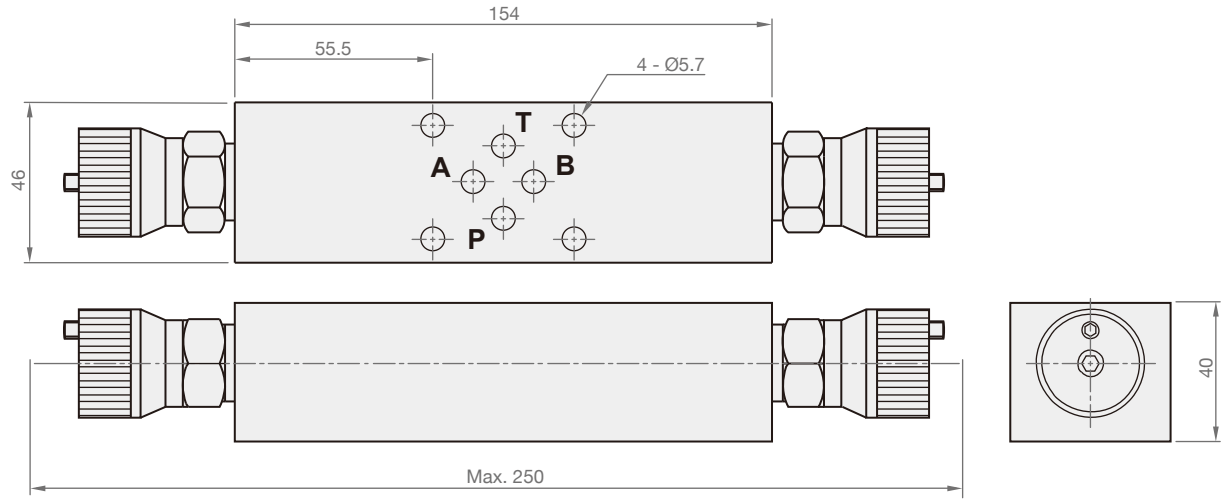
▸ MOCF-03



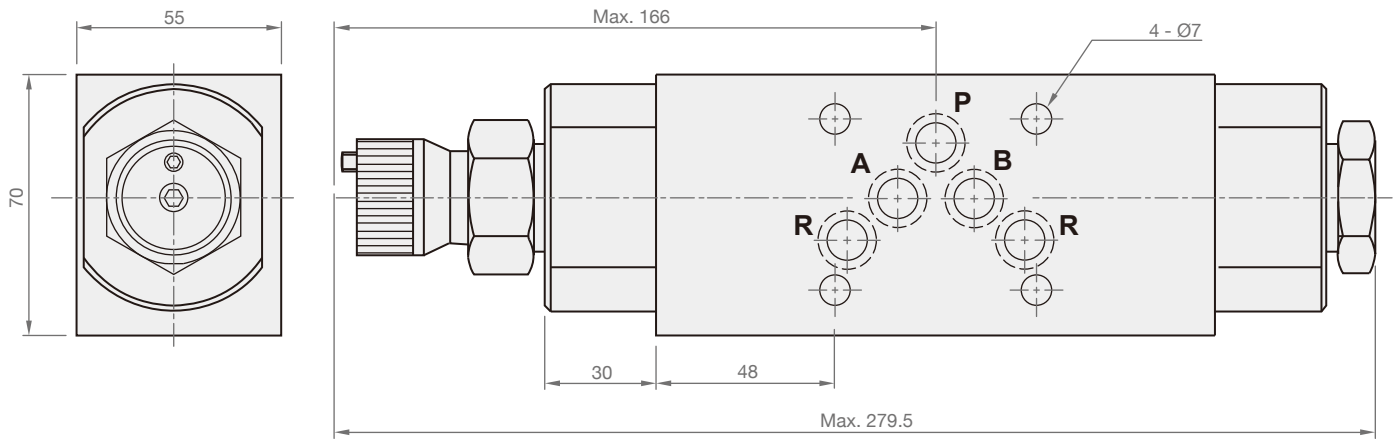


DIMENSION (UNIT : mm)

▸ MOCF-02



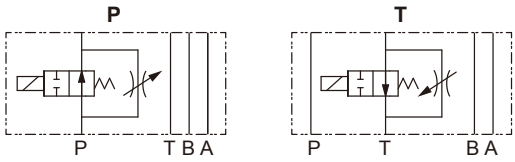
▸ MOCF-03



MST



SYMBOLS



ORDER CODES

MST - 03 - P - D2

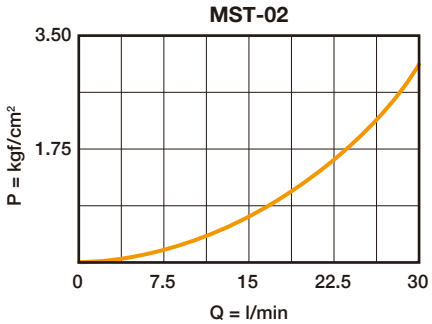
1	Model Name	MST	
2	Thread Connection	02	1/4"
		03	3/8"
3	Action Form	P	
		T	
4	Power Source	A1	AC 110V, 50/60Hz
		A2	AC 220V, 50/60Hz
		D1	DC 12V
		D2	DC 24V

MODEL SPEC.

Model	Max. Pressure (kgf/cm²)	Max. Flow (l/min)	Weight (kg)
MST-02	210	35	1.28
MST-03	210	70	3.8

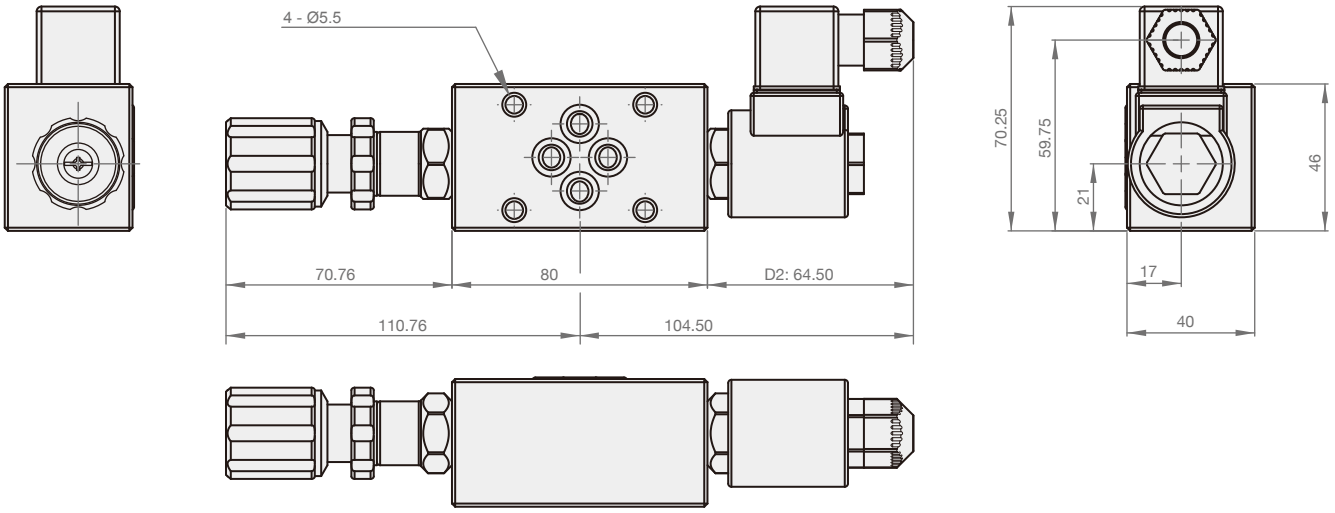
CURVE

▸ **Pressure Drop (Fully Open)**

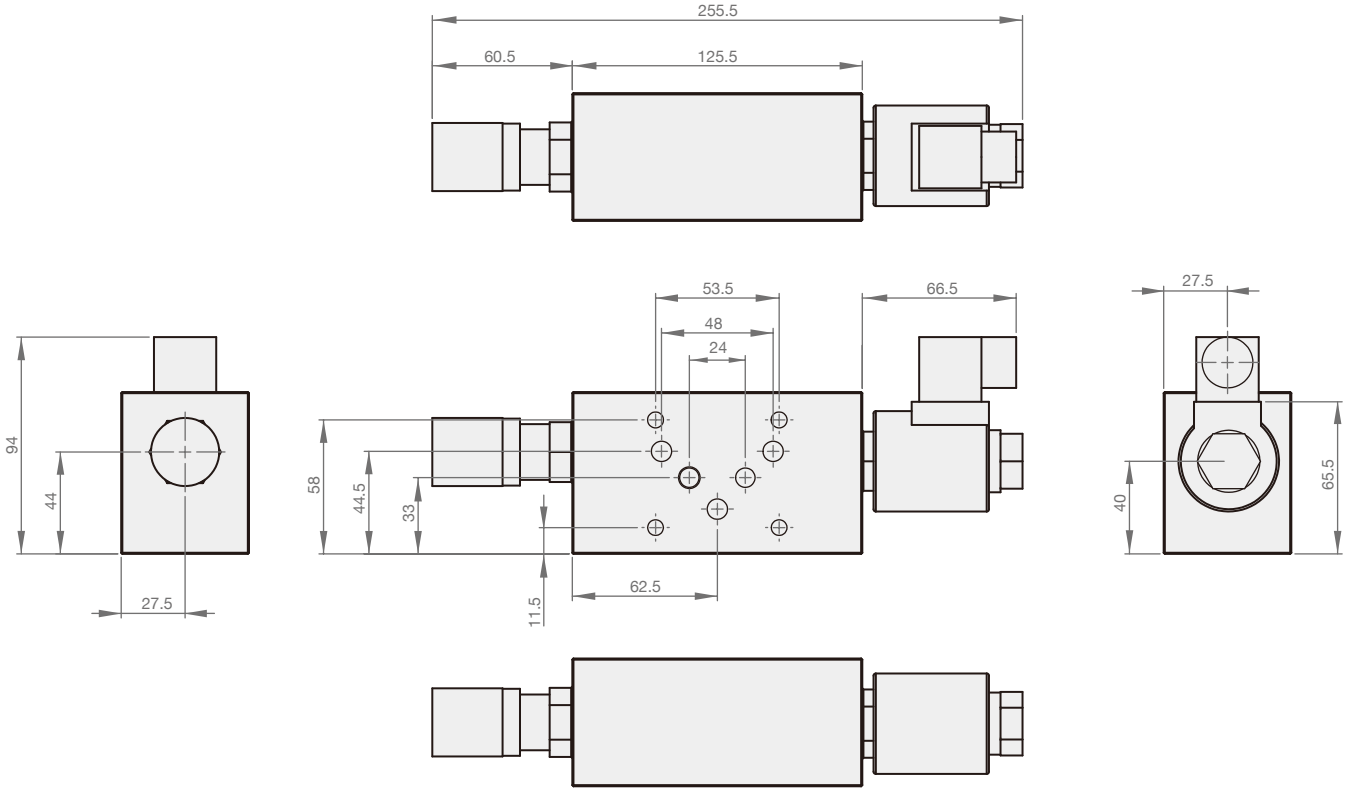


DIMENSION (UNIT : mm)

▸ MST-02



▸ MST-03



MCV

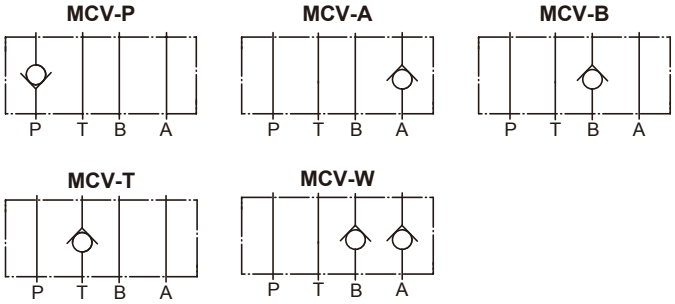


MCV-02



MCV-03

SYMBOLS



ORDER CODES

MCV - 02 - P - 05

1	Model Name	MCV	
2	Thread Connection	02	1/4"
		03	3/8"
3	Action Form	P	
		T	
		A	
		B	
		W	
4	Checking Pressure	05	0.35 kgf/cm^2
		50	3.5 kgf/cm^2

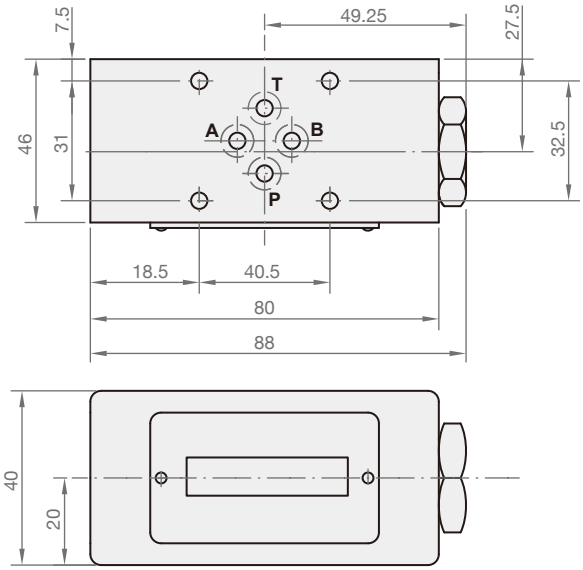
MODEL SPEC.

Model	Max. Pressure (kgf/cm^2)	Checking Pressure (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MCV-02	210	05: 0.35 50: 3.5	35	1.1
MCV-03			70	2.5

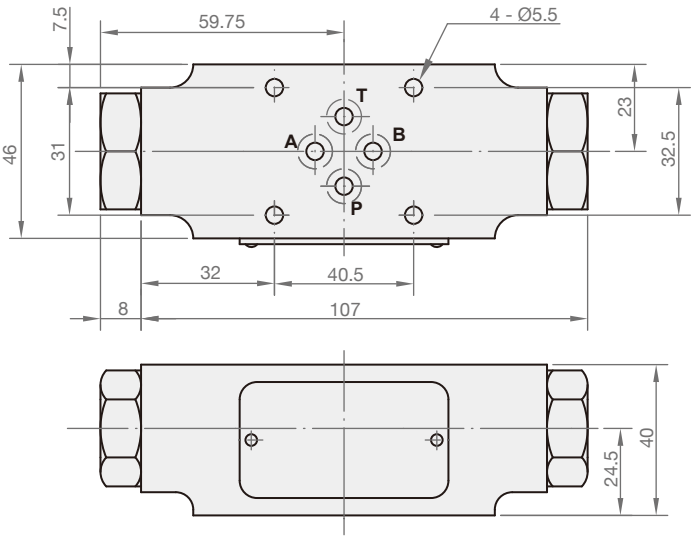
DIMENSION

(UNIT : mm)

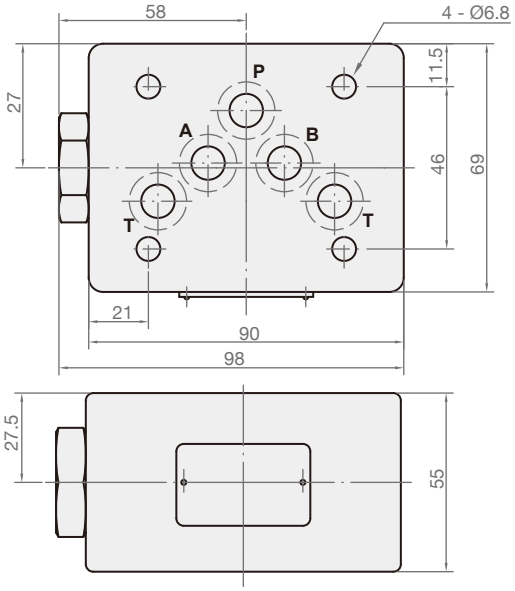
▸ MCV-02-P, T, A, B



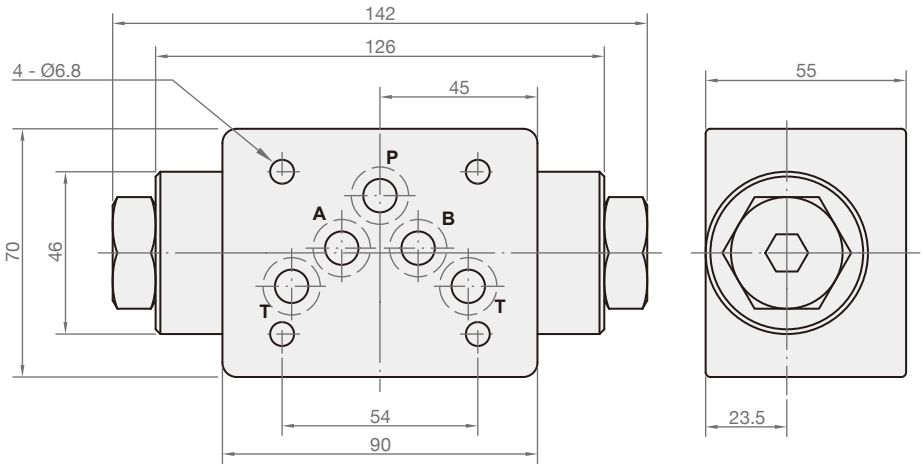
▸ MCV-02-W



▸ MCV-03-P, T, A, B



▸ MCV-03-W



MPCV



MPCV-02



MPCV-03

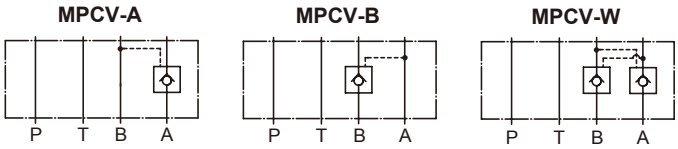


MPCV-04



MPCV-06

SYMBOLS



ORDER CODES

MPCV - 02 - A

① ② ③

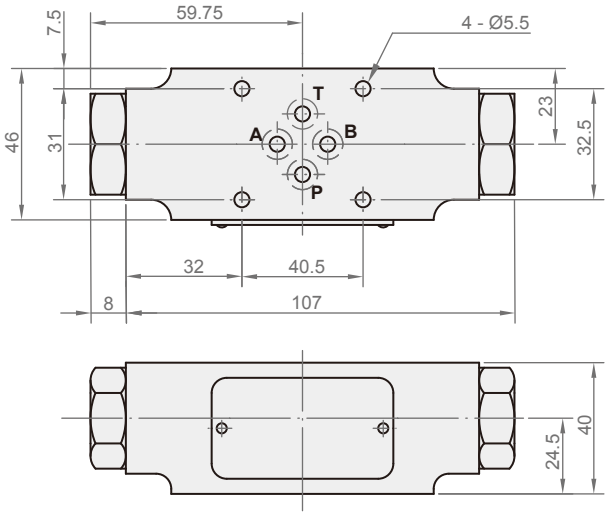
①	Model Name	MPCV	
②	Thread Connection	02	1/4"
		03	3/8"
		04	1/2"
		06	3/4"
③	Action Form	A	
		B	
		W	

MODEL SPEC.

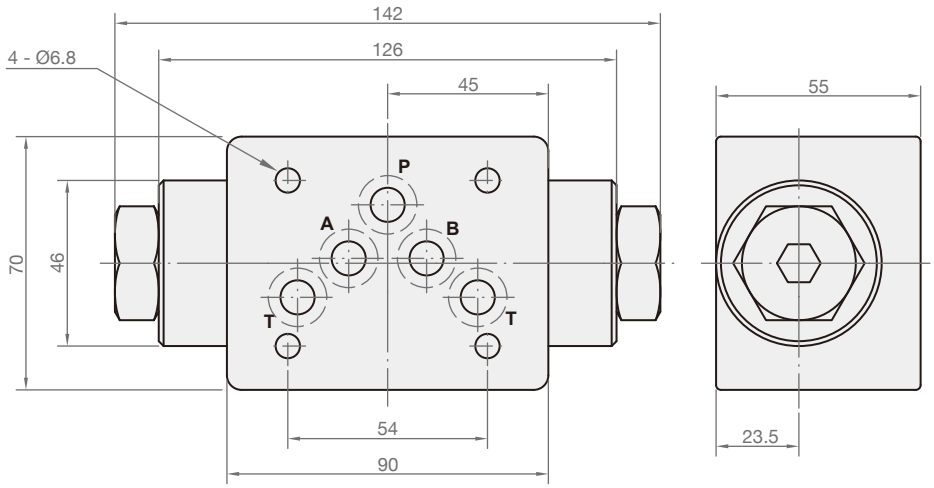
Model	Max. Pressure (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MPCV-02	210	35	1.3
MPCV-03		70	3.0
MPCV-04		120	7.0
MPCV-06		180	12.5

DIMENSION (UNIT : mm)

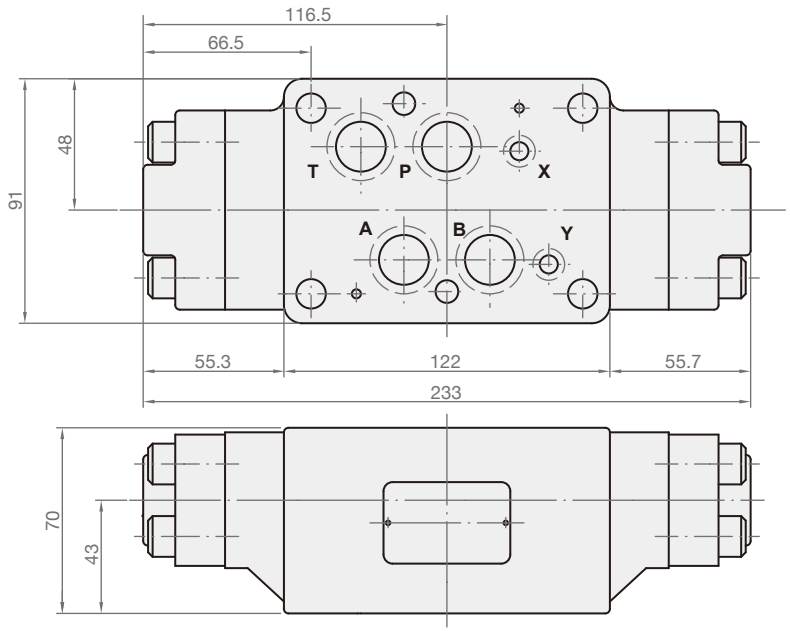
▸ MPCV-02



▸ MPCV-03

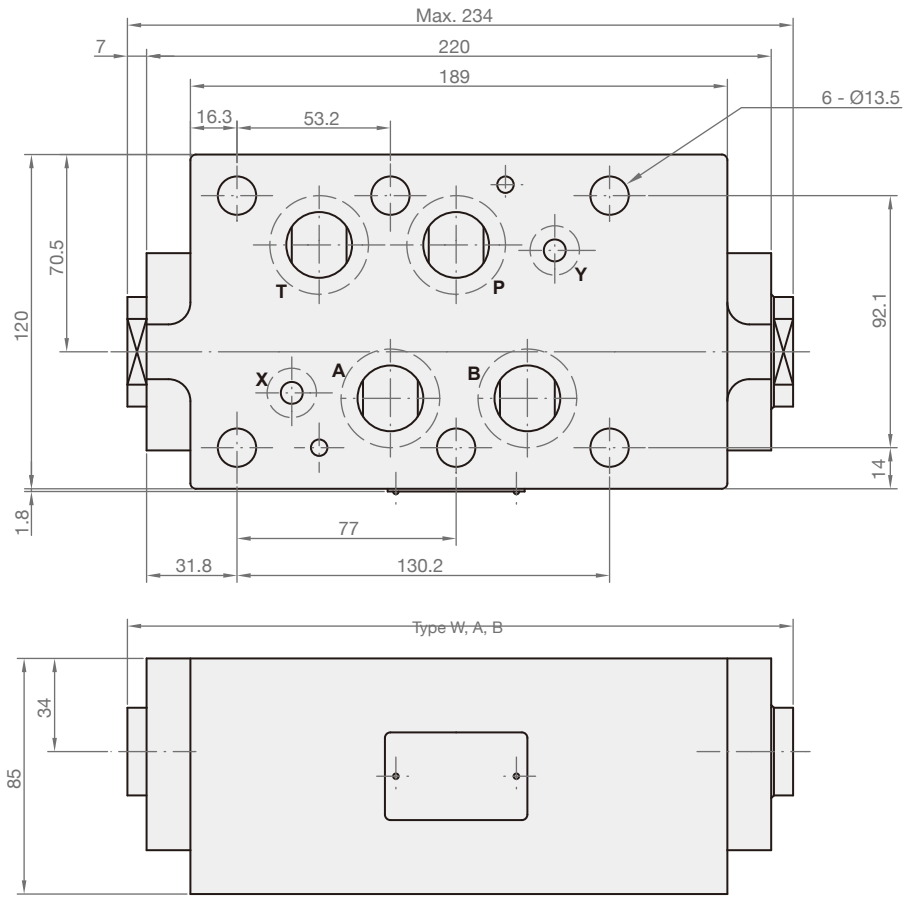


▸ MPCV-04



DIMENSION (UNIT : mm)

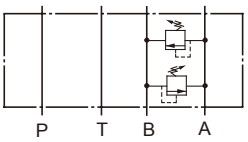
▸ MPCV-06



MRV-D



SYMBOLS



ORDER CODES

MRV - 02 D - 1

1 ▸	Model Name	MRV-D	
2 ▸	Thread Connection	02	1/4"
3 ▸	Pressure Adj. Range	1	7~70 kgf/cm^2
		2	35~140 kgf/cm^2
		3	70~210 kgf/cm^2

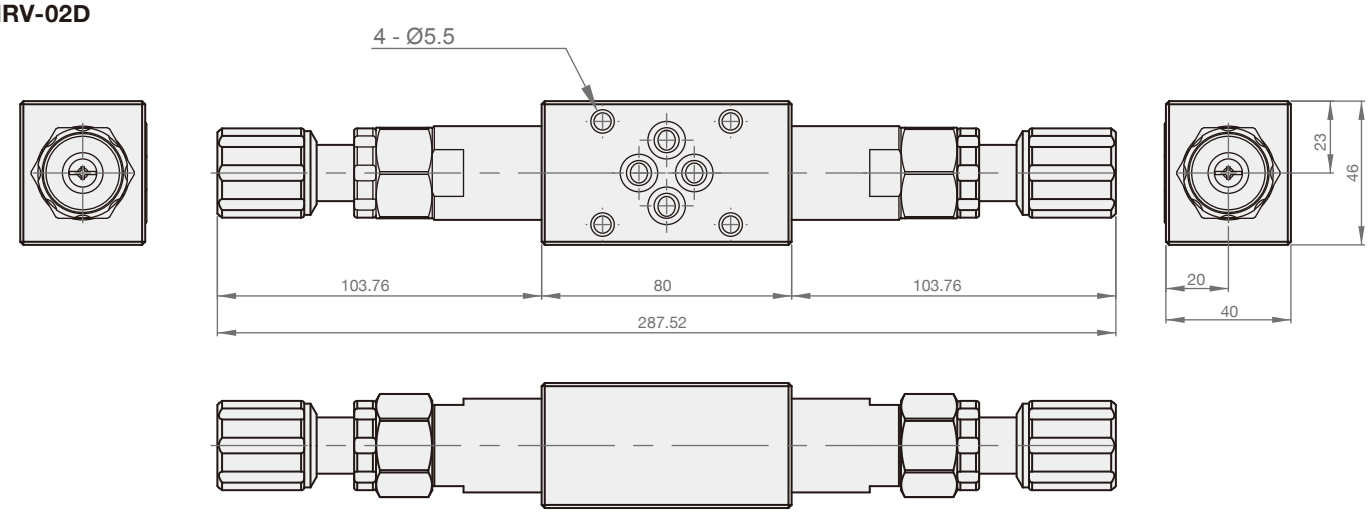
MODEL SPEC.

Model	Max. Pressure (kgf/cm^2)	Pressure Adj. Range (kgf/cm^2)	Max. Flow (l/min)	Weight (kg)
MRV-02D	210	1: 7~70 2: 35~140 3: 70~210	35	1.53

DIMENSION

(UNIT : mm)

▸ **MRV-02D**



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