

MRF Series

1. A variety of action modes to choose from;
2. Valve body cast iron has high strength and durability, long life;
3. Internal hard steel original to improve product life;
4. Three pressure range setting options;
5. Plastic knob or hex screw two pressure adjustment options.



How to order

MRF-02P-K-1-80-V

Modular relief valve

Nominal size
01: 3 diameter; 02: 6 diameter;
03: 10 diameter; 04: 16 diameter;
06: 20 diameter;

Function port
P: P port; A: A port; B: B port
C: A&B port connection in series
D: A&B port parallel connection

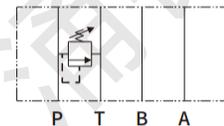
Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code
20: standard (01/03 optional)
80: high-pressure (02/03/04/06 optional)

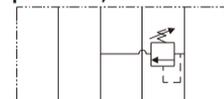
Voltage regulation range
(see specification sheet)

Adjusting rod type
Blank: No knob (custom)
K: With plastic knob (standard)

● Symbols

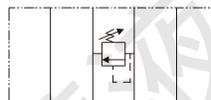


MRF-★P-★★

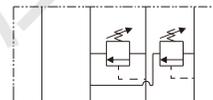


MRF-★A-★★

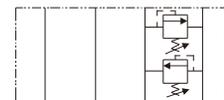
Note: See the specification table for the functional action holes of each size.



MRF-★B-★★



MRF-★C-★★



MRF-★D-★★

● Specification

Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Pressure range (bar)	Weight (kg)	
MRF-01P/A/B-★★-20	315	250	2	0: 1.5~35bar 1: 8~70bar 2: 35~140bar 3: 70~250bar	1.3	
MRF-01C-★★-20					1.5	
MRF-03P/A/B-★★-20	315	250	70		3.3	
MRF-03C/D-★★-20					4.0	
MRF-02C/D-★★-80	315	315	60	0: 1.5~50bar 1: 8~100bar 2: 35~200bar 3: 70~315bar	2.0	
MRF-02P/A/B-★★-80					1.5	
MRF-03P/A/B-★★-80	315	315	100		2.4	
MRF-03C/D-★★-80					2.6	
MRF-04P/A/B-★★-80	315	315	200		6.0	
MRF-06P/A/B-★★-80			400		12.2	
Oil	ISO VG 32,46,68		Pollution standards		≤NAS12,25μm	
Viscosity range	10~400 cSt		Surface treatment		Bonderizing	
Operating temperature	-15~70°C					

Note-Pressure setting: Adjust the screw or handle clockwise to increase the pressure, counter clockwise to reduce the pressure, after the pressure adjustment, please lock the hex nut or plastic mounting nut.

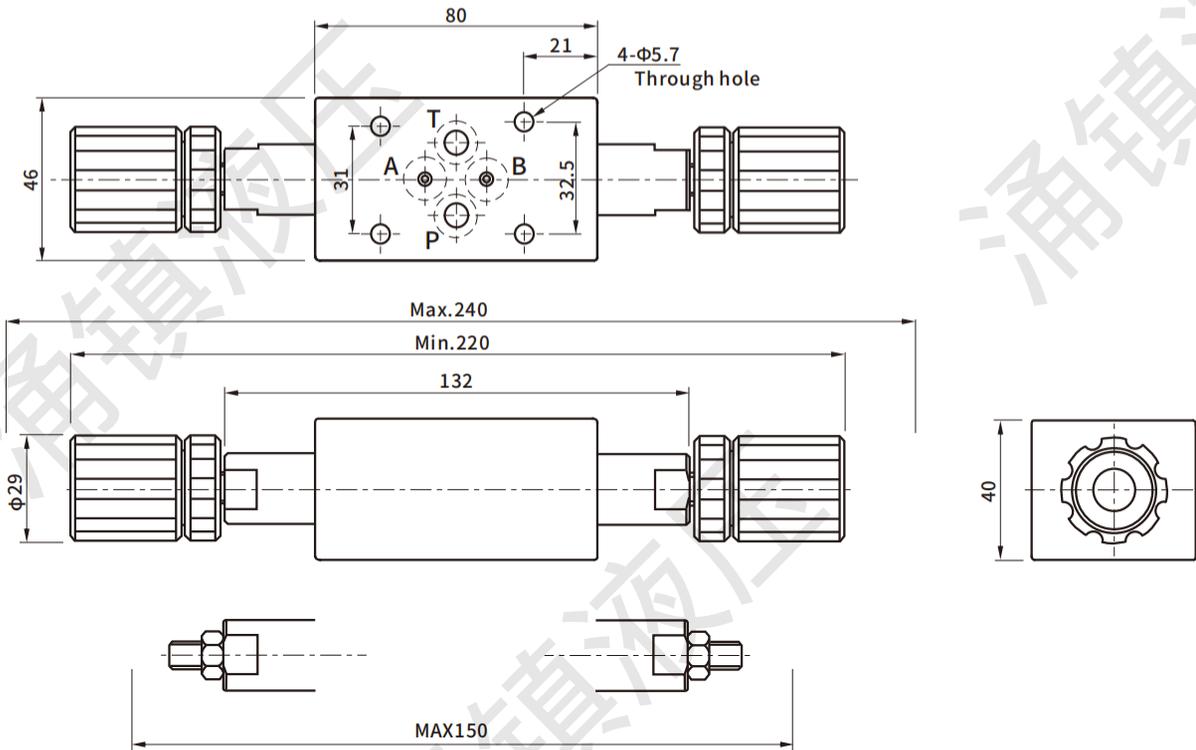
MRF-01**Series

● Dimensions

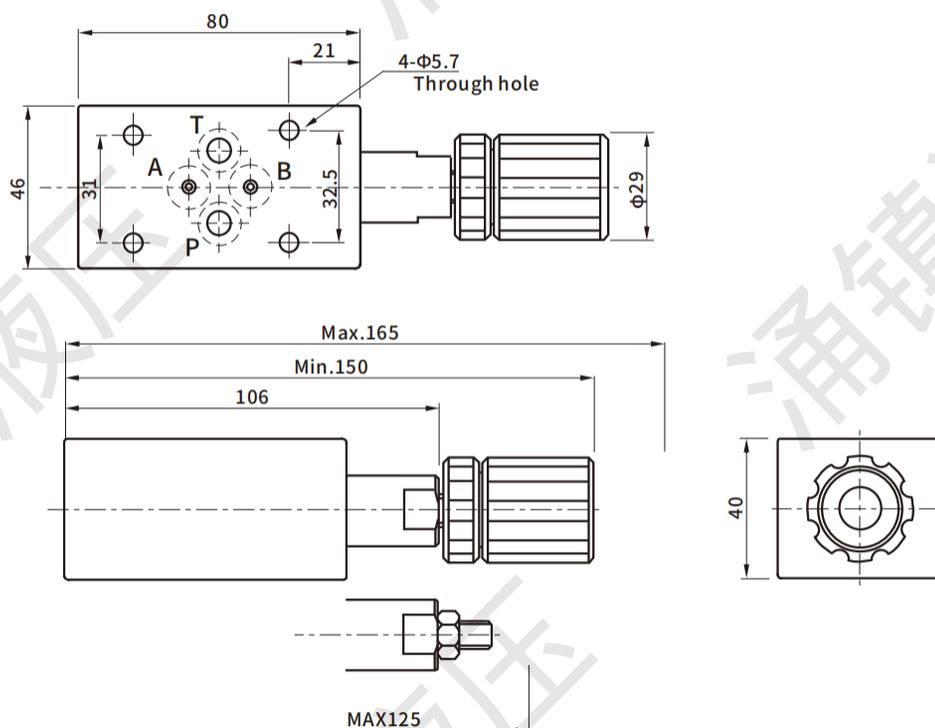
MRF-01C-**

Units:mm

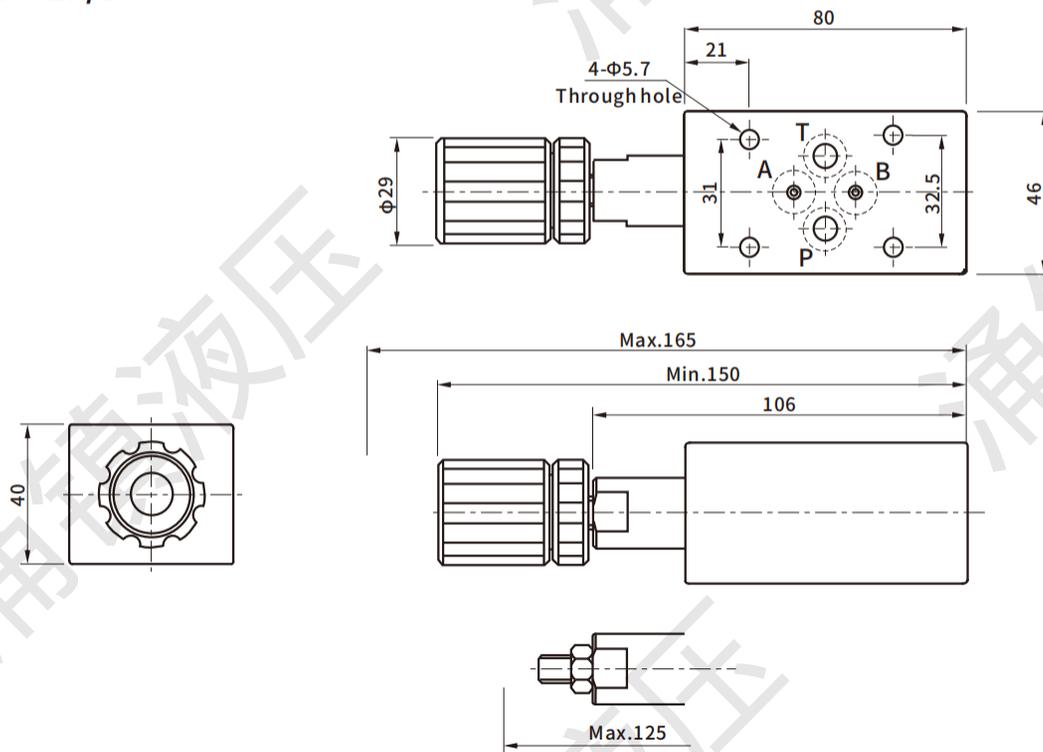
Installation surface:ISO 4401-AB-03-4-A



MRF-01A-**

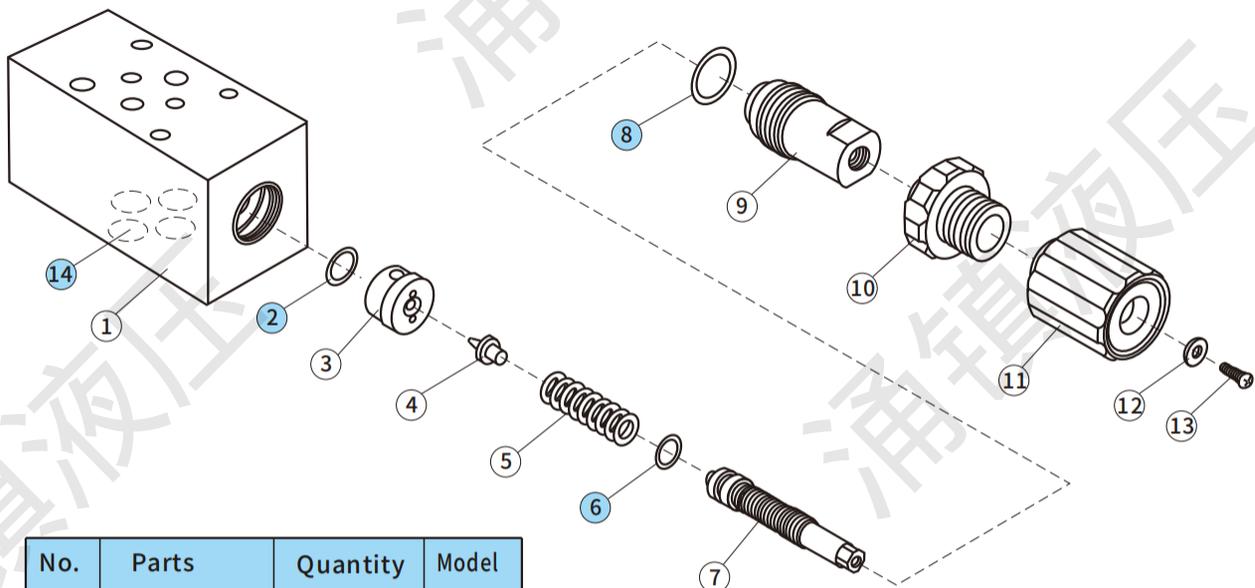


MRF-01P/B-★★



Modular
valve

● Sealing Elements

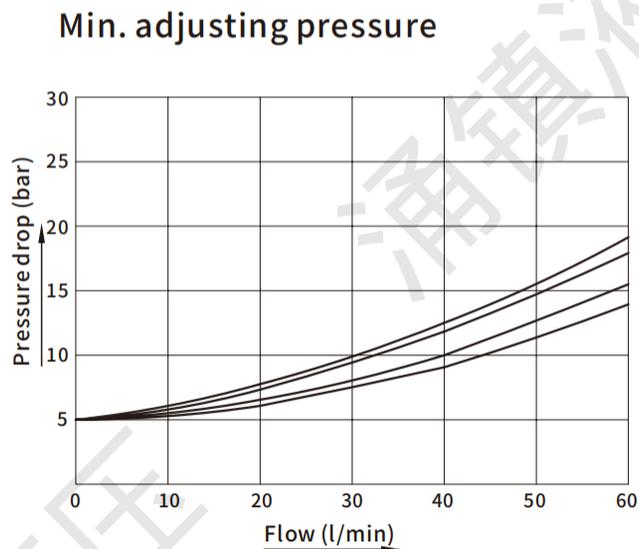
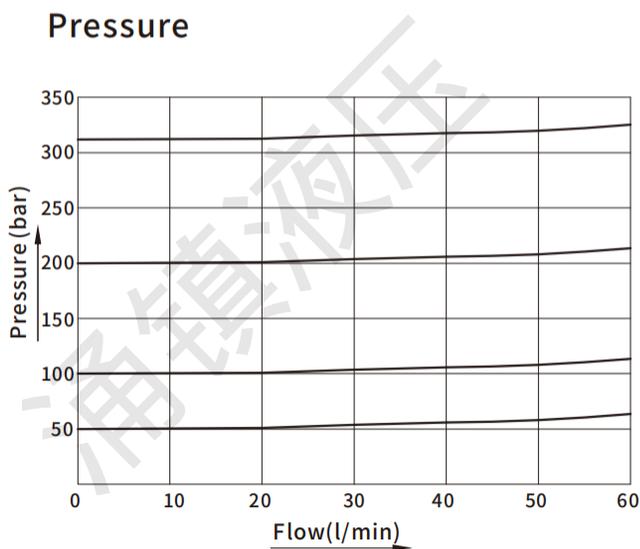


No.	Parts	Quantity	Model
2	O-ring	1	P10A
6	O-ring	1	P8
8	O-ring	1	P16
14	O-ring	4	P9

MRF-02**Series

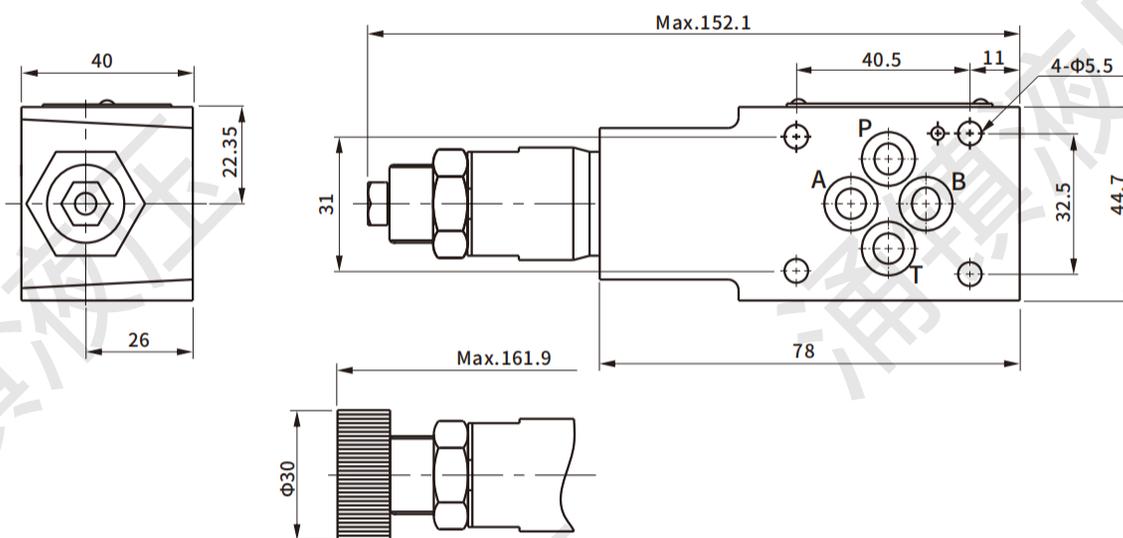
Test conditions: Viscosity: 46cSt; Temperature: 40°C ± 5°C

● Characteristic Curve



● Dimensions

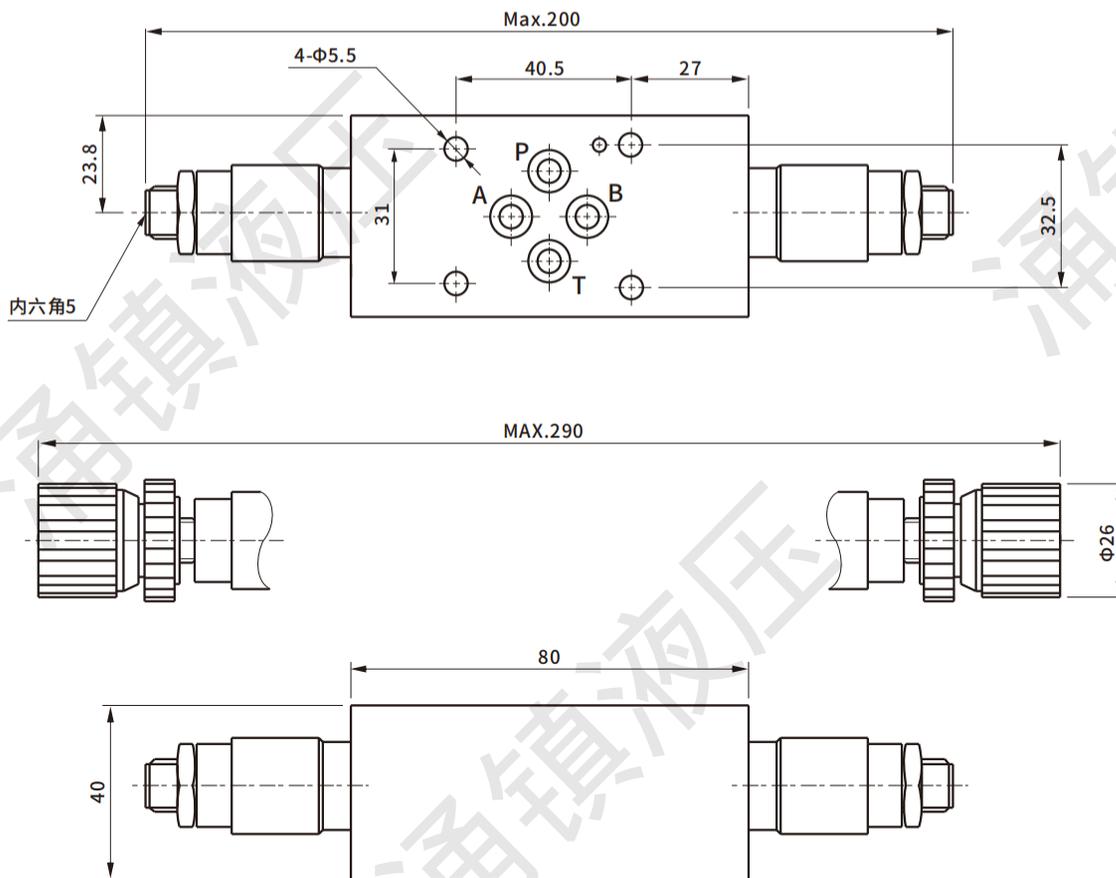
MRF-02A-**-80



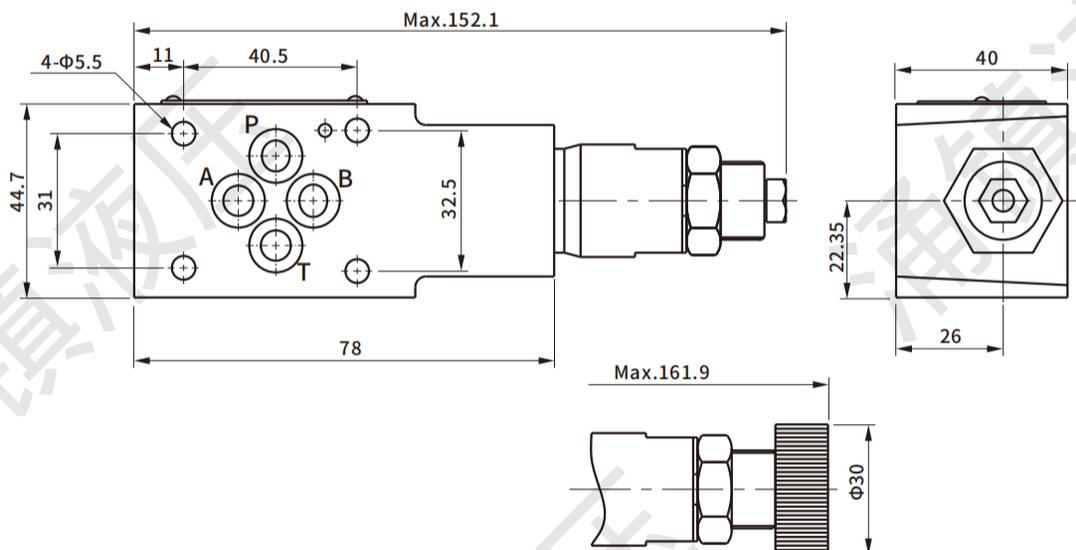
Units: mm

Installation surface: ISO 4401-AB-03-4-A

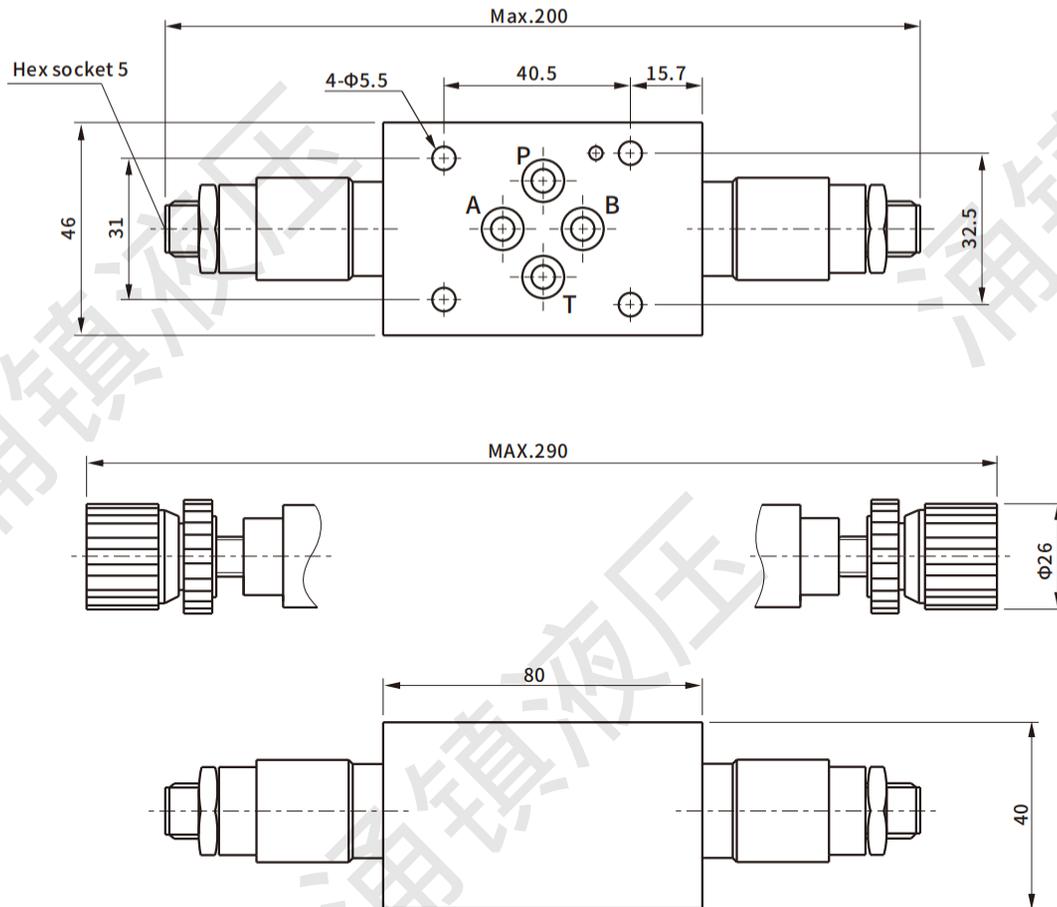
MRF-02C-**-40



MRF-02B/P-**-80



MRF-02D-**-40

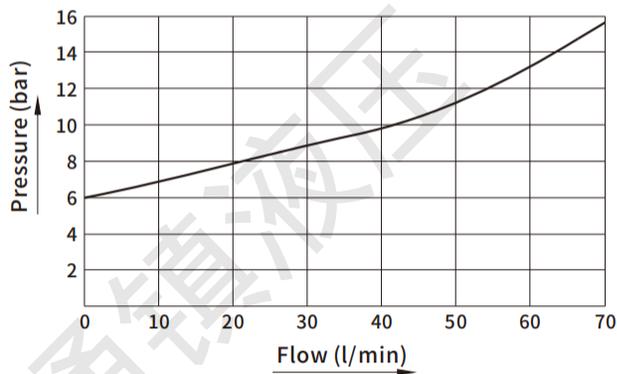


MRF-03**Series

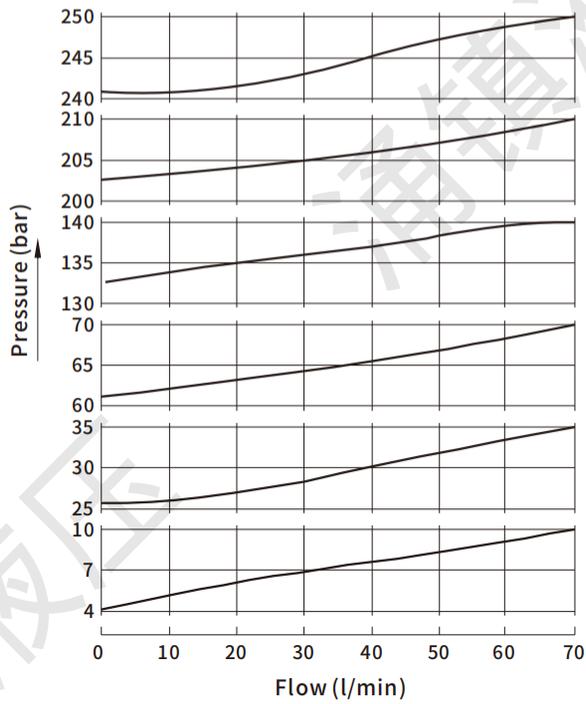
Test conditions: Viscosity: 35cSt; Temperature: 50°C

● Characteristic curve

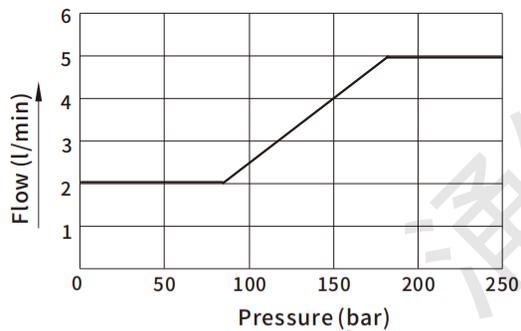
Min. adjusting pressure



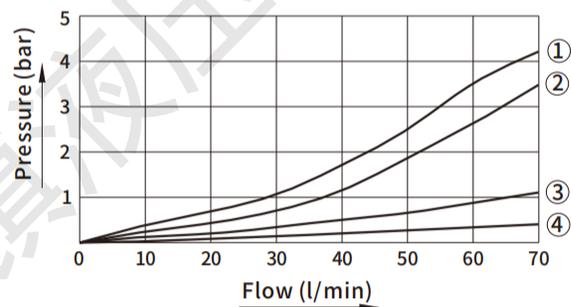
Overflow - Load



Min. flow



Pressure drop



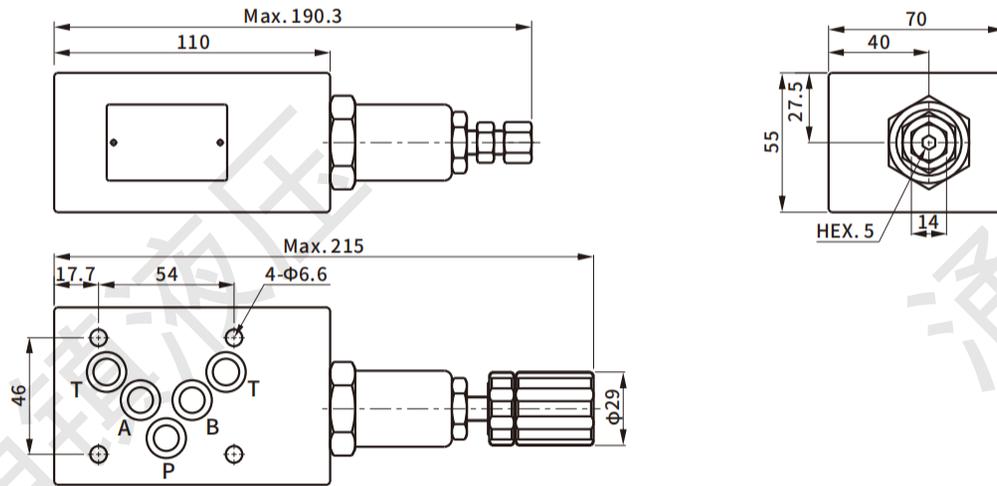
- ① : T-circuit for MRF-03P, 03A, 03D, 03C
- ② : A-circuit for MRF-03P
- ③ : B-circuit for MRF-03P
- ④ : T-circuit for MRF-03B, P-circuit for MRF-03P
P/A/B circuit for MRF-03A, 03B, 03D, 03C

● Dimensions

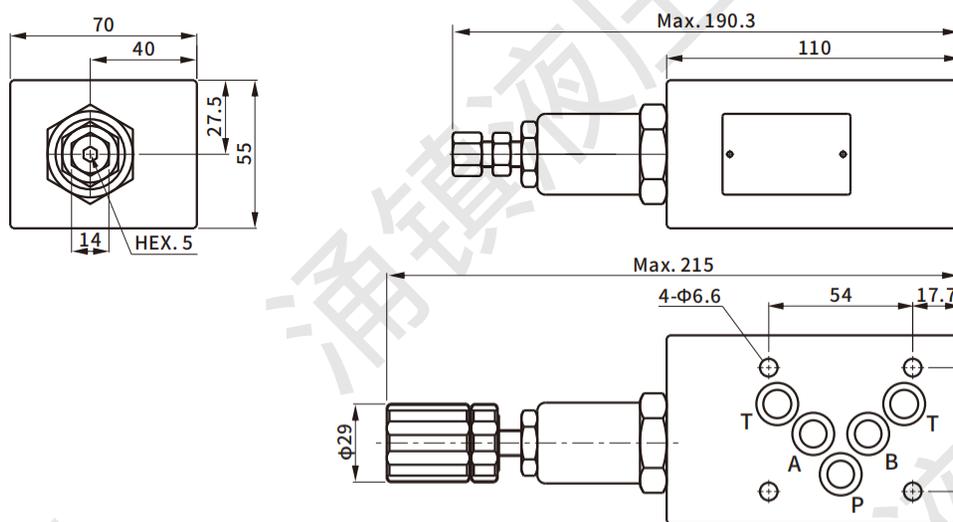
Units:mm

MRF-03P/B-★★

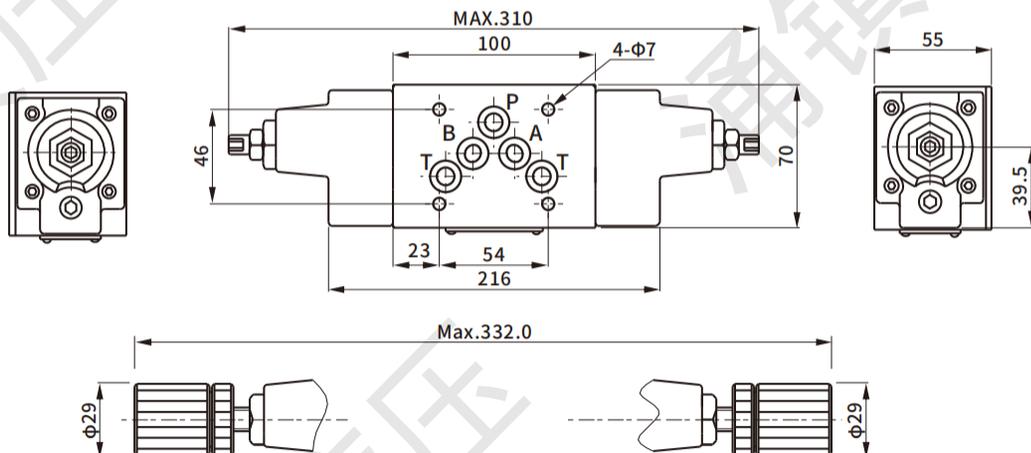
Installation surface:ISO 4401-AC-05-4-A



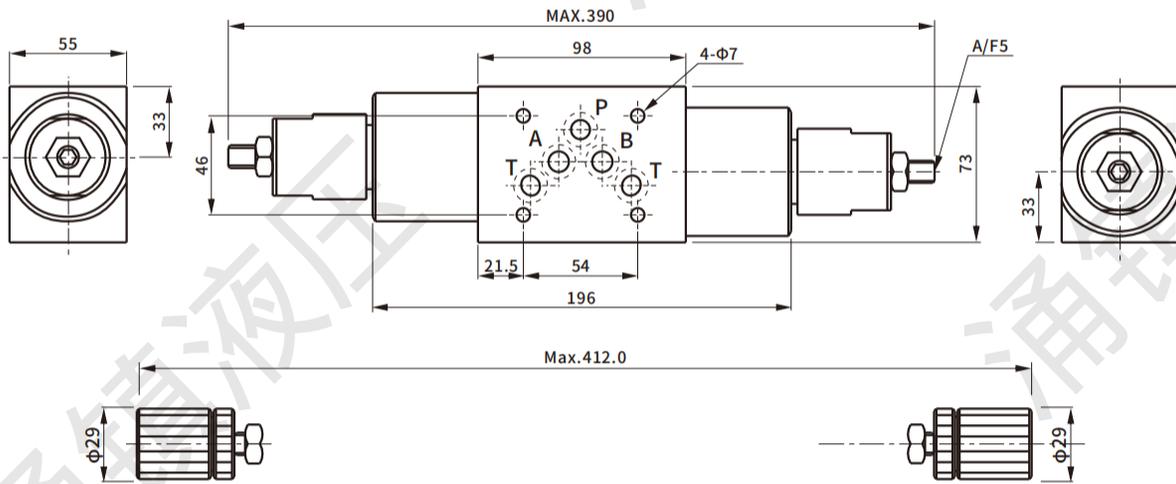
MRF-03A-★★



MRF-03C-★★



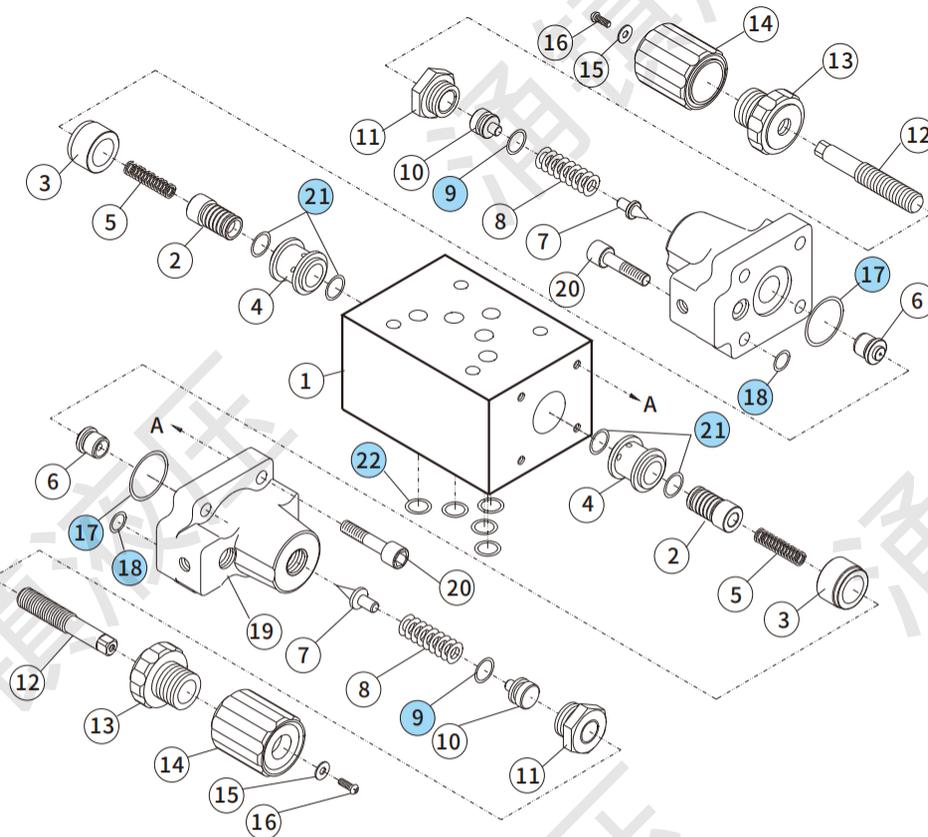
MRF-03D-★★



Modular valve

● Sealing elements

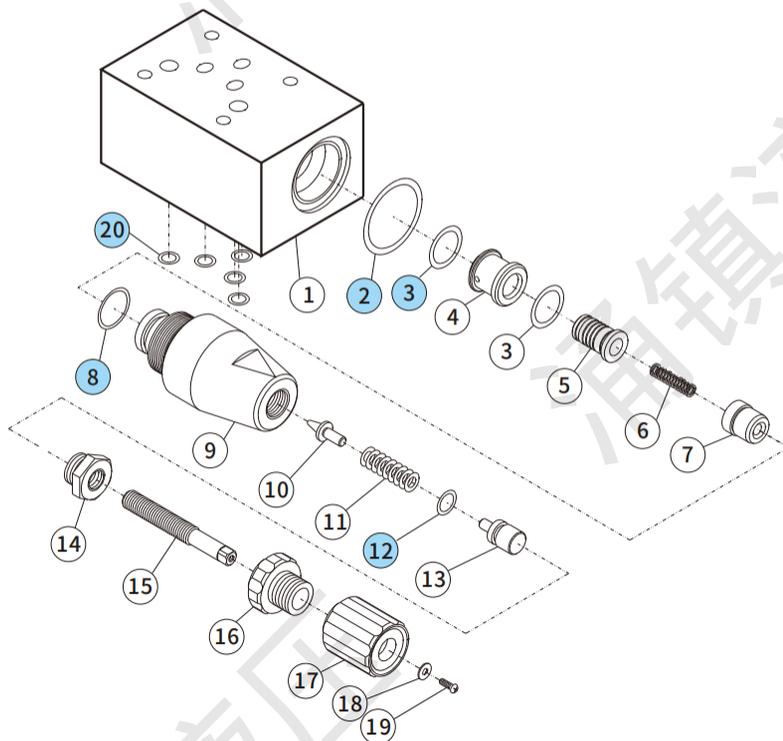
MRF-03C-★★



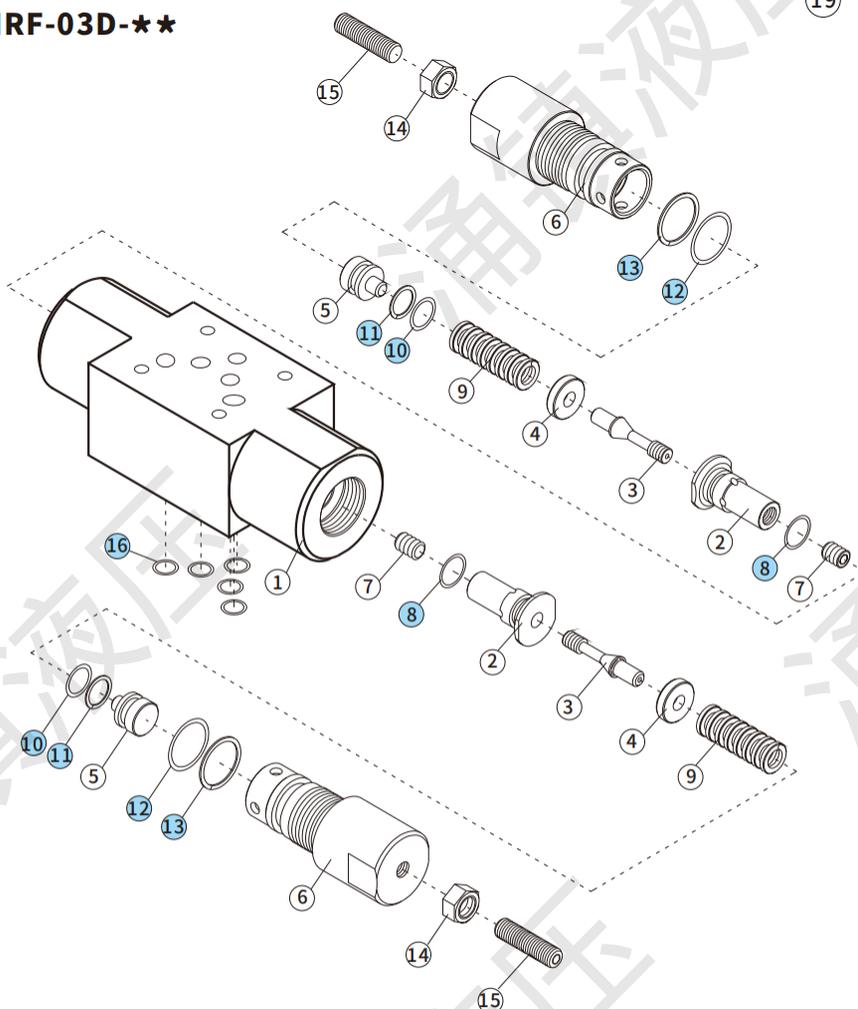
NO.	Parts	Model	Quantity
9	O-ring	P9	2
17	O-ring	P22	2
18	O-ring	P8	2
21	O-ring	P18	4
22	O-ring	P12	5

MRF-03P/A/B-★★

No.	Parts	Model	Quantity
2	O-ring	G35	1
3	O-ring	P18	2
8	O-ring	P18	1
12	O-ring	P9	1
20	O-ring	P12	5



MRF-03D-★★



No.	Parts	Model	Quantity
8	O-ring	P14	2
10	O-ring	P14	2
11	Benito ring back	P14	2
12	O-ring	P30	2
13	Benito ring back	P30	2
16	O-ring	P12	5

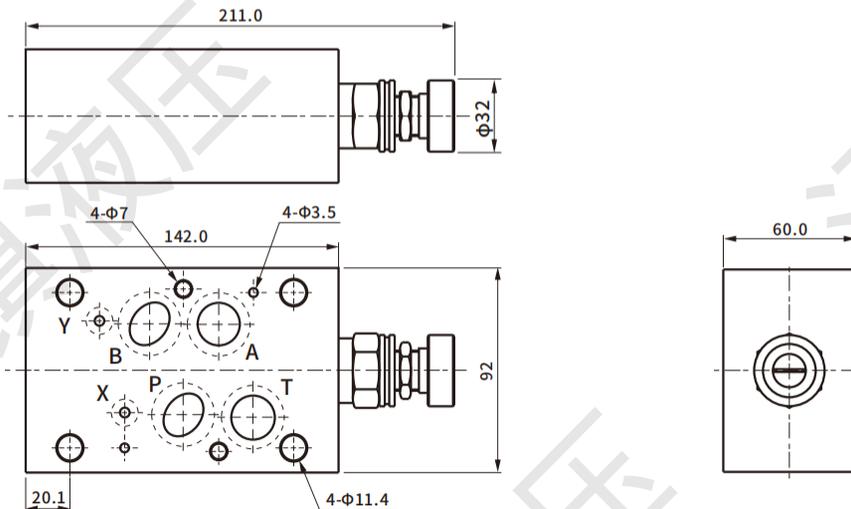
MRF-04**Series

● Dimensions

MRF-04P/A/B-**

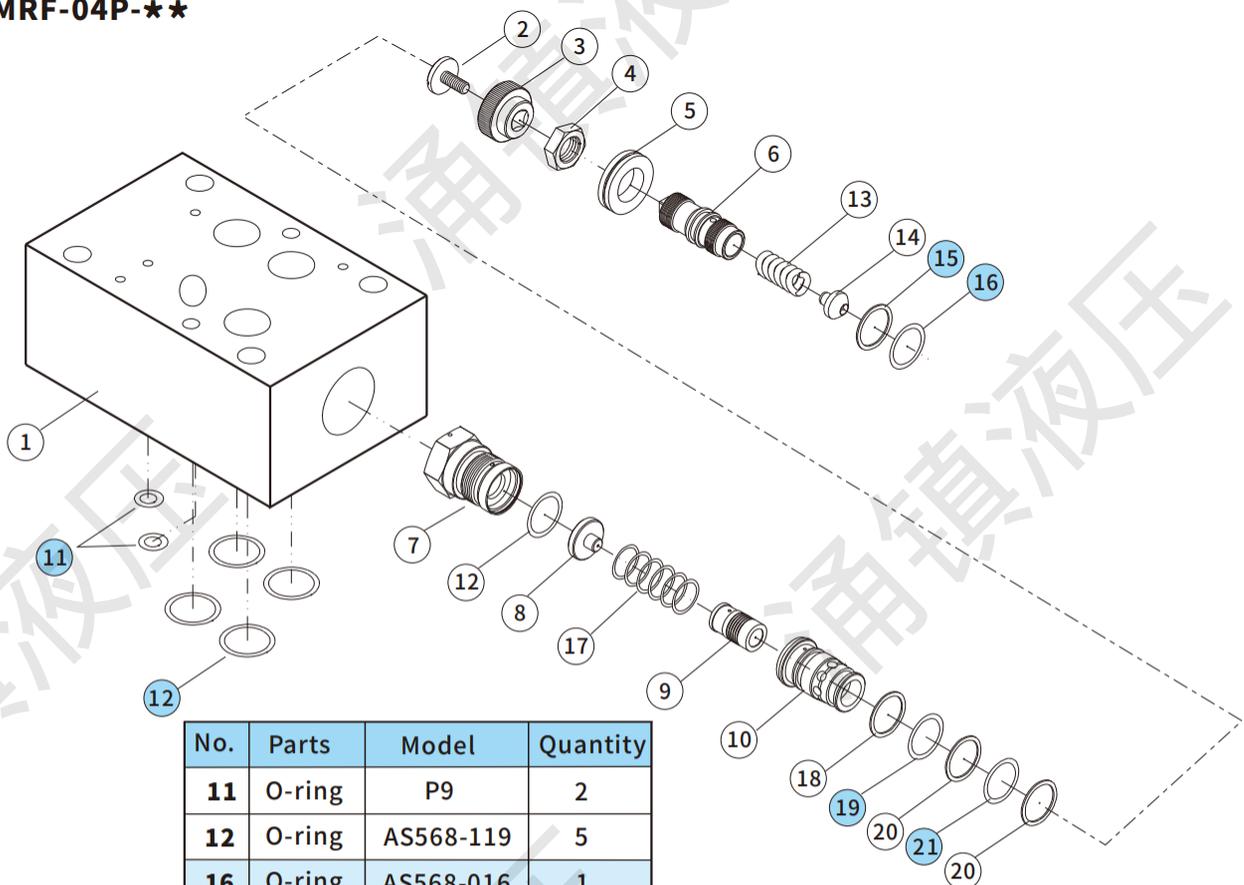
Units: mm

Installation surface: ISO 4401-AD-07-4-A



● Sealing elements

MRF-04P-**

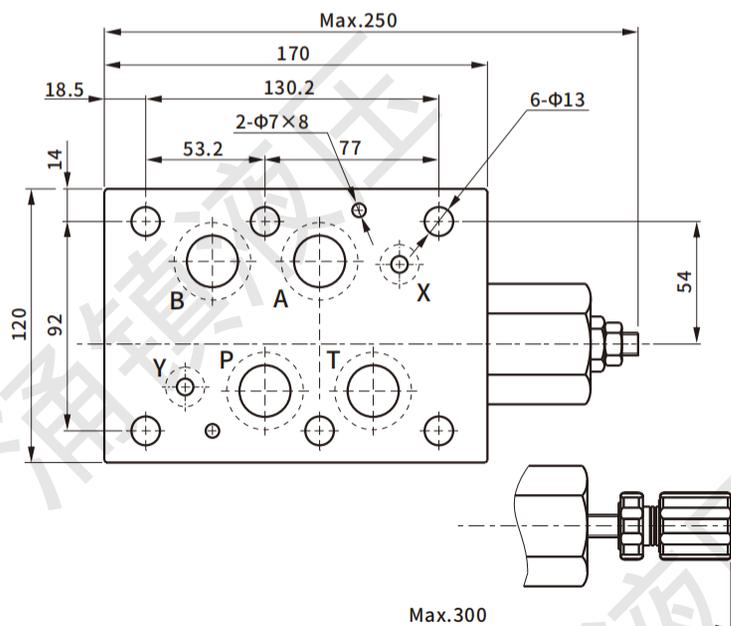


No.	Parts	Model	Quantity
11	O-ring	P9	2
12	O-ring	AS568-119	5
16	O-ring	AS568-016	1
19	O-ring	AS568-018	1
21	O-ring	AS568-017	1

MRF-06**Series

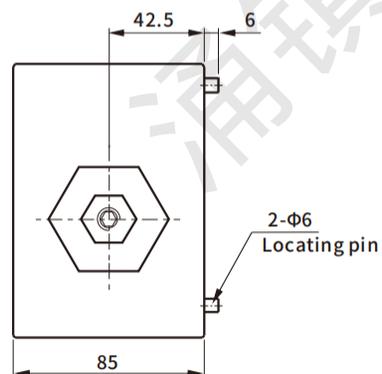
● Dimensions

MRF-06P/A/B-**-



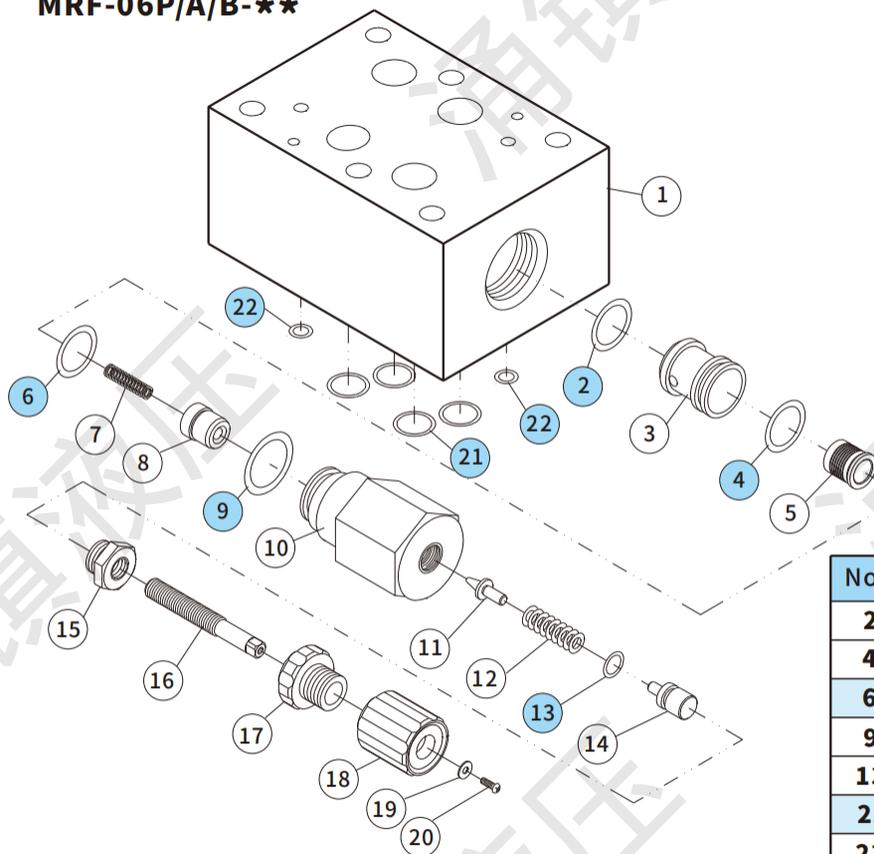
Units: mm

Installation surface: ISO 4401-AE-08-4-A



● Sealing elements

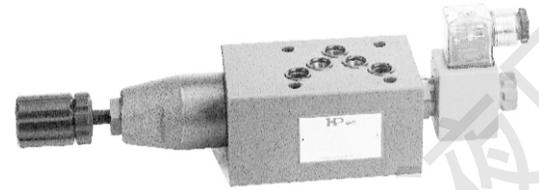
MRF-06P/A/B-**-



No.	Parts	Model	Quantity
2	O-ring	G25	1
4	O-ring	G25	1
6	O-ring	G25	1
9	O-ring	P35	1
13	O-ring	P9	1
21	O-ring	P28	4
22	O-ring	P14	2

MSRF Series

How to order



MSRF-03P-1PN-K-1-A230-20-V

Modular solenoid
Relief valve

Nominal size
03: 10 diameter

Function port
P: P port

Control mode
1PN: Normally open unloading
1NP: Normally closed to maintain pressure

Adjusting rod type
Blank: no knob (custom)
K: With plastic knob (standard)

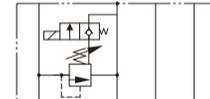
Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code

Coil voltage
D12: 12V DC
D24: 24V DC
A115: 115V AC
A230: 230V AC

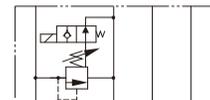
Pressure range
1: 8~70bar
2: 35~140bar
3: 70~250bar

● Symbols



P T B A

MSRF-03P-1NP



P T B A

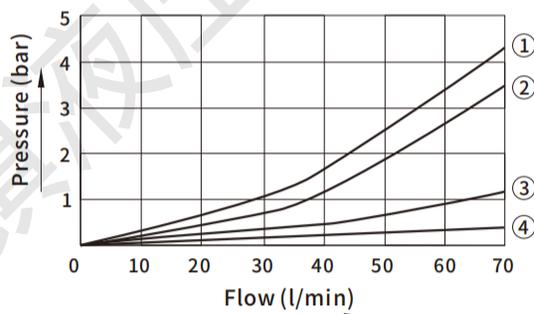
MSRF-03P-1PN

● Specification

Mode	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MSRF-03P-★	250	70	3.6
oil	ISO VG 32,46,68	Pollution standards	≤NAS12,25μm
Viscosity range	10~400 cSt	Surface treatment	Bonderizing
Operating temperature	-15~70°C		

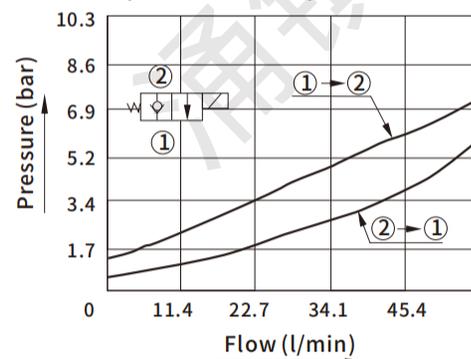
Characteristic curve

● Pressure drop



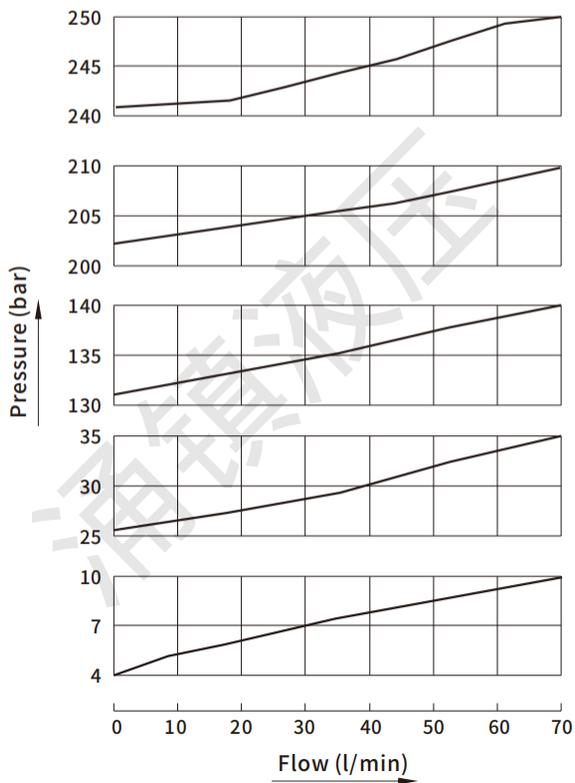
- ① : T circuit for MSRF-03P
- ② : A circuit for MSRF-03P
- ③ : B circuit for MSRF-03P
- ④ : P circuit for MSRF-03P

● When the solenoid directional valve is energized free flow- pressure drop

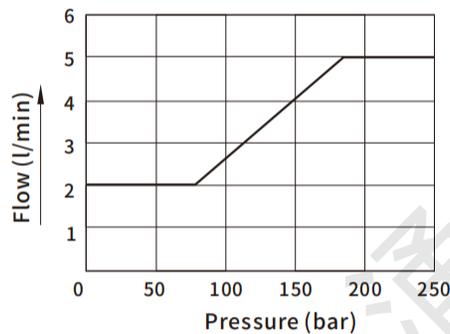


Test conditions: Viscosity: 32cSt; Temperature: 40°C

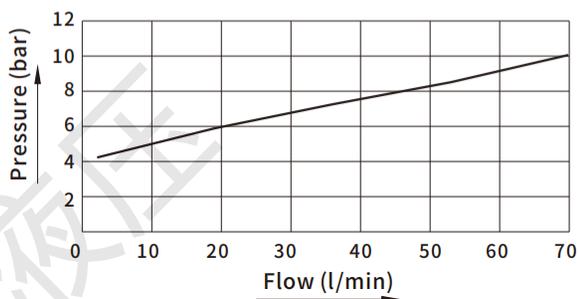
● Overflow - Load



● Min.Flow



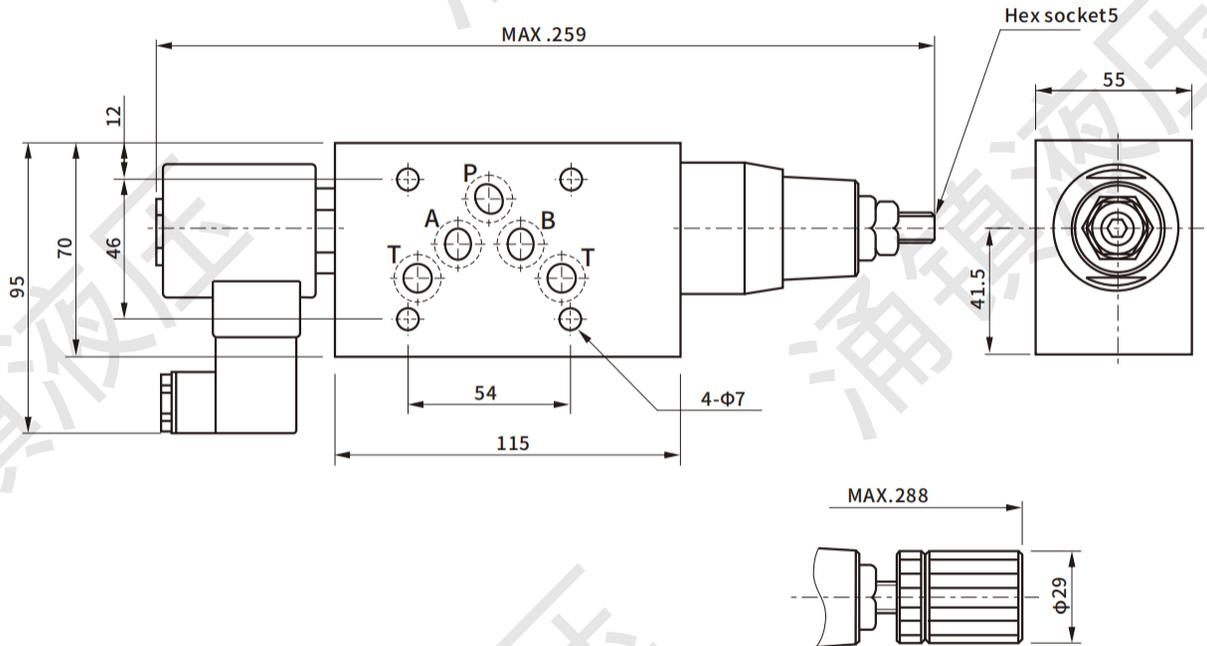
● Min.adjusting pressure



Dimensions

Units: mm

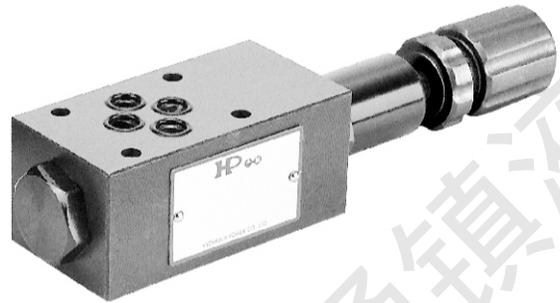
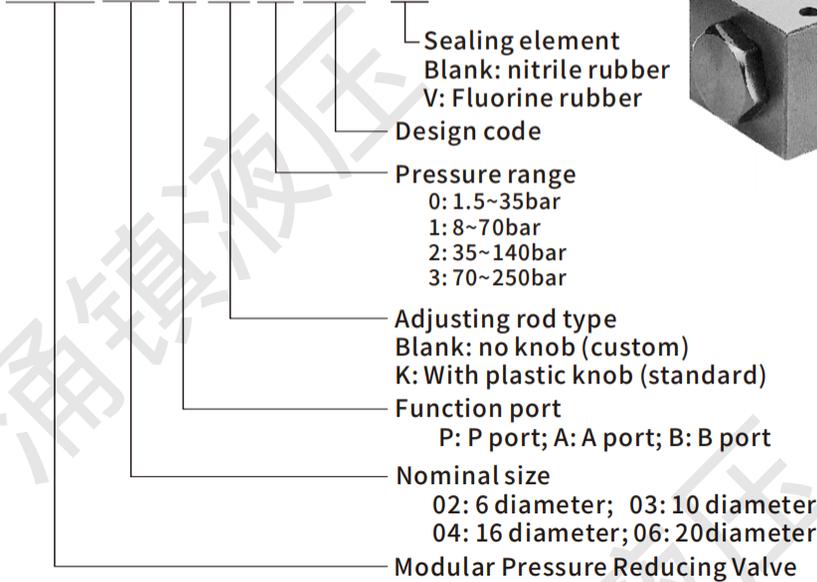
Installation surface: ISO 4401-AC-05-4A



MPR Series

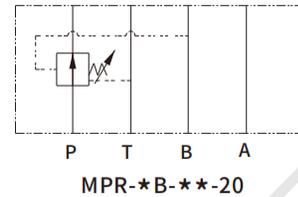
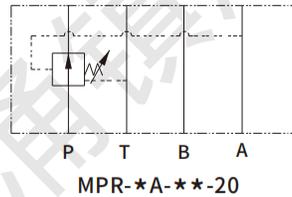
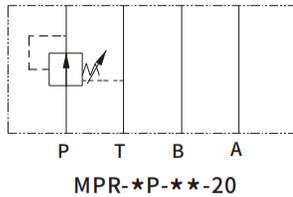
How to order

MPR -02 P -K -1 -20 -V



Modular valve

● Symbols



● Specification

Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MPR-02P/A/B-**-**	315	250	35.0	1.2
MPR-03P/A/B-**-**			70.0	3.3
MPR-04P/A/B-**-**			300.0	7.5
MPR-06P/A/B-**-**			190.0	11.6
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12 ,25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

Note:

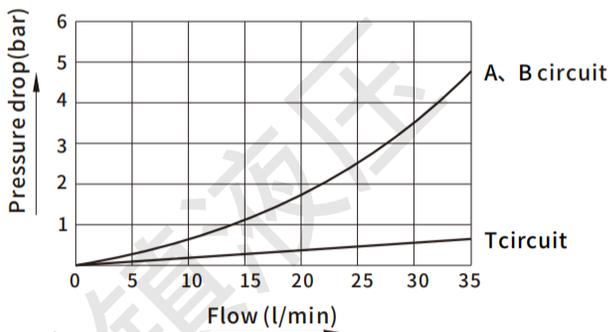
Pressure setting: Adjust the screw or handle clockwise to increase the pressure, counterclockwise to reduce the pressure, after the pressure adjustment, please lock the hex nut or plastic mounting nut.

MPR-02*Series

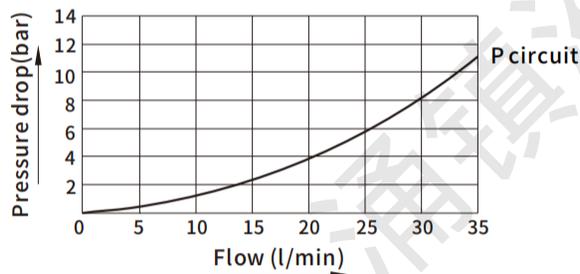
Test conditions: Viscosity: 35cSt; Temperature: 50°C

● Characteristic curve

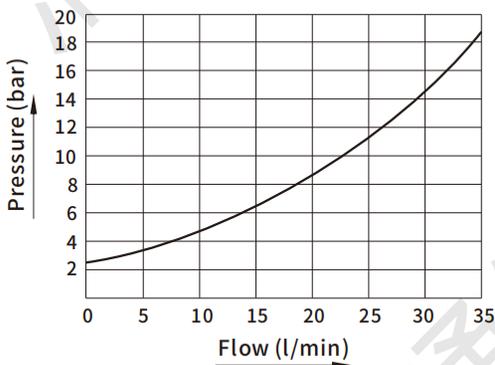
Pressure drop



Pressure drop when the slider is fully open



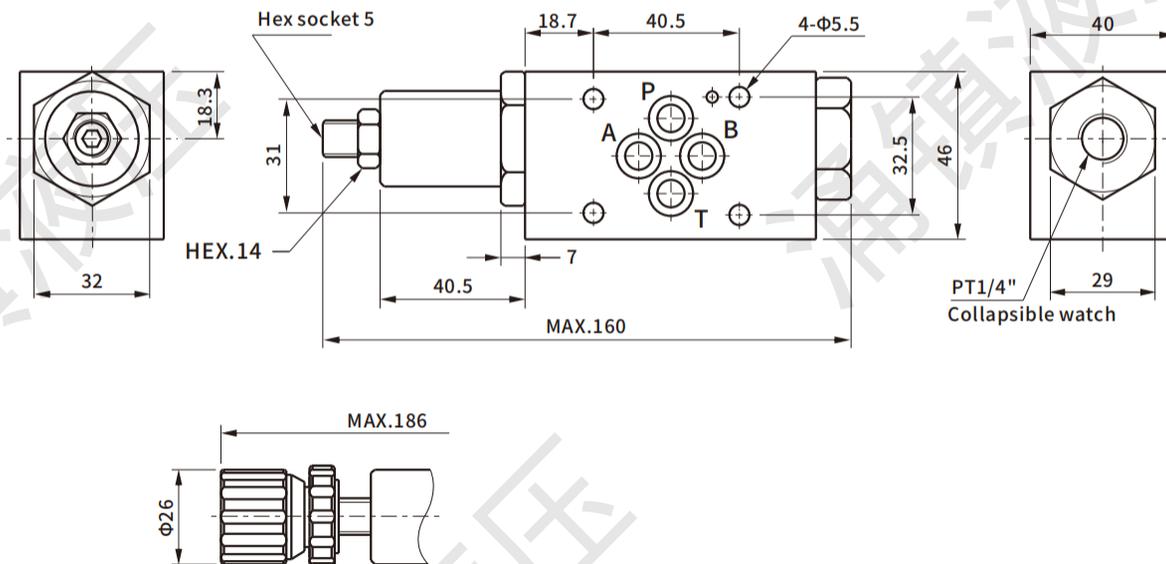
Min. adjusting pressure-Max. flow



● Dimensions

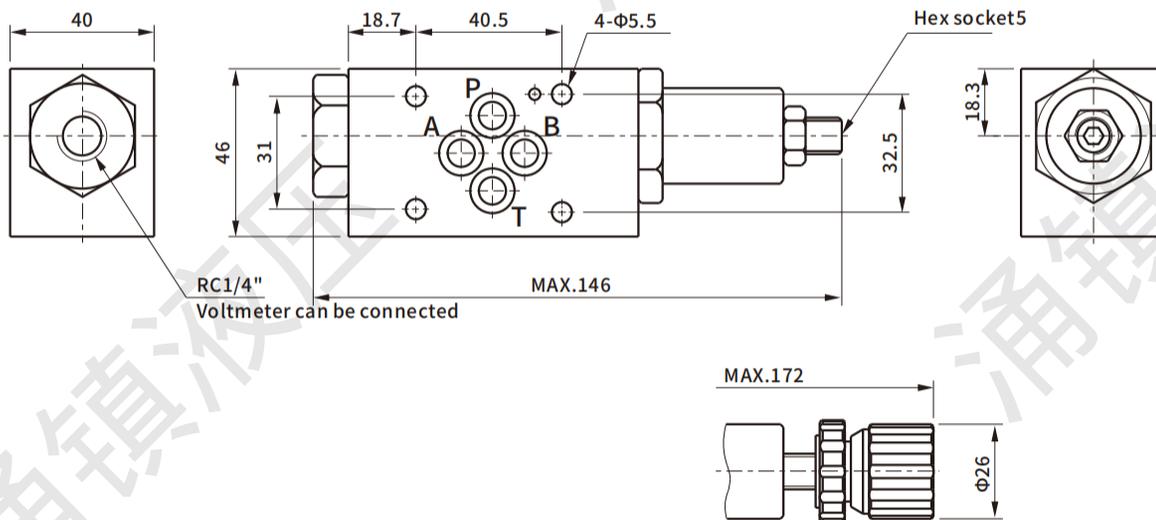
MPR-02B-***

Installation surface: ISO 4401-AB-03-4-A

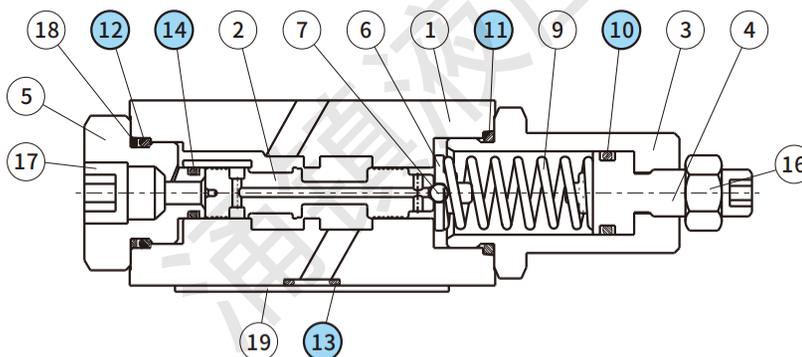


MPR-02A/P-**

Installation surface: ISO 4401-AB-03-4-A



● Sealing elements



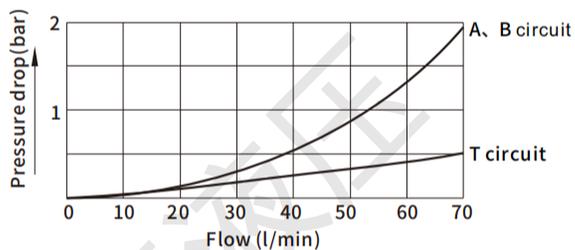
No.	Parts	Model	Quantity	No.	Parts	Model	Quantity
10	O-ring	P14 HS70	1	13	O-ring	AS568-012 HS90	4
11	O-ring	P22 HS90	1	14	O-ring	P8 HS70	1
12	O-ring	P20 HS90	1				

MPR-03*Series

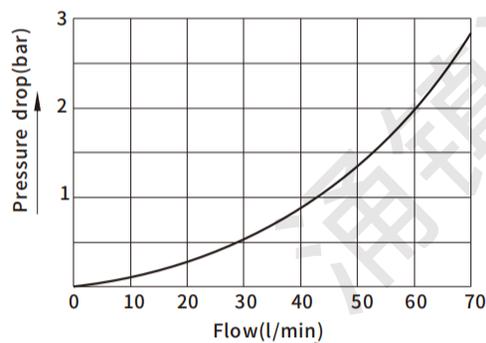
● Characteristic curve

Test conditions: Viscosity: 35cSt; Temperature: 50°C

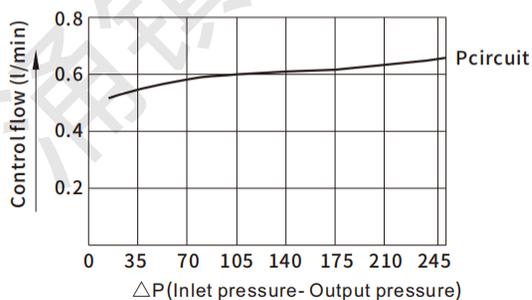
Pressure drop



Pressure drop when the slider is fully open



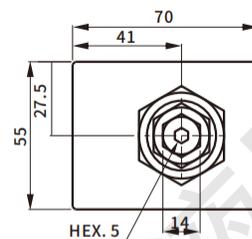
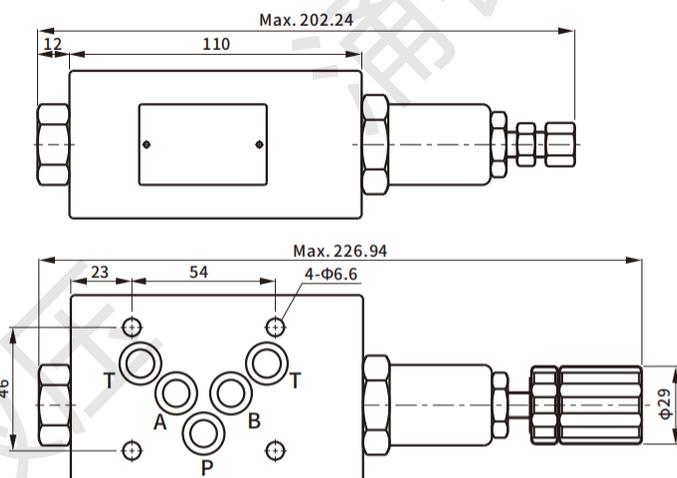
Control flow



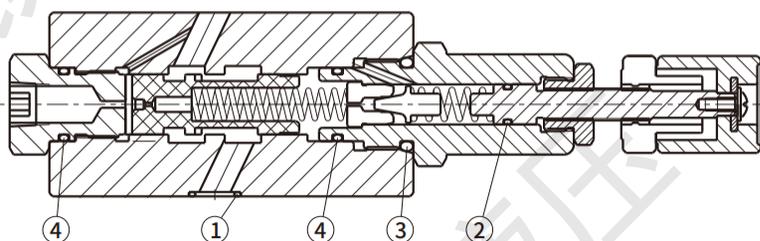
● Dimensions

MPR-03P/A/B-***

Installation surface: ISO 4401-AC-05-4-A



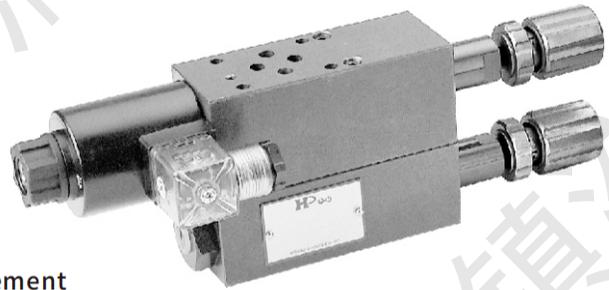
● Sealing elements



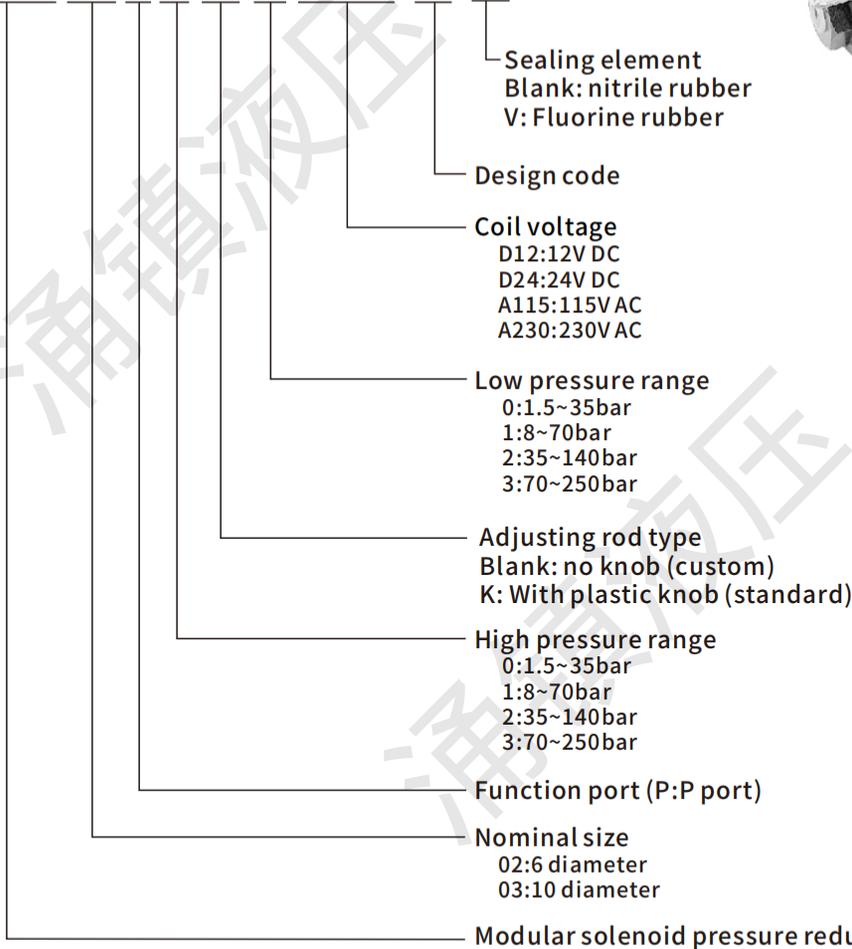
No.	Parts	Model
1	O-ring	AS568-014 HS90°
2	O-ring	P9 HS70°
3	O-ring	P22A HS70°
4	O-ring	P18 HS70°

MSPR Series

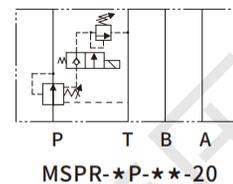
How to order



MSPR-02P-1-K-1-A230-20-V



● Symbols



● Specification

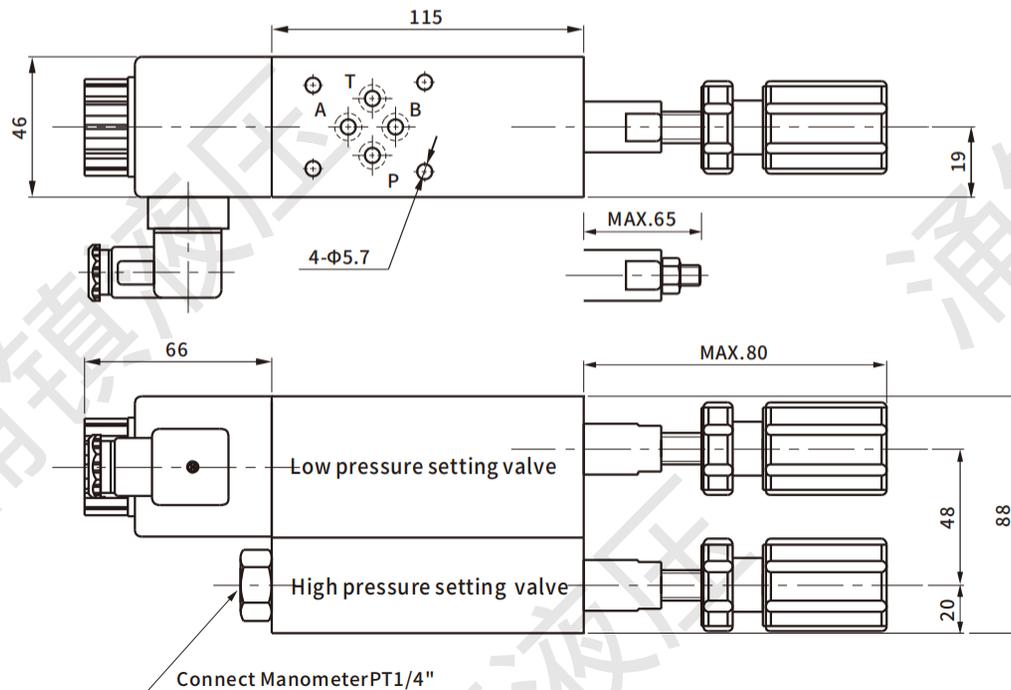
Mode	Rated pressure (bar)	Max. flow (l/min)	Pressure range (bar)	Weight (kg)
MSPR-02P-★-★-★	250	35	0: 1.5~35 1: 8~70 2: 35~140 3: 70~250	4.8
MSPR-03P-★-★-★		70		8.2
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12,25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

Dimensions

Units: mm

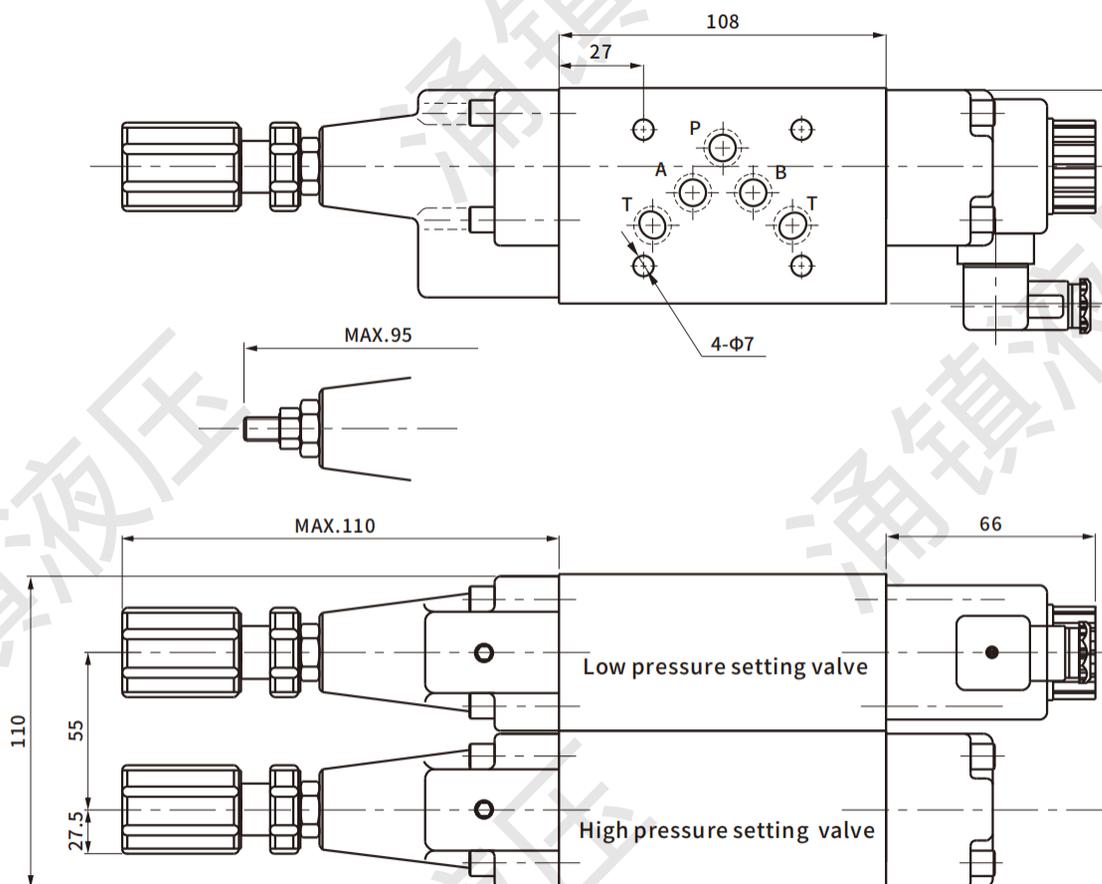
Installation surface: ISO 4401-AB-03-4-A

● MSPR-02P-**



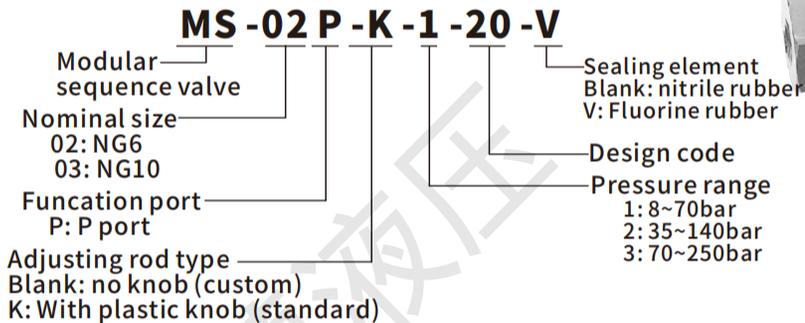
● MSPR-03P-**

Installation surface: ISO 4401-AC-05-4-A

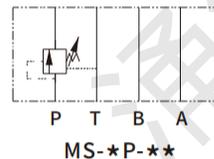


MS Serie

How to order



● Symbols



● Specification

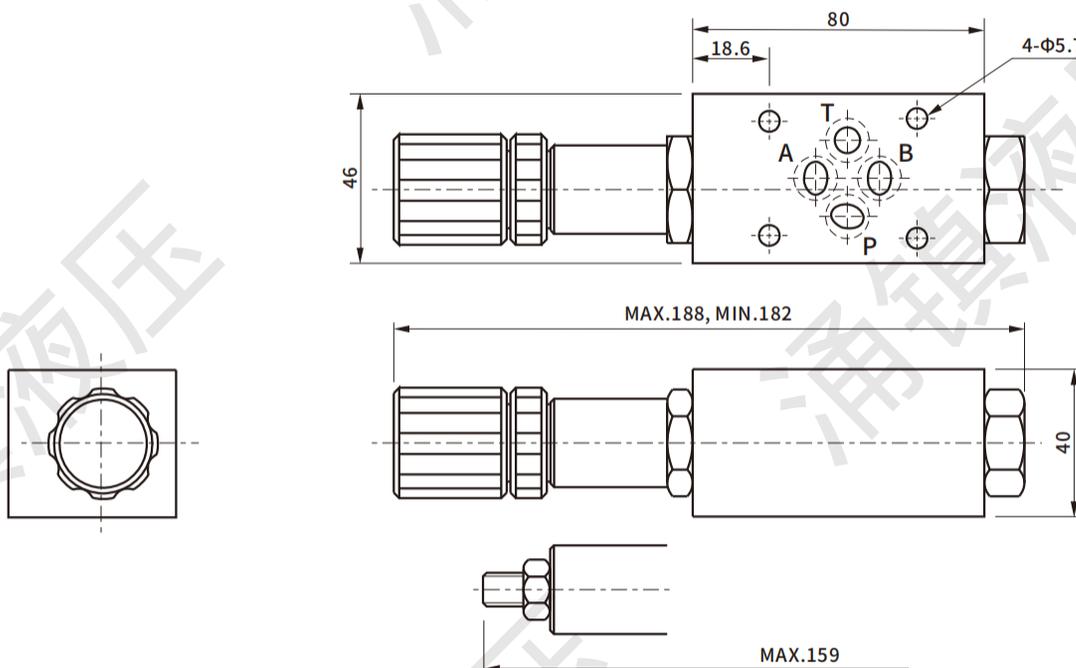
Mode	Rated pressure (bar)	Max. flow (l/min)	Pressure range (bar)	Weight (kg)
MS-02P-★★-★★	250	35	1: 8~70	1.2
MS-03P-★★-★★		70	2: 35~140 3: 70~250	4.2
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12, 25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

Dimensions

● MS-02P-★★-20

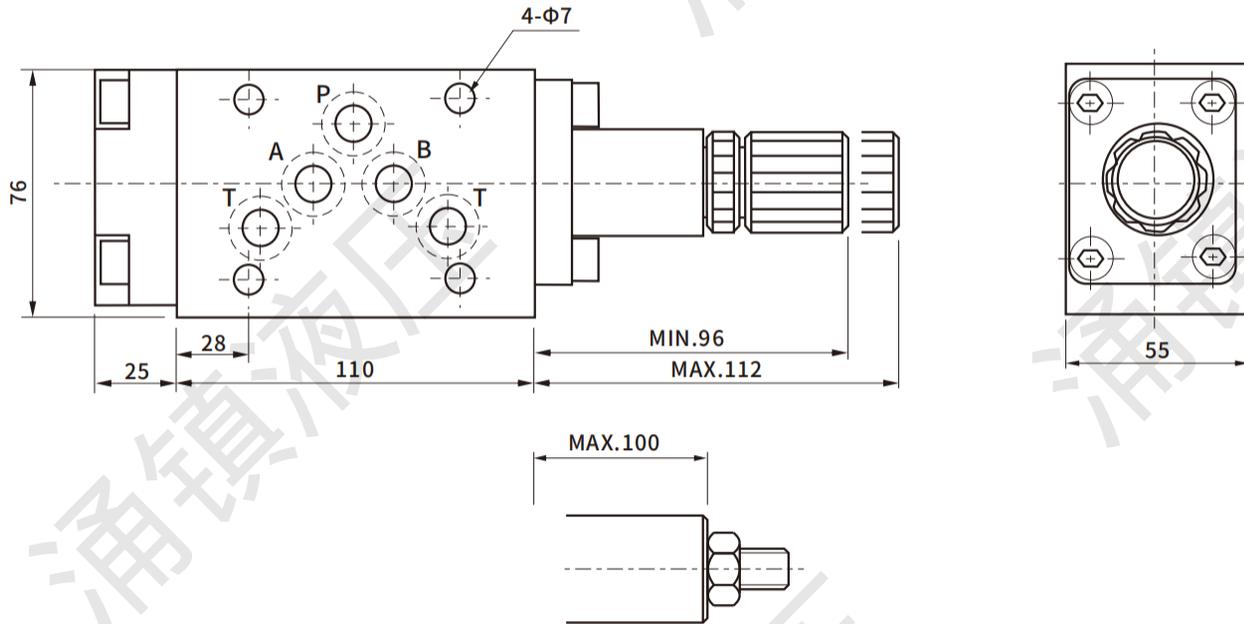
Units: mm

Installation surface: ISO 4401-AB-03-4-A



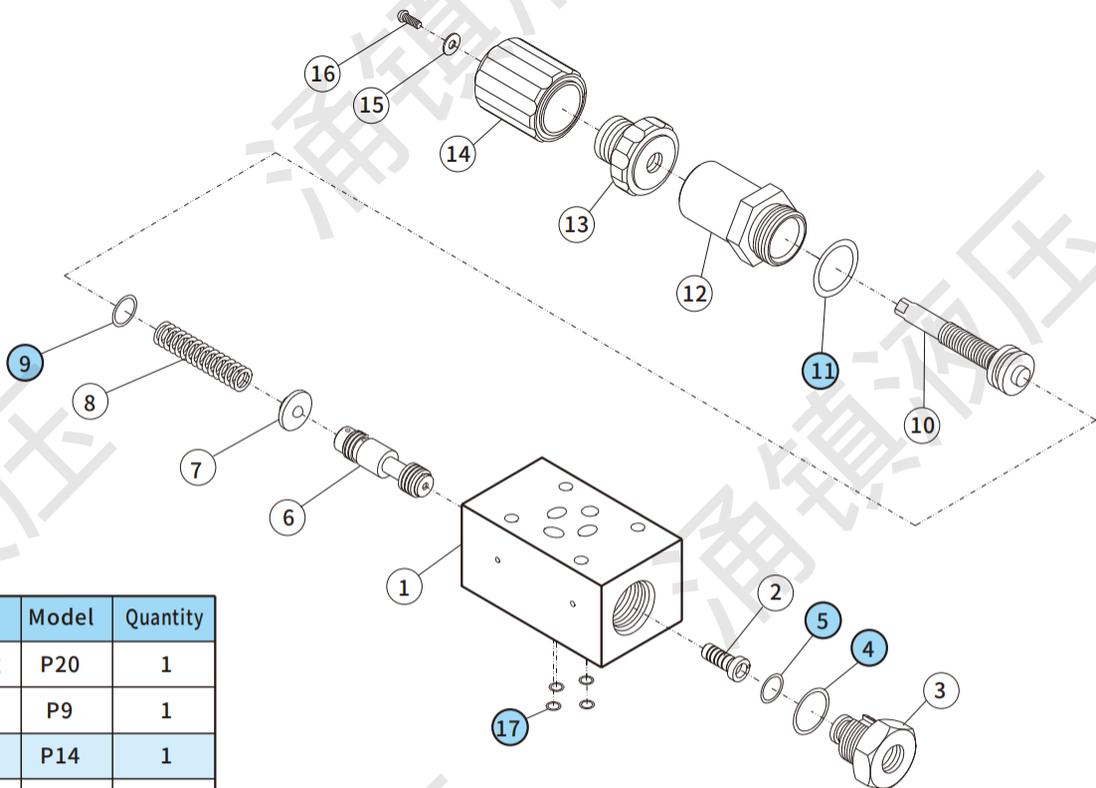
● **MS-03P-**-****

Installation surface: ISO 4401-AC-05-4-A



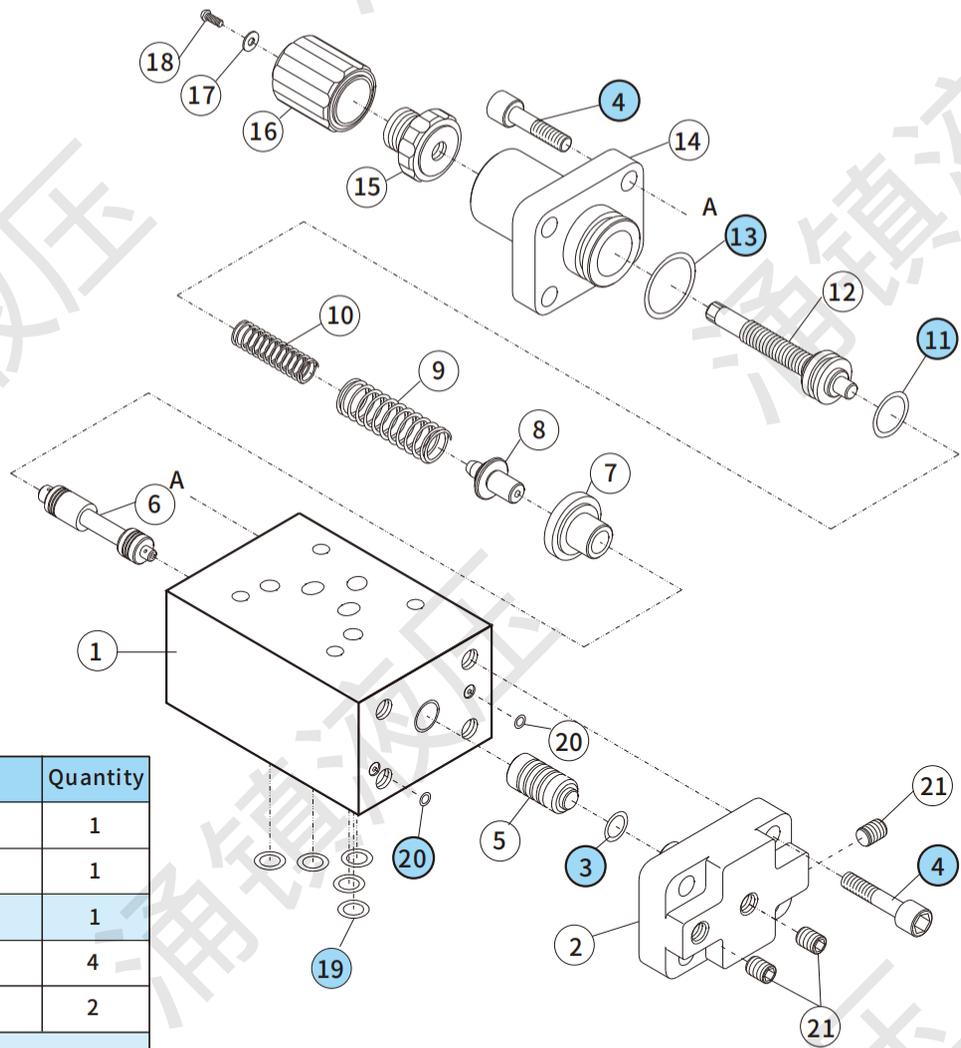
Sealing elements

● **MS-02P-**-20**



No.	Parts	Model	Quantity
4	O-ring	P20	1
5	O-ring	P9	1
9	O-ring	P14	1
11	O-ring	P22	1
17	O-ring	P9	4

● MS-03P-**-20



No.	Parts	Model	Quantity
3	O-ring	P10A	1
11	O-ring	P16	1
13	O-ring	P25	1
19	O-ring	P12	4
20	O-ring	P6	2
Install attachment			
4	Hexagon socket bolt	M8×1.25×25L	8

Modular valve

MCS Series

How to order

MCS-02 A-K-1-20-V

Modular Balance Valve

Nominal size
02: NG6; 03: NG10
04: NG16; 06: NG20

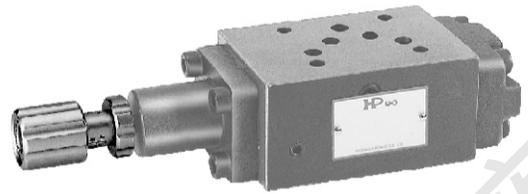
Function port
A: A port; B: B port

Adjusting rod type
Blank: no knob (custom)
K: With plastic knob (standard)

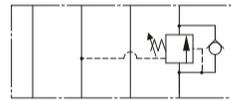
Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code

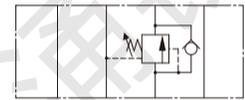
Pressure range
1: 8~70bar
2: 35~140bar
3: 70~250bar



● Symbols



MCS-*A-**



MCS-*B-**

● Specification

Mode	Rated pressure (bar)	Pressure range (bar)	Max. flow (l/min)	Weight (kg)
MCS-02A/B-**	250	1: 8~70bar 2: 35~140bar 3: 70~250bar	35.0	1.5
MCS-03A/B-**			70.0	4.5
MCS-04A/B-**			300.0	7.5
MCS-06A/B-**			190.0	14.0
Oil	ISO VG 32,46,68	Pollution standards	≤NAS 12, 25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

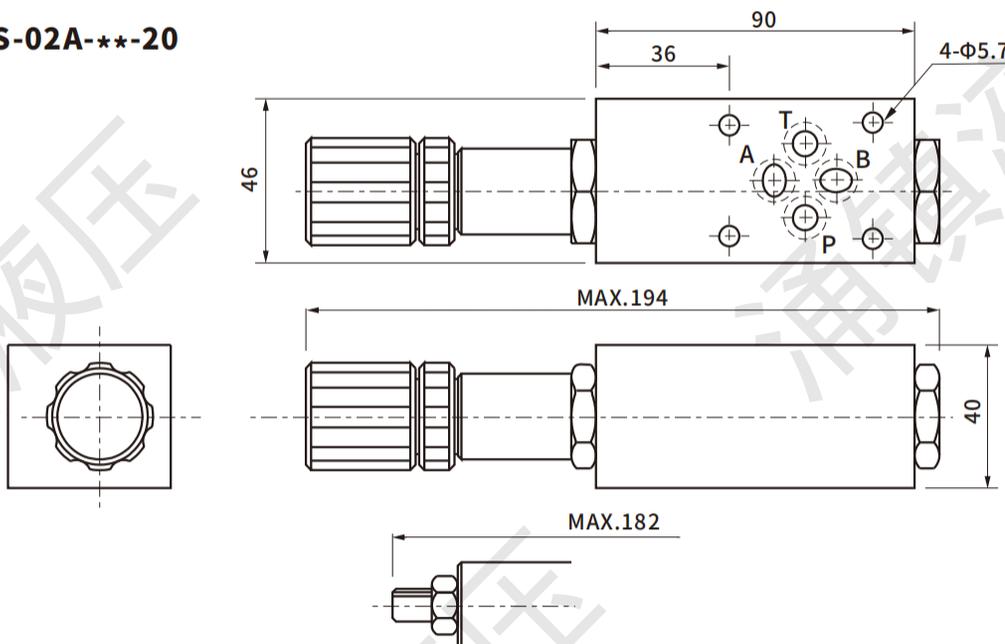
MCS-02** Series

● Dimensions

MCS-02A--20**

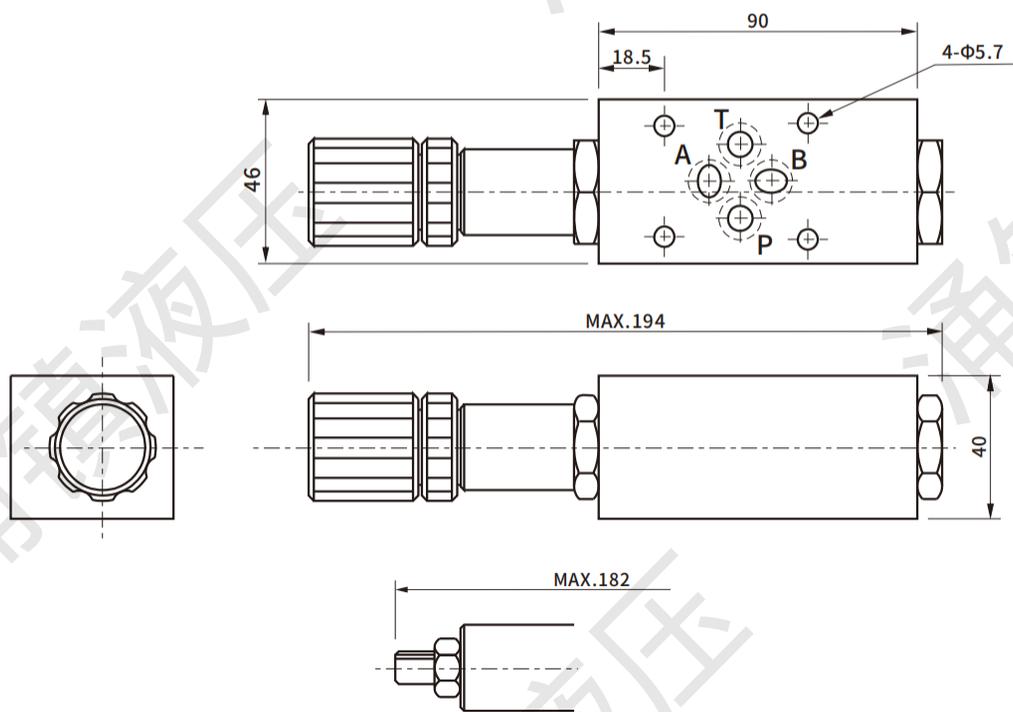
Units: mm

Installation surface: ISO 4401-AB-03-4-A

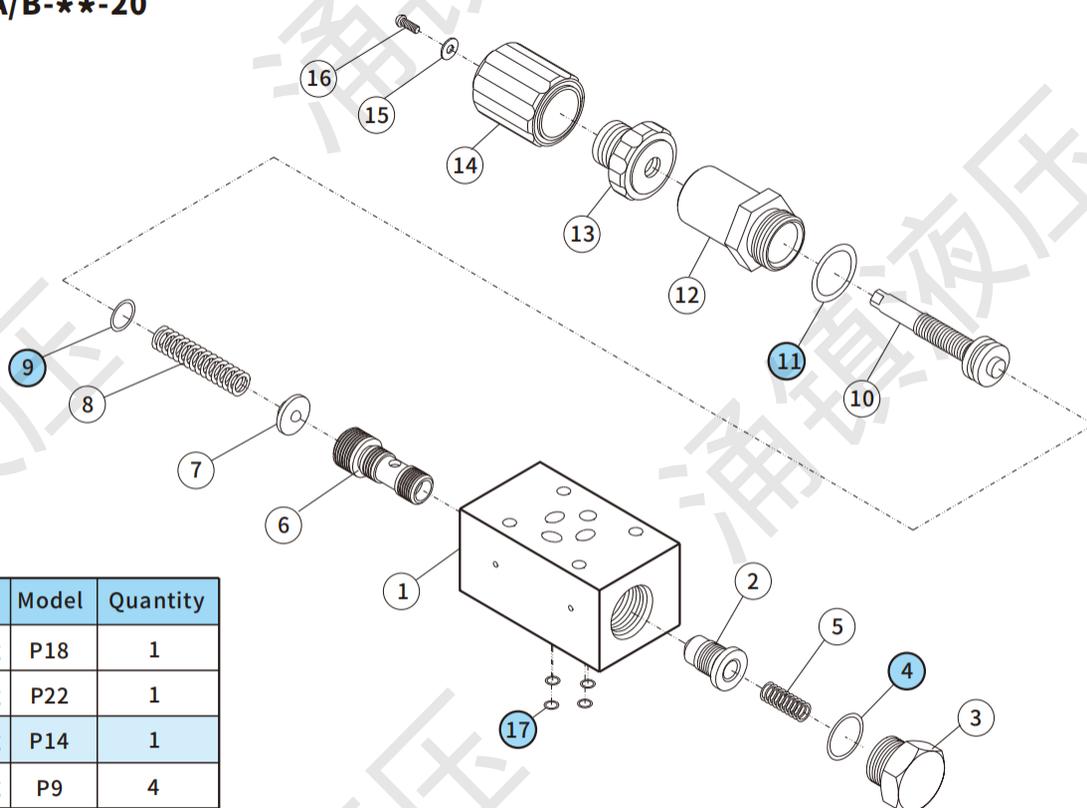


MCS-02B-**-20

Installation surface: ISO 4401-AB-03-4-A



● Sealing elements
MCS-02A/B-**-20



No.	Parts	Model	Quantity
4	O-ring	P18	1
9	O-ring	P22	1
11	O-ring	P14	1
17	O-ring	P9	4

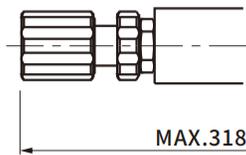
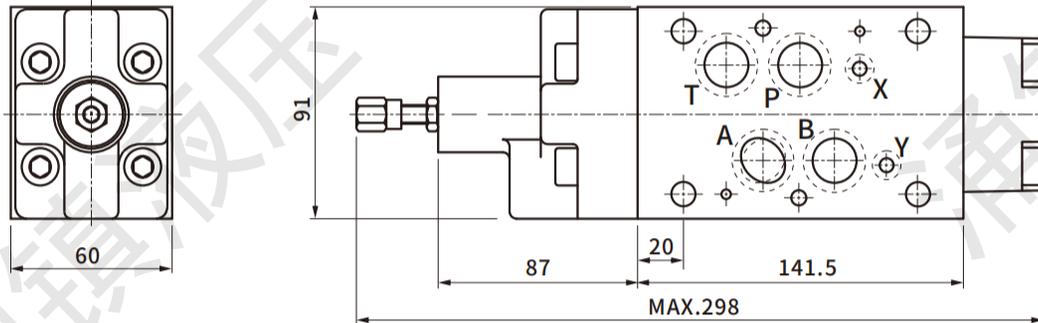
MCS-04**series

● Dimensions

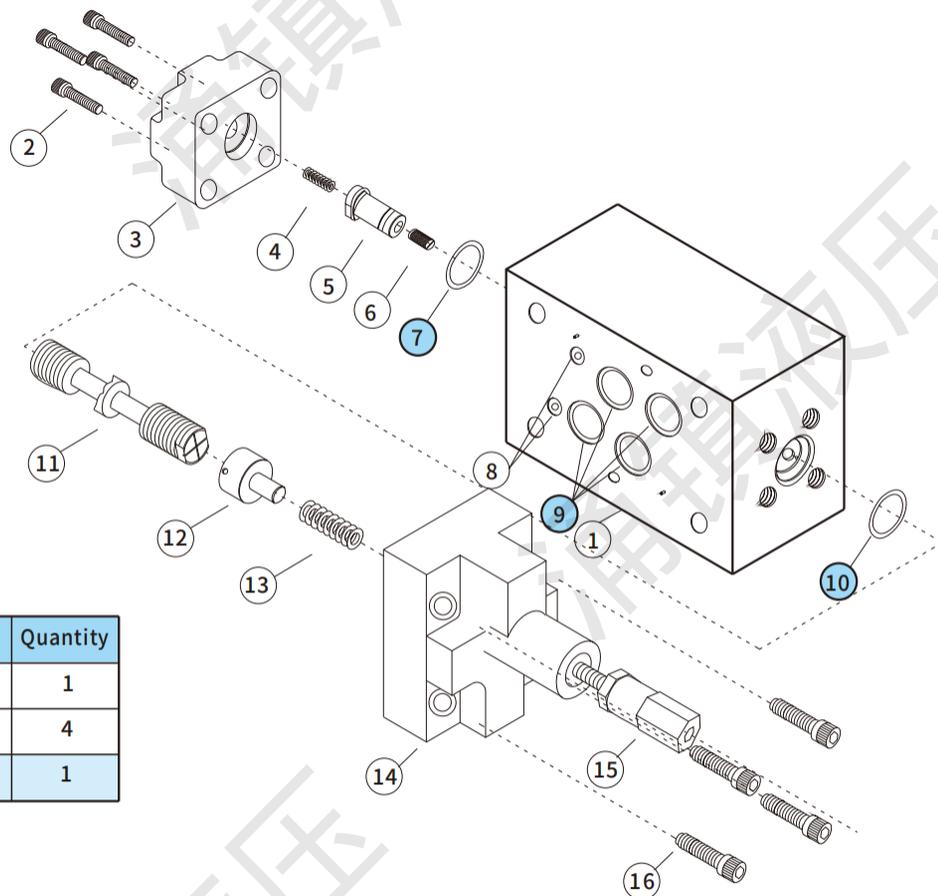
MCS-04A--20**

Units: mm

Installation surface: ISO 4401-AE-05-4-A



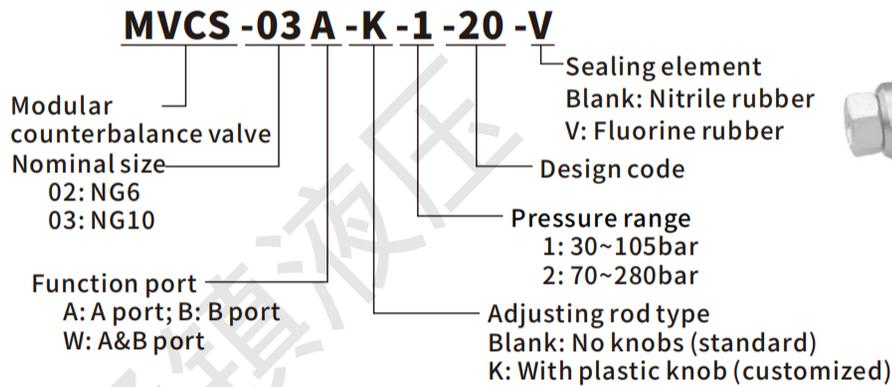
● Sealing elements



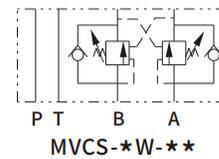
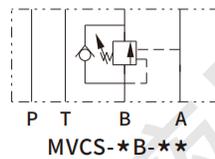
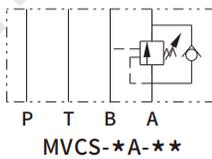
No.	Parts	Model	Quantity
7	O-ring	G35	1
9	O-ring	AS119	4
10	O-ring	G35	1

MVCS Series

How to order



● Symbols



● Specification

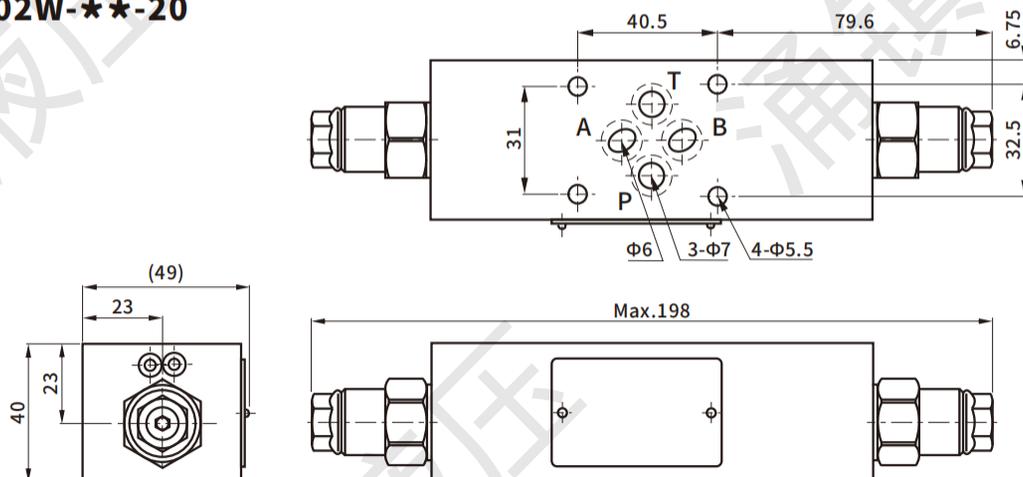
Mode	Max. flow (l/min)	Max. pressure (bar)	Pilot ratio (bar)	Pressure range (bar)	Weight (kg)
MVCS-02A/B-★★	60	350	3:1	1: 30~105	1.8
MVCS-02W-★★					2.0
MVCS-03A/B-★★	120			2: 70~280	3.1
MVCS-03W-★★				3.5	

Dimensions

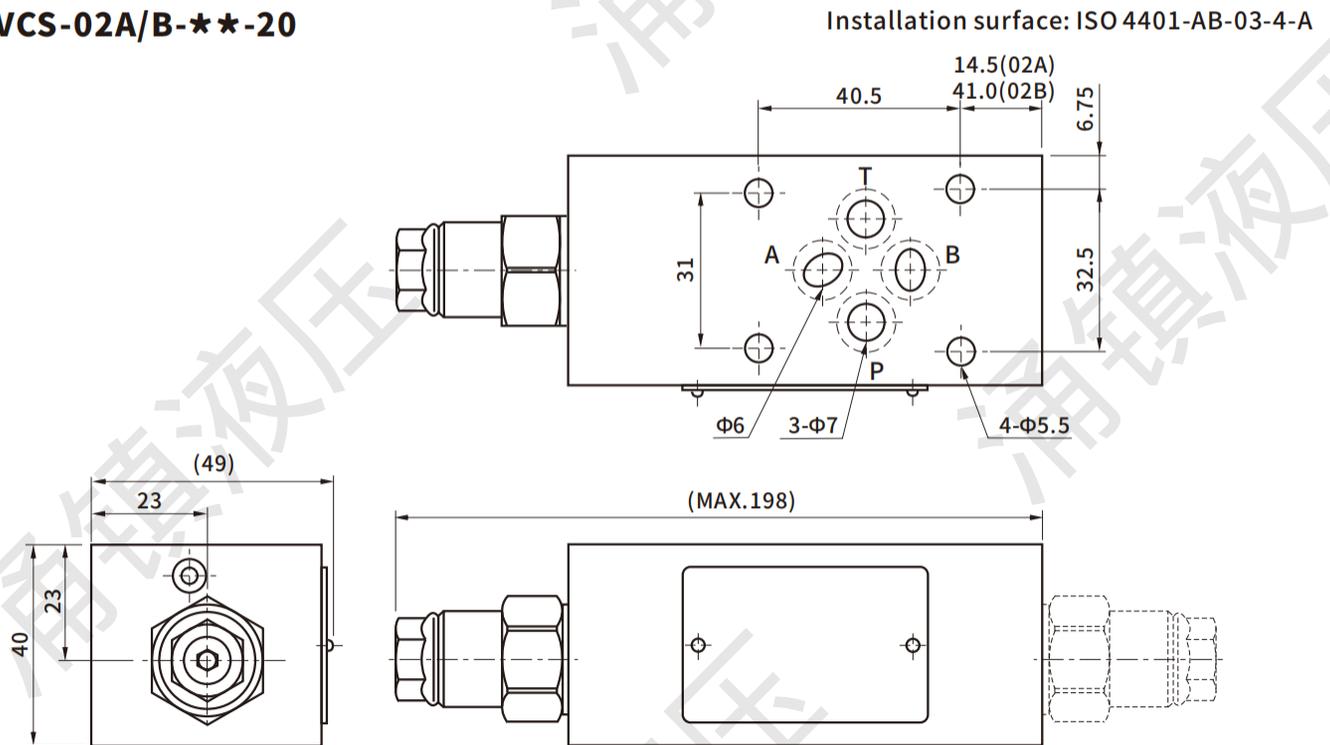
Units: mm

Installation surface: ISO 4401-AB-03-4-A

● MVCS-02W-★★-20

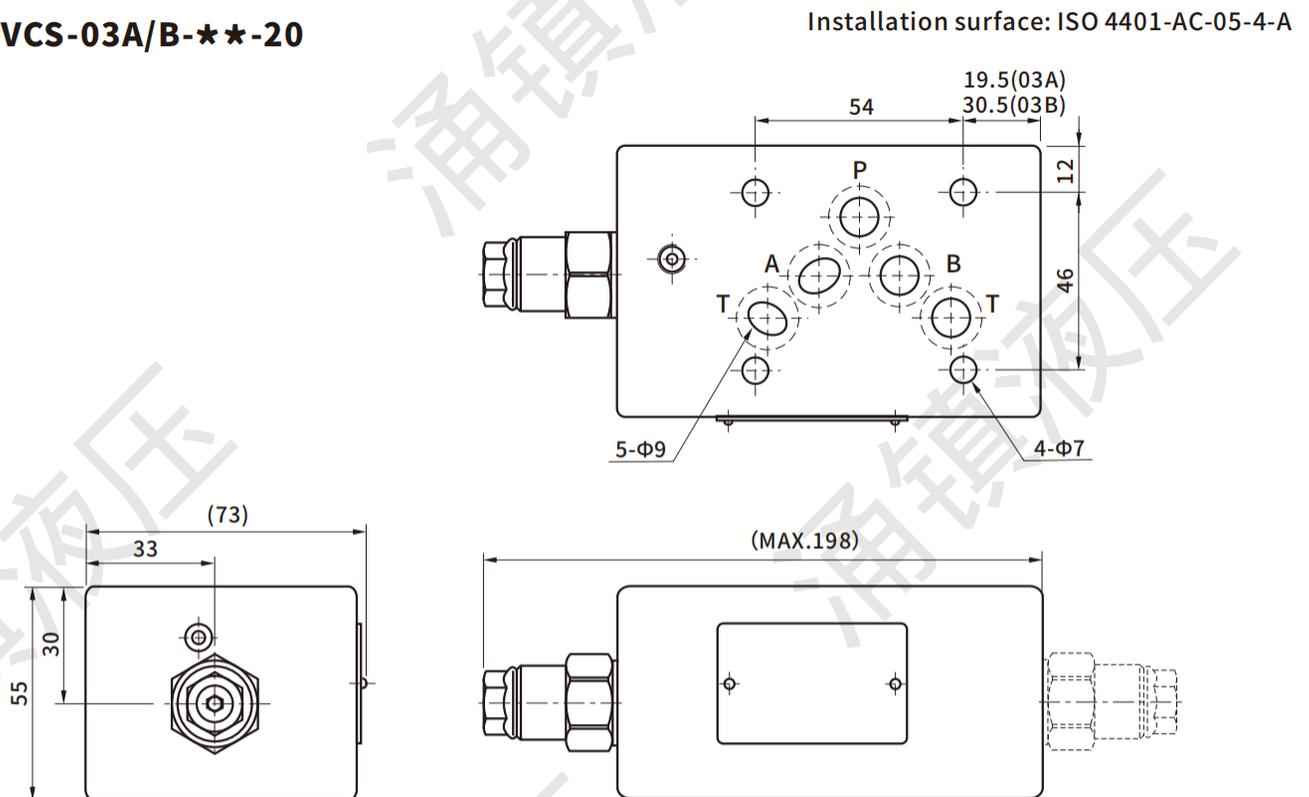


● **MVCS-02A/B-**-20**



Note: The dashed line in the figure indicates that the adjustment handle is on side B(MVCS-02B-**-20).

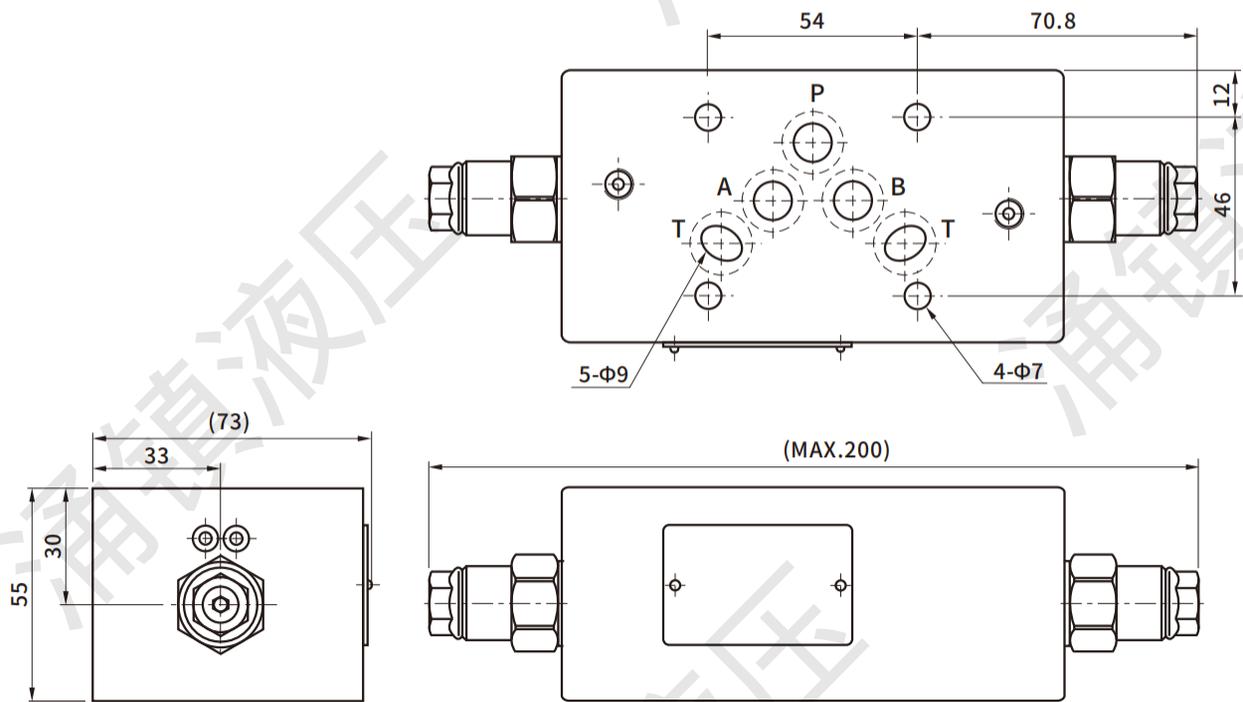
● **MVCS-03A/B-**-20**



Note: The dashed line in the figure indicates that the adjustment handle is on side B(MVCS-03B-**-20).

● MVCS-03W-**-20

Installation surface: ISO 4401-AC-05-4-A



Modular valve

MC Series

How to order

MC-02 P-05-20-V

Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code
20: standard (02/03 optional)
80: high-pressure (02/03/04/06 optional)

Opening pressure
05: 0.35bar
50: 3.5bar

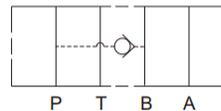
Function port
P: P port; A: A port;
B: B port; T: T port
BP: B→P port; W: A&B port

Nominal size
02: NG6; 03: NG10
04: NG16; 06: NG20

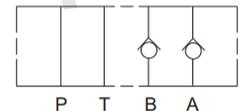
Modular check valve



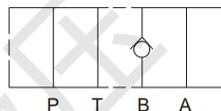
● Symbols



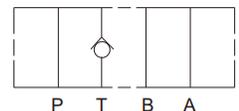
MC-*BP-**



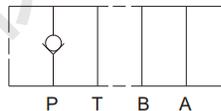
MC-*W-**



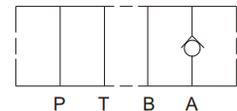
MC-*B-**



MC-*T-**



MC-*P-**



MC-*A-**

Note: See the specification table for the functional action holes of each size.

● Specification

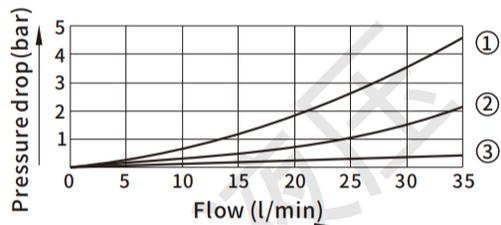
Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MC-02P/T/A/B/BP-**-20	315	250	35	1.0
MC-02W-**-20				1.2
MC-03P/T/A/B/BP-**-20	315	250	70	2.5
MC-03W-**-20				2.8
MC-02P/T/A/B-**-80	315	315	40	0.8
MC-03P/T/A/B-**-80	315	315	100	2.3
MC-04P/A/B/T-**-80	315	315	200	7.0
MC-06P/T/A/B-**-80			400	13.0
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12, 25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

MC-02*Series

Characteristic curve

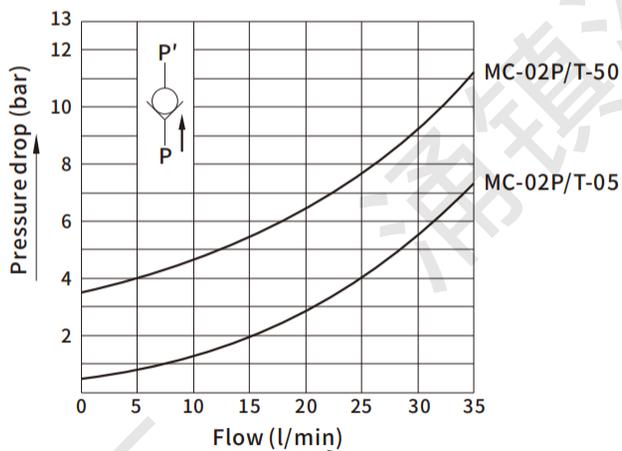
Test conditions: Viscosity: 35cSt; Temperature: 50°C

Pressure drop



- ① : A line (MC-02A-**-20)
- ② : B line (MC-02B-**-20)
- ③ : T line (MC-02P-**-20)
- P line (MC-02T-**-20)

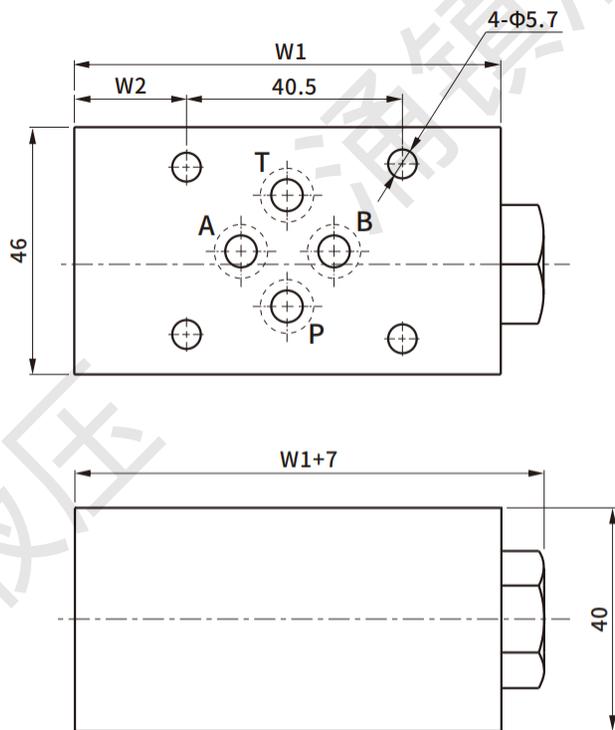
Free flow-pressure drop



Dimensions

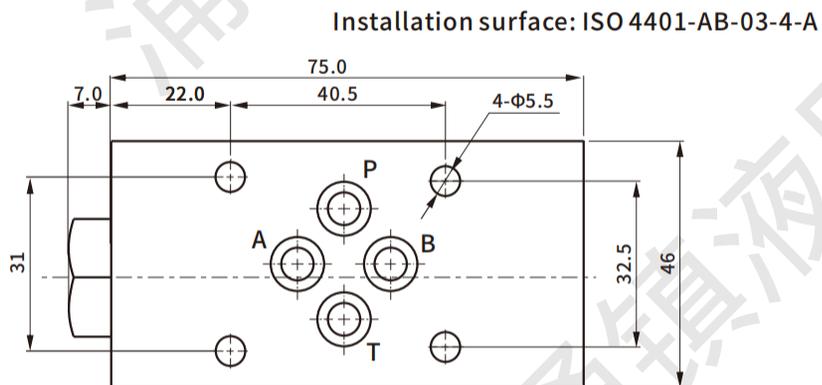
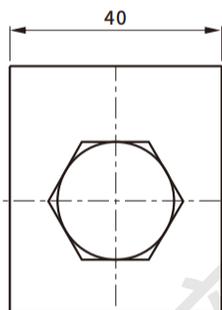
MC-02P/T/B/BP-**-**

Units:mm

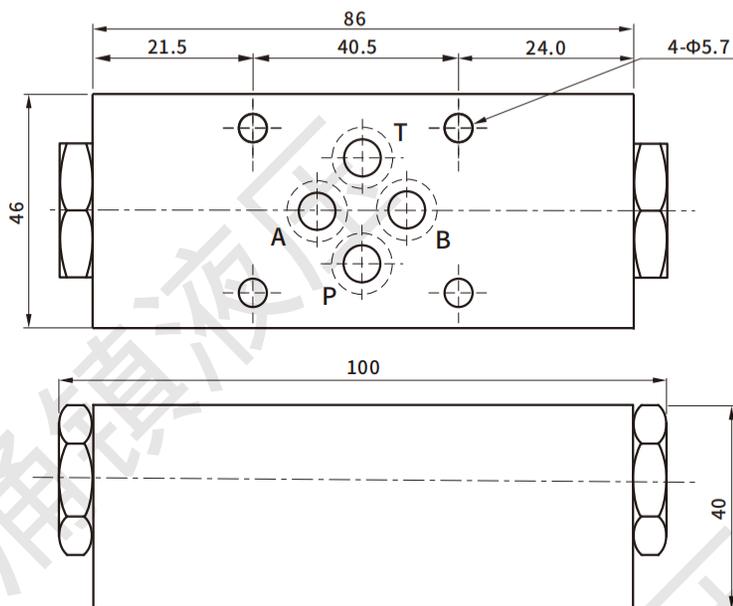
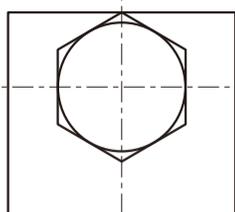


Installation surface	W2	W1
02P	8	73
02T	8	73
02B	9	75
02BP	14	80

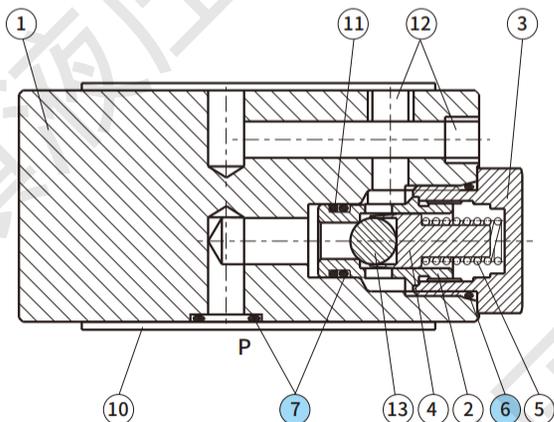
MC-02A-★★



MC-02W-★★



● Sealing elements



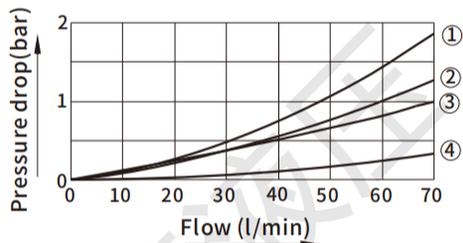
No.	Parts	Model	Quantity
6	O-ring	AS568-908 HS70	1
7	O-ring	AS568-012 HS90	5

MC-03* Series

● Characteristic curve

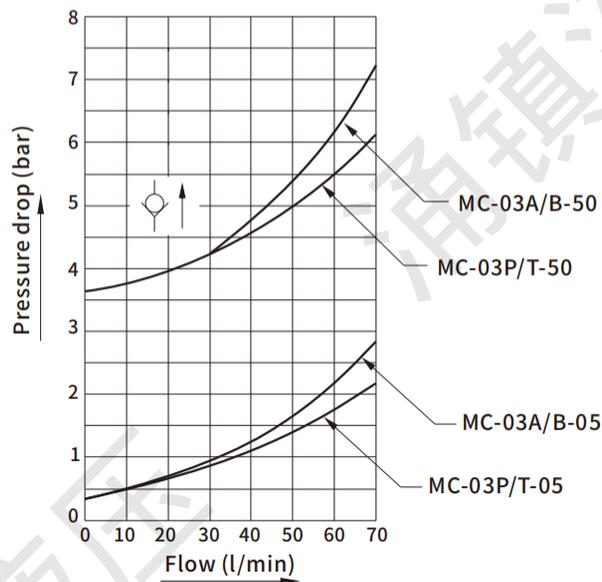
Test conditions: Viscosity: 35cSt; Temperature: 50°C

Pressure drop



- ①: A line (MC-03B/T-**-20)
 - ②: A, B line (MC-03P-**-20)
 - ③: T line (MC-03A/B-**-20)
 - ④: P line (MC-03A/B/T-**-20)
- B line (MC-03T-**-20)
T line (MC-03P-**-20)

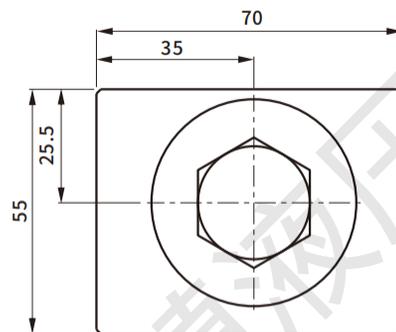
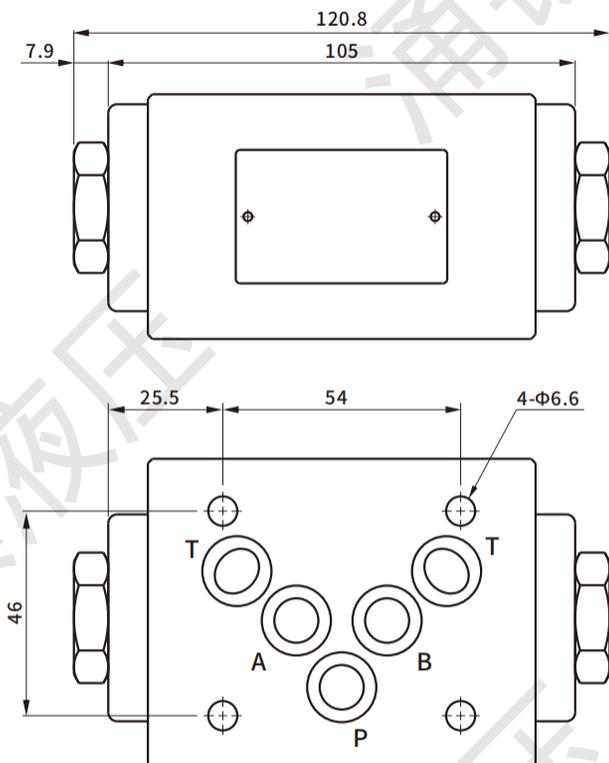
Free flow-pressure drop



● Dimensions

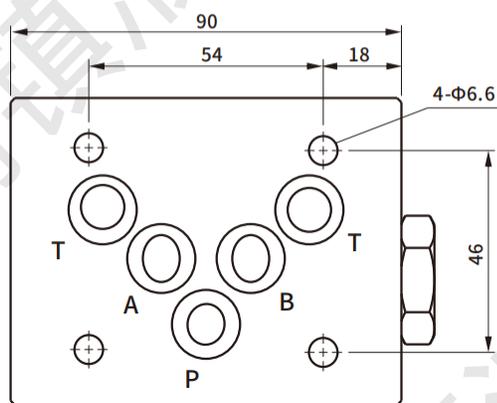
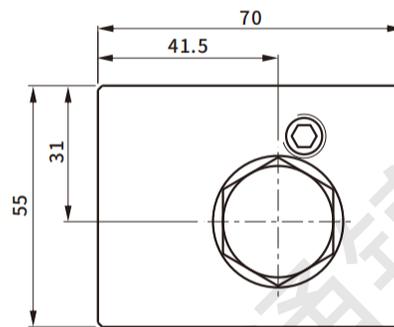
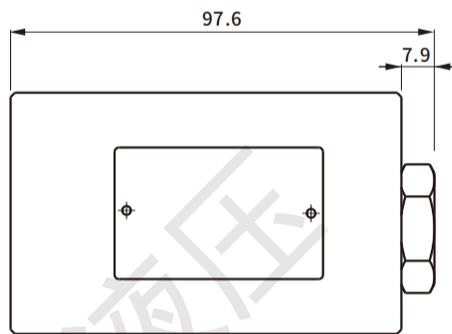
MC-03A/B/BP-**

Installation surface: ISO 4401-AC-05-4-A

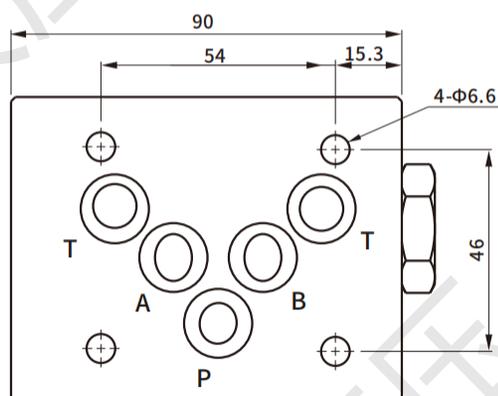
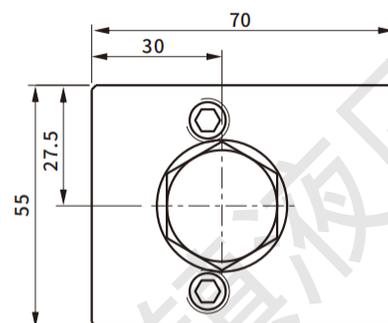
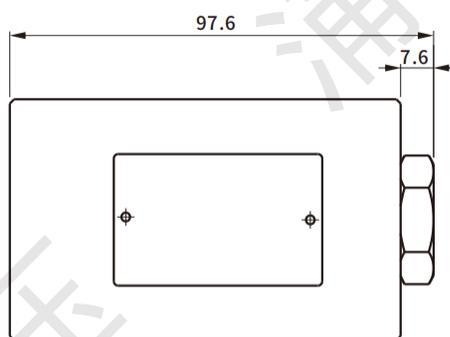


MC-03P-★★

Installation surface: ISO 4401-AC-05-4-A

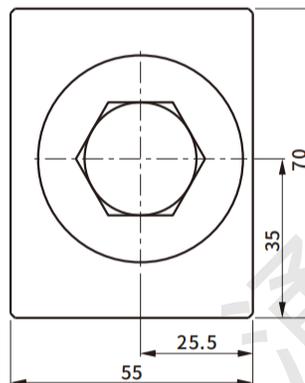
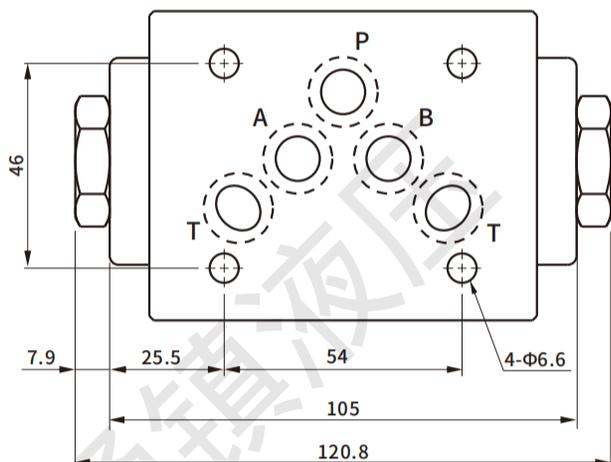


MC-03T-★★



MC-03W-***

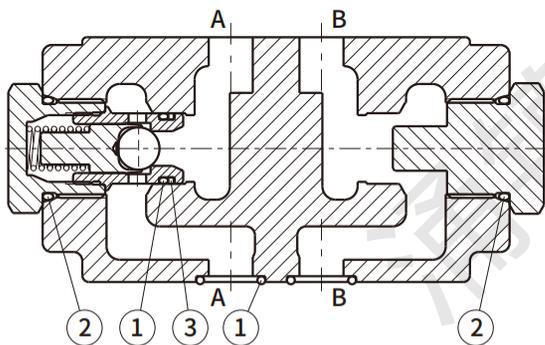
Installation surface: ISO 4401-AC-05-4-A



Modular valve

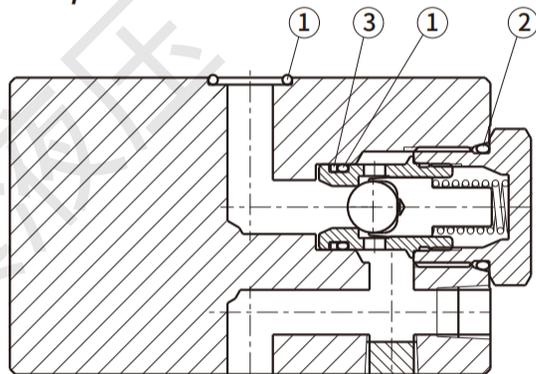
● Sealing elements

MC-03A/B-***



No.	Parts	Model
1	O-ring	AS568-014 HS90°
2	O-ring	AS568-910 HS70°
3	Benito ring back	AS-014 HS70°

MC-03P/T-***



No.	Parts	Model
1	O-ring	AS568-014 HS90°
2	O-ring	AS568-910 HS70°
3	Benito ring back	AS-014 HS70°

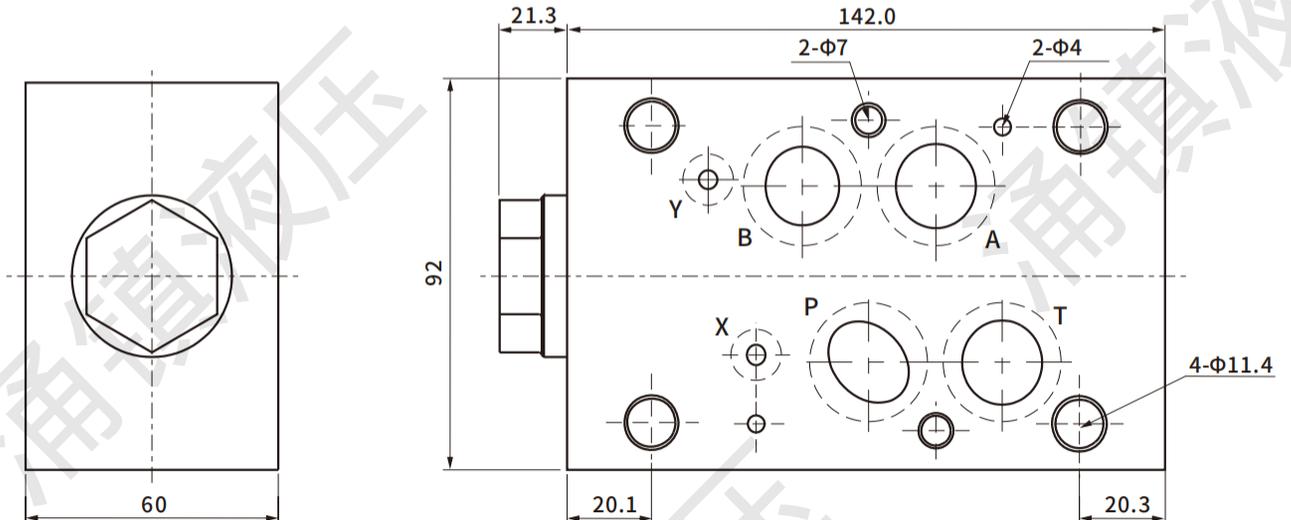
MC-04* Series

Units: mm

● Dimensions

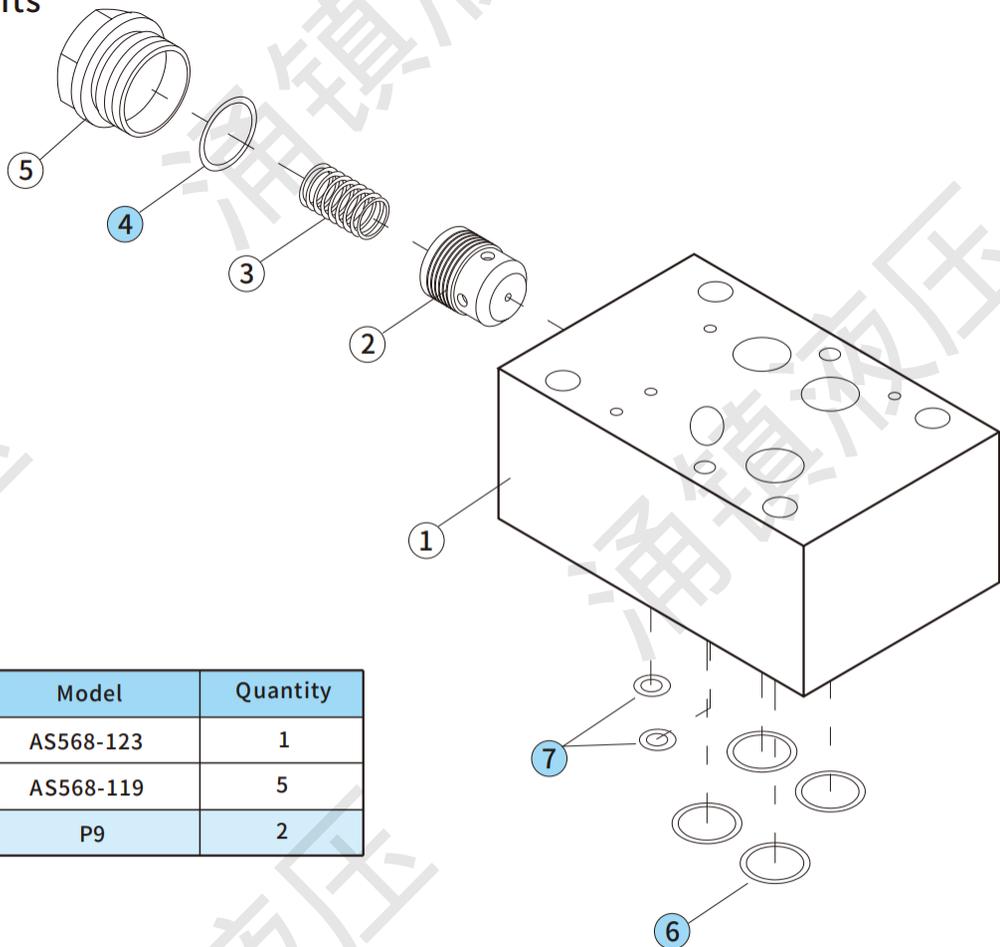
Installation surface: ISO 4401-AD-07-4-A

MC-04P-**



Note: MC-04A/B/T is customized, please consult our company separately.

● Sealing elements

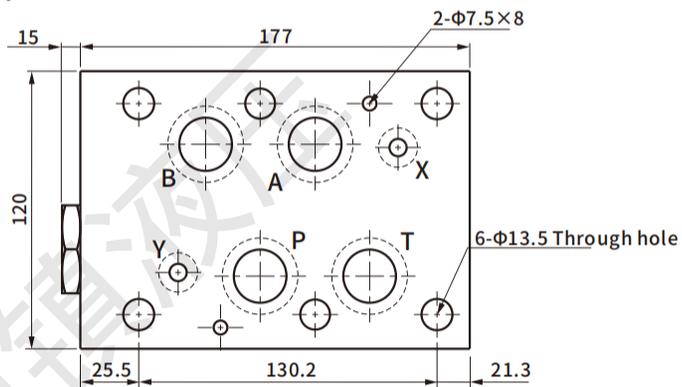


No.	Parts	Model	Quantity
4	O-ring	AS568-123	1
6	O-ring	AS568-119	5
7	O-ring	P9	2

MC-06*Series

● Dimensions

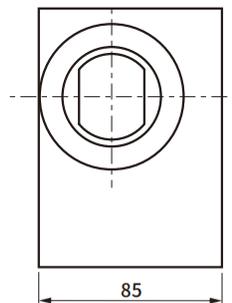
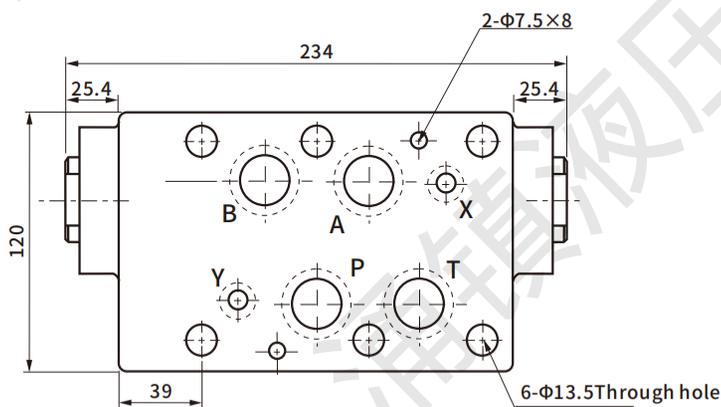
MC-06P/T-**



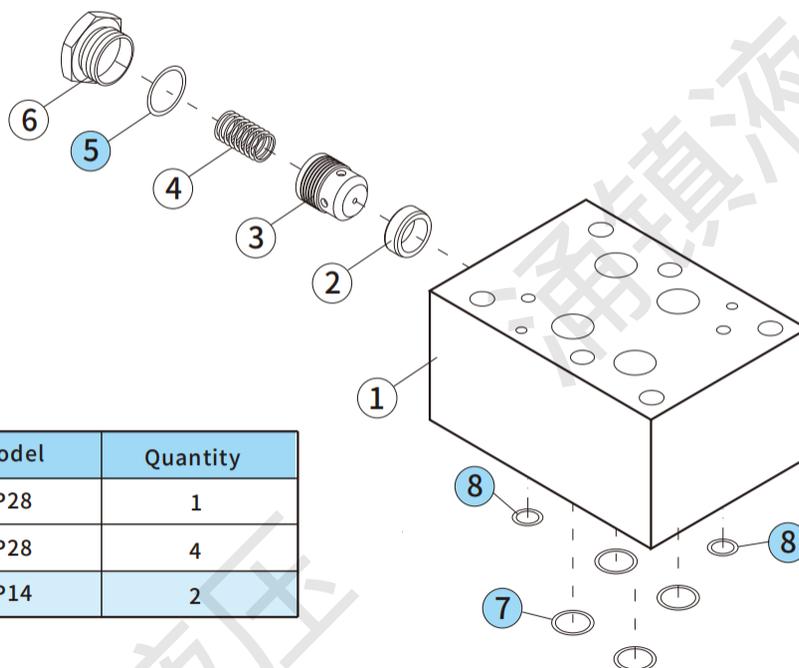
Units: mm
Installation surface: ISO 4401-AE-08-4-A



MC-06A/B-**



● Sealing elements

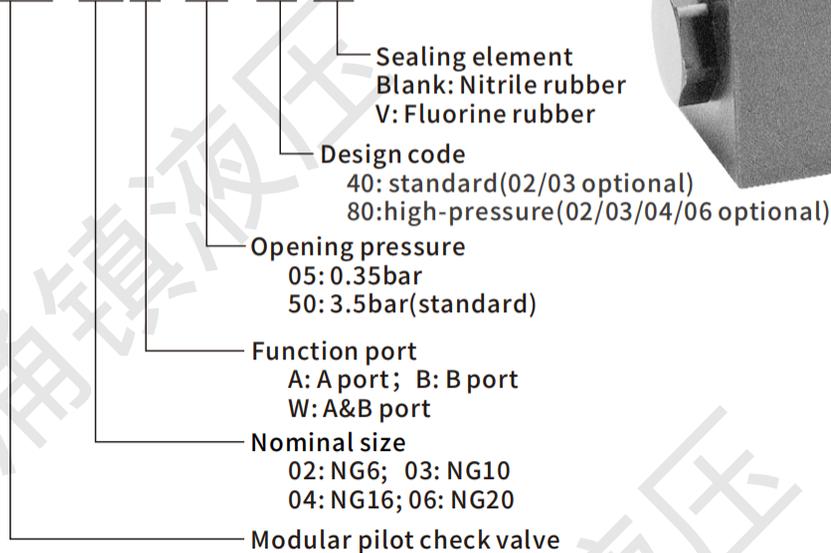


No.	Parts	Model	Quantity
5	O-ring	P28	1
7	O-ring	P28	4
8	O-ring	P14	2

MPC Series

How to order

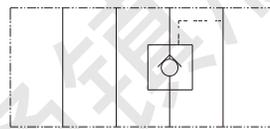
MPC-02 A-05-40-V



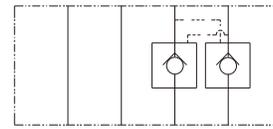
● Symbols



P T B A
MPC-***A**-**



P T B A
MPC-***B**-**



P T B A
MPC-***W**-**

● Specification

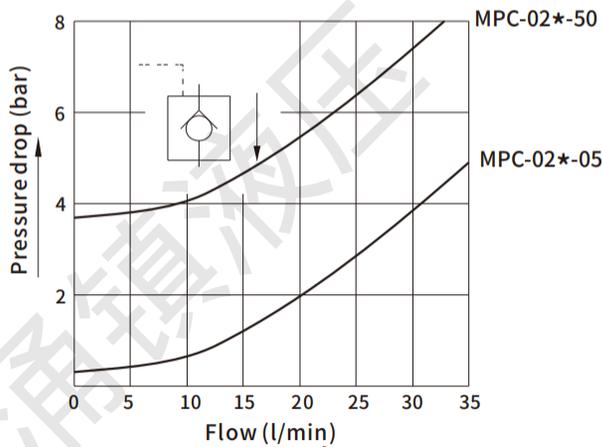
Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MPC-02A/B/W-**-40	315	250	35.0	1.1
MPC-03A/B/W-**-40			70.0	2.6
MPC-02A/B/W-**-80	315	315	60.0	1.0
MPC-03A/B/W-**-80			120.0	3.0
MPC-04A/B/W-**-80			300.0	6.8
MPC-06A/B/W-**-80			450.0	12.8
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12, 25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

MPC-02* Series

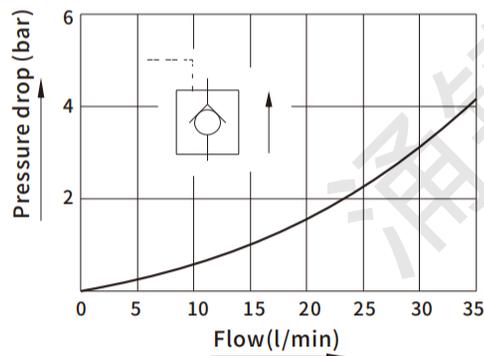
Test conditions: Viscosity: 35cSt; Temperature: 50°C

Characteristic curve

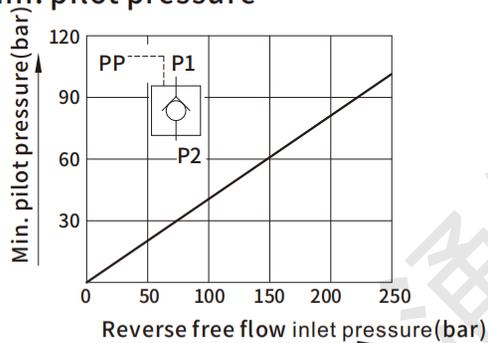
Free flow-pressure drop



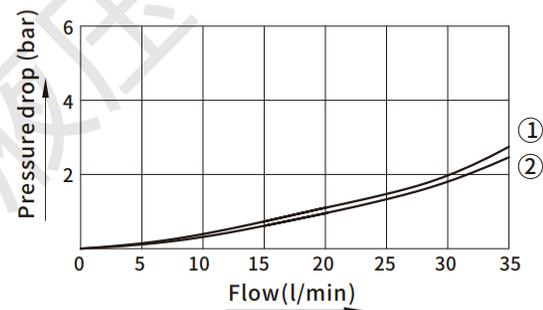
Reverse free flow-pressure drop



Min. pilot pressure



Pressure drop

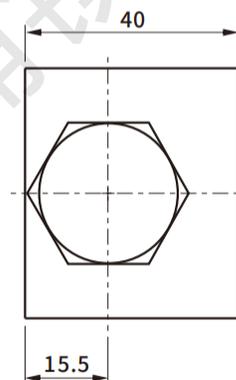
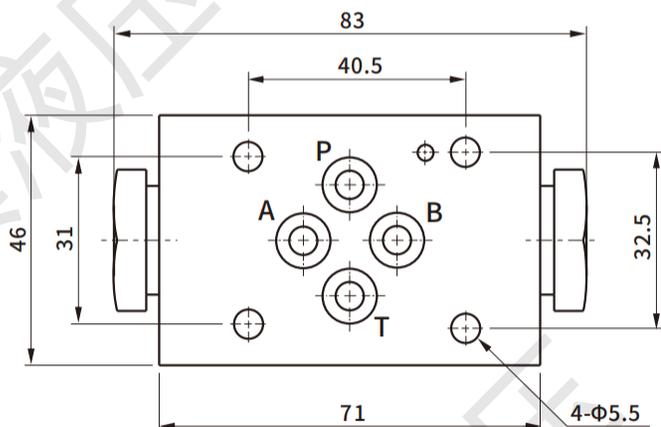


① : B line for MPC-02A, A line for MPC-02B
② : P, T line

Dimensions

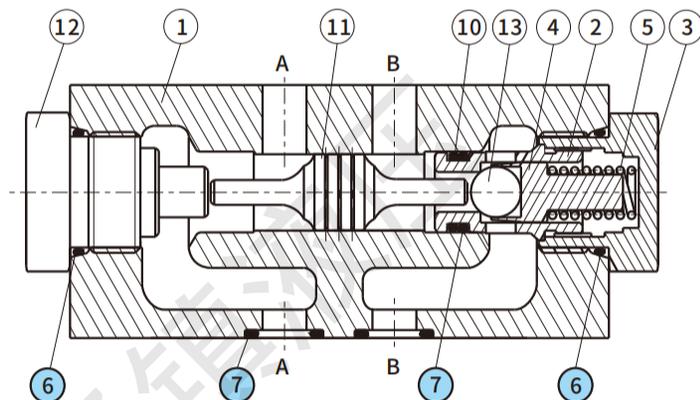
MPC-02A/B/W-**

Installation surface: ISO 4401-AB-03-4-A



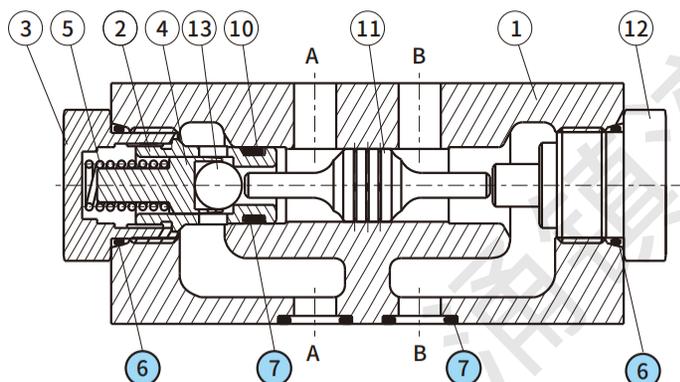
● Sealing elements

MPC-02B-***



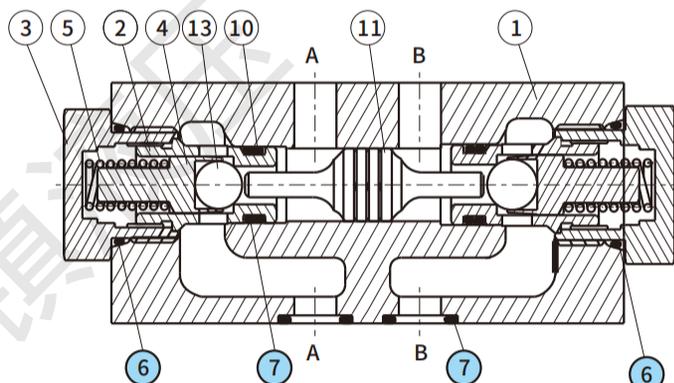
No.	Parts	Model	Quantity
6	O-ring	AS568-908 HS70	2
7	O-ring	AS568-012 HS90	5

MPC-02A-***



No.	Parts	Model	Quantity
6	O-ring	AS568-908 HS70	2
7	O-ring	AS568-012 HS90	5

MPC-02W-***



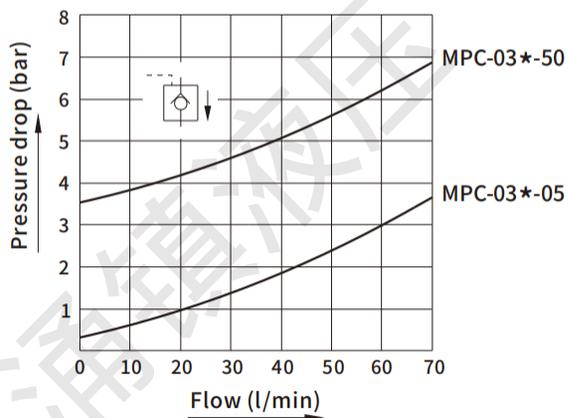
No.	Parts	Model	Quantity
6	O-ring	AS568-908 HS70	2
7	O-ring	AS568-012 HS90	6

MPC-03*Series

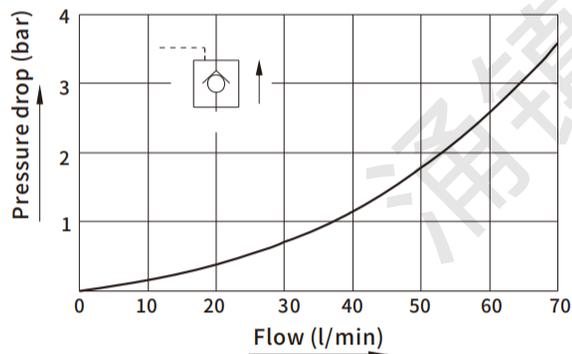
Test conditions: Viscosity: 35cSt; Temperature: 50°C

● Characteristic curve

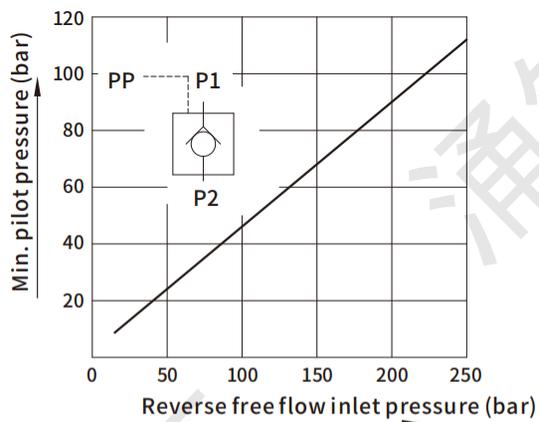
Free flow-pressure drop



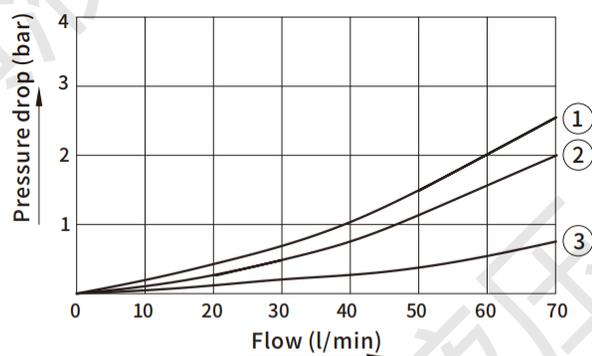
Reverse free flow-pressure drop



Min. pilot pressure



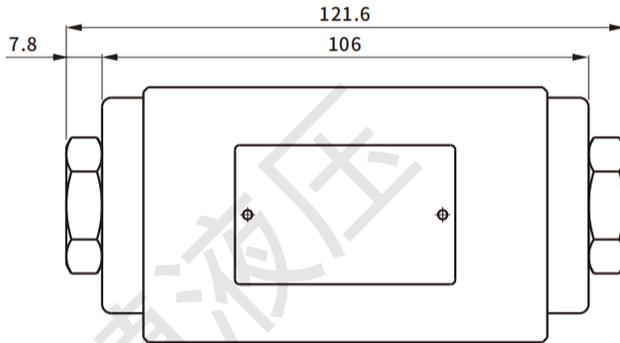
Pressure drop



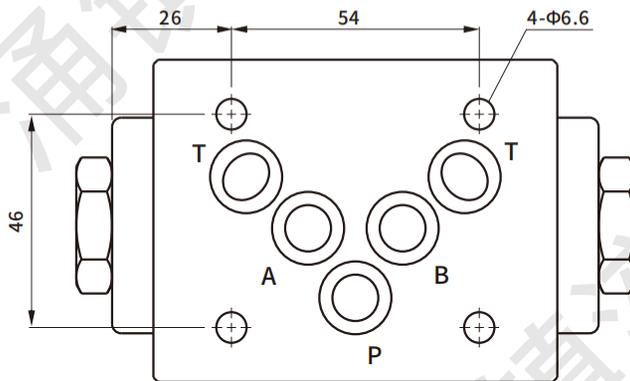
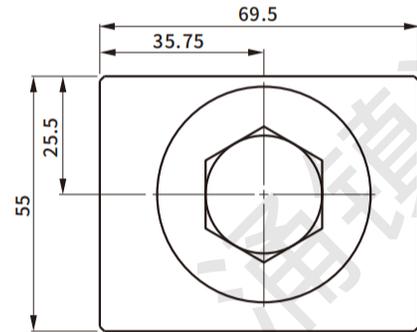
- ① : A line for MPC-03B, B line for MPC-03A
- ② : T line
- ③ : P line

● Dimensions

MPC-03A/B/W-★★

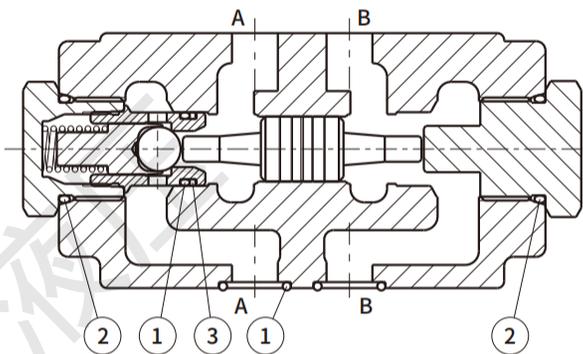


Installation surface : ISO 4401-AC-05-4-A



● Sealing elements

MPC-03A/B/W-★★



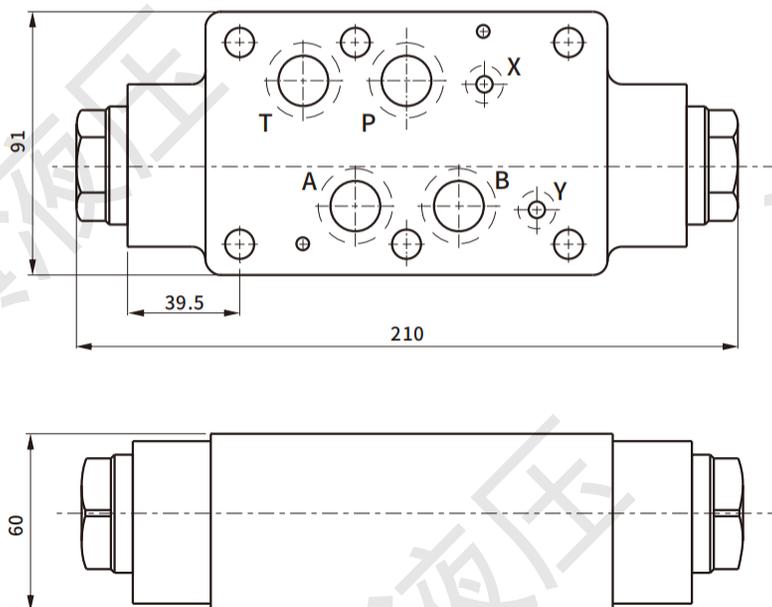
No.	Parts	Model
1	O-ring	AS568-014 HS90°
2	O-ring	AS568-910 HS70°
3	Benito ring back	AS-014 HS70°

MPC-04*Series

● Dimensions

MPC-04A/B/W-★★

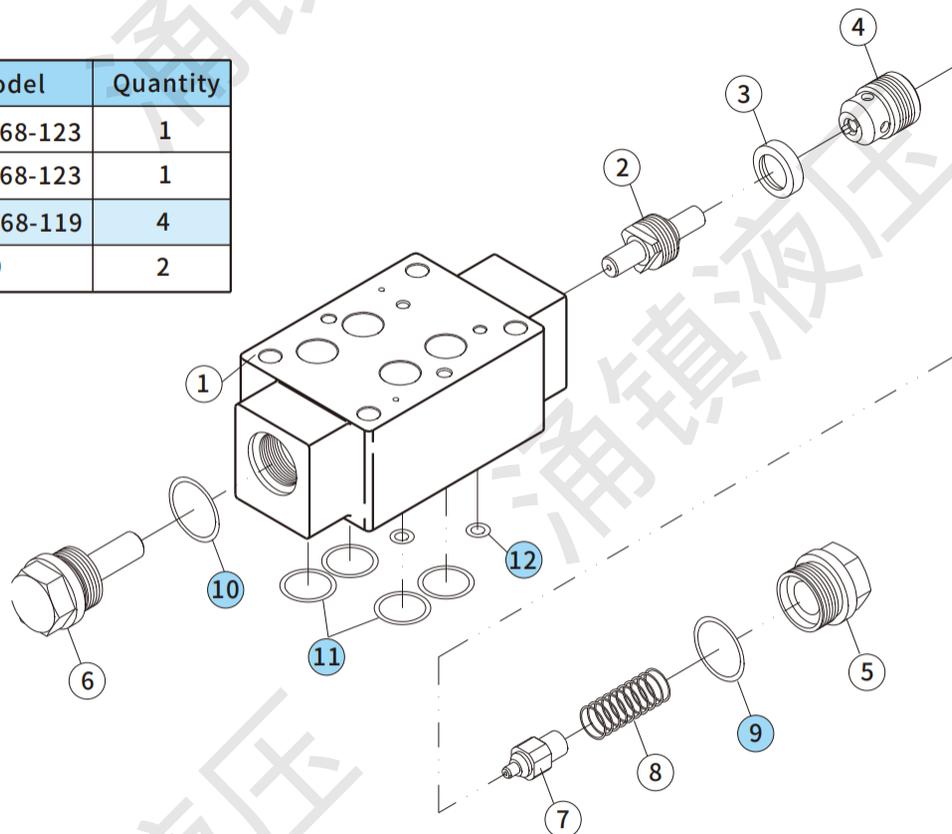
Installation surface: ISO 4401-AD-07-4-A



● Sealing elements

MPC-04A/B/W-★★

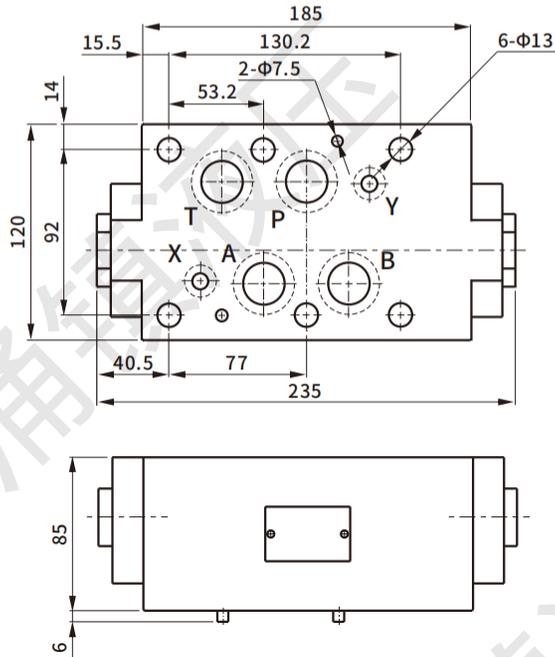
No.	Parts	Model	Quantity
9	O-ring	AS568-123	1
10	O-ring	AS568-123	1
11	O-ring	AS568-119	4
12	O-ring	P9	2



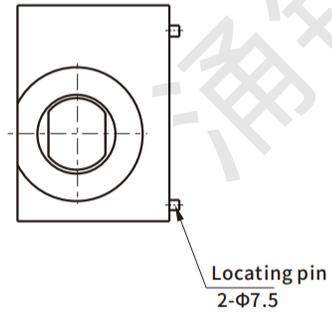
MPC-06*Series

● Dimensions

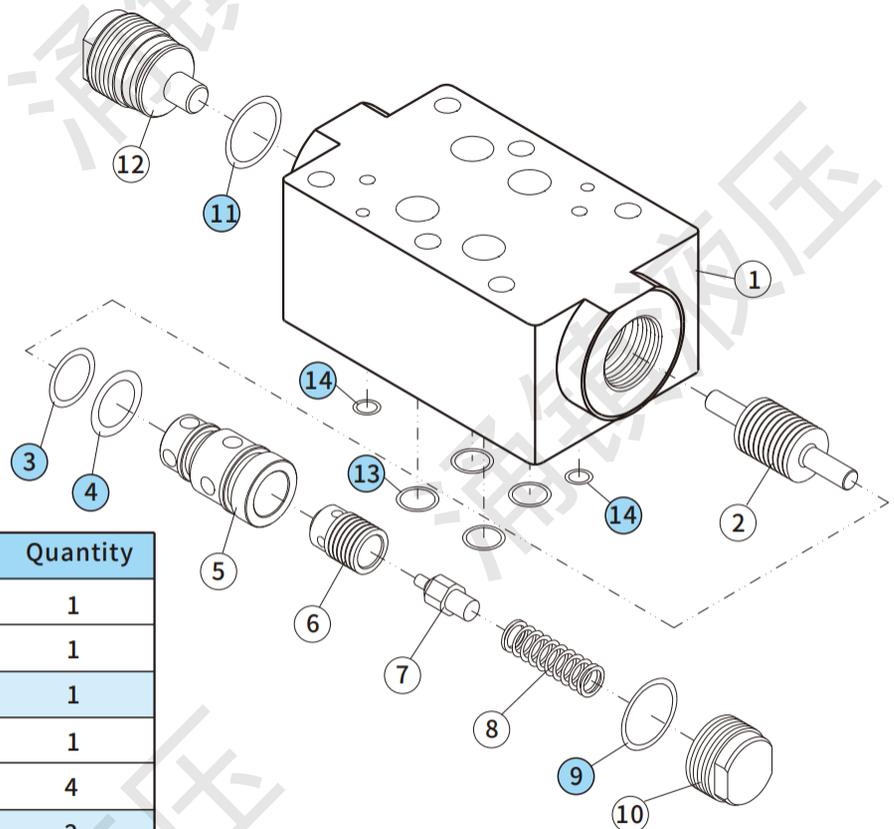
MPC-06A/B/W-**



Installation surface: ISO 4401-AE-08-4-A



● Sealing elements



No.	Parts	Model	Quantity
3	O-ring	P25.5	1
4	O-ring	P31.5	1
9	O-ring	P28	1
11	O-ring	P31.5	1
13	O-ring	P28	4
14	O-ring	P14	2

MPCD Series

How to order

MPCD -02 A -20 -V

Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code

Function port
A: A port; B: B port
W: A&B port

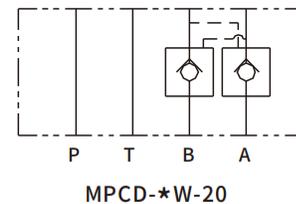
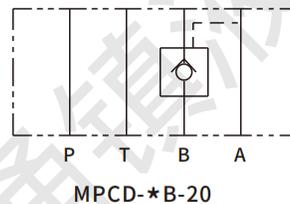
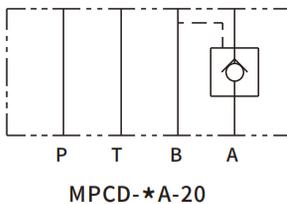
Nominal size
02: NG6 03: NG10
04: NG16 06: NG20

Modular two section pilot check valve



Modular valve

● Symbols



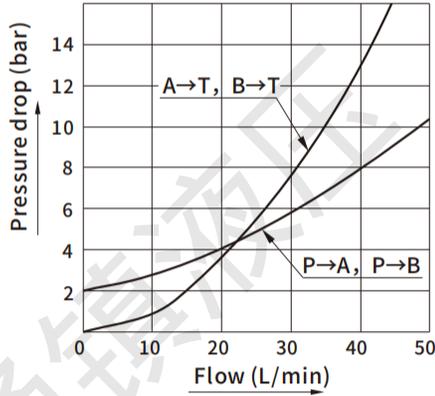
● Specification

Mode	Max. flow (L/min)	Max. pressure (bar)	Rated pressure (bar)	Weight (kg)
MPCD-02*-20	50	315	250	1.2
MPCD-03*-20	100			3.6
MPCD-04*-20	300			5.5
MPCD-06*-20	190			12.5

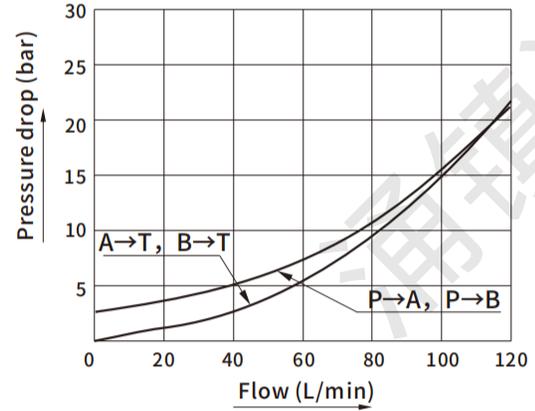
Test conditions: Viscosity :32cSt; Temperature: 50°C

● Pressure drop

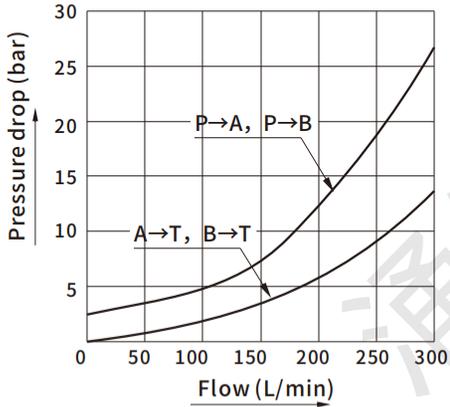
MPCD-02*-20



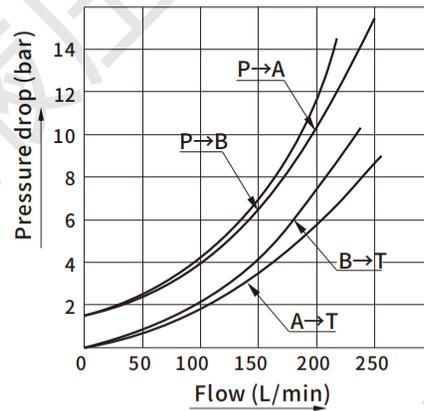
MPCD-03*-20



MPCD-04*-20

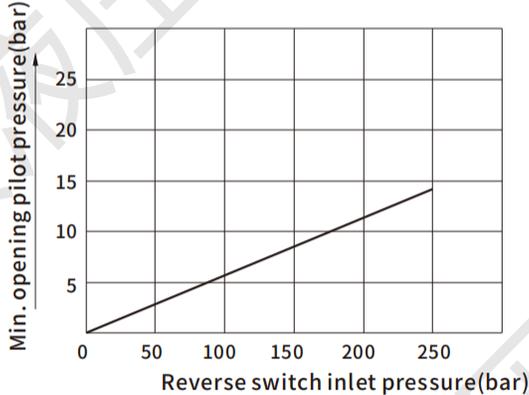


MPCD-06*-20

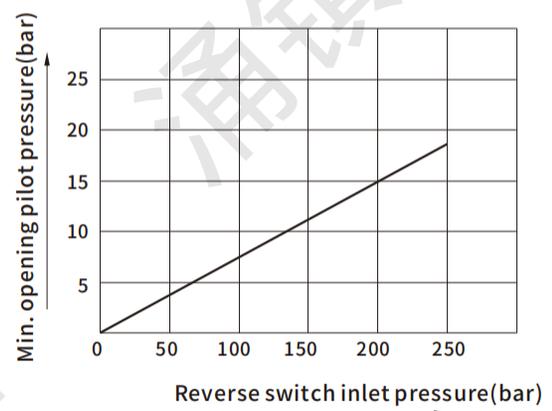


● Min. opening pilot pressure

MPCD-02*-20

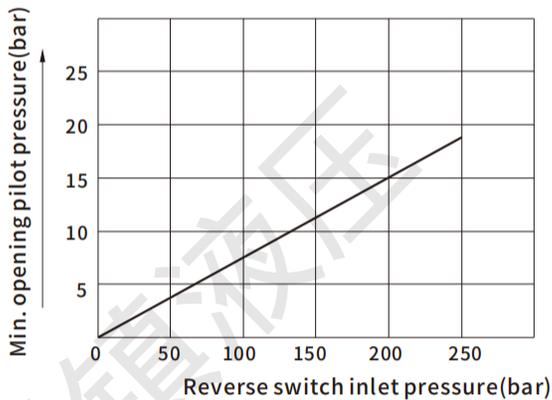


MPCD-03*-20

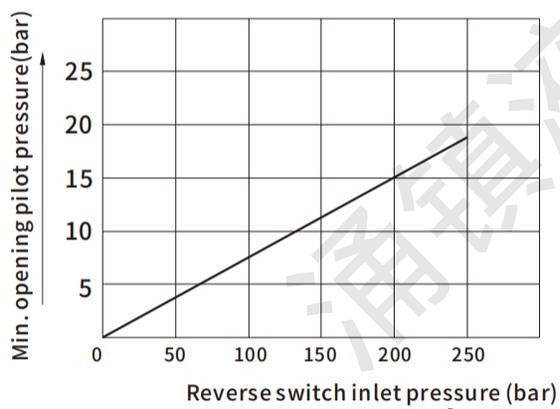


- Min. opening pilot pressure

MPCD-04*-20



MPCD-06*-20



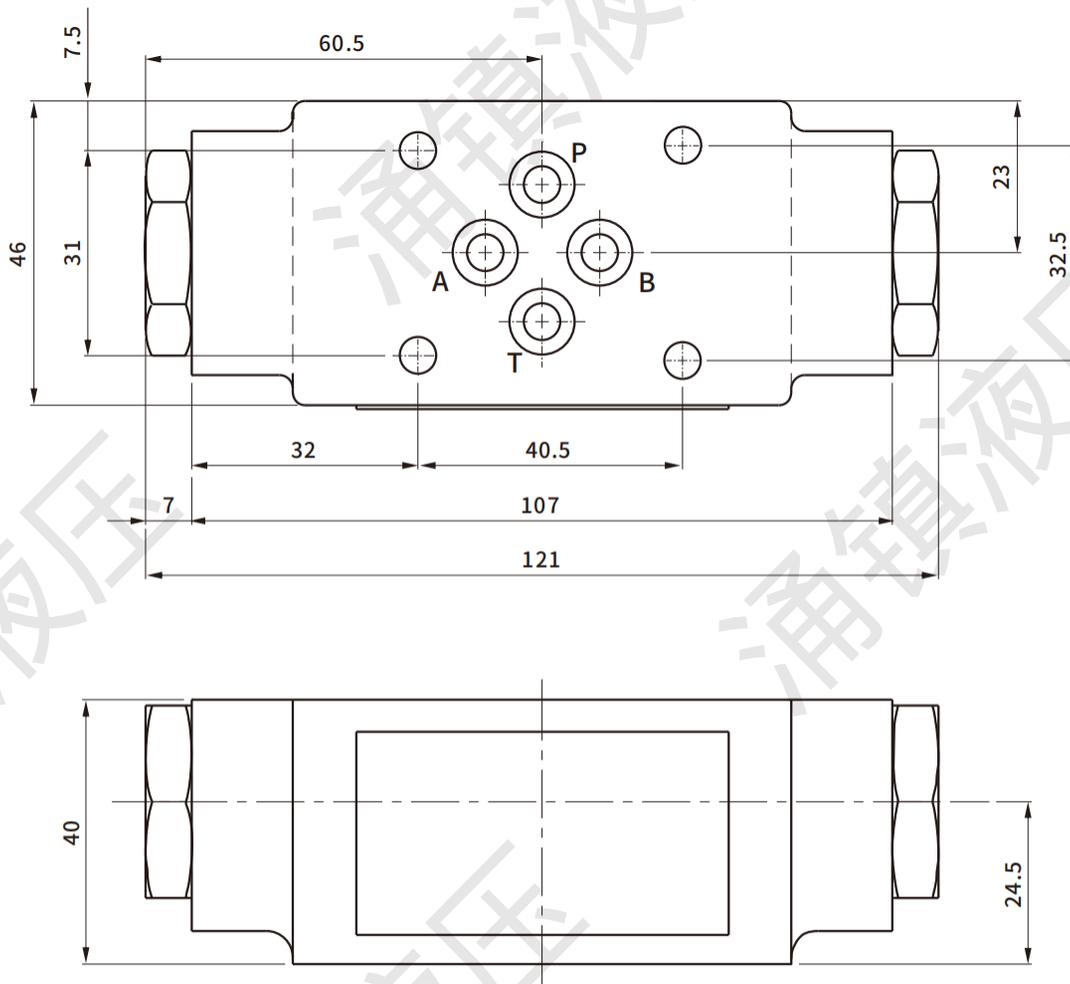
Modular valve

Dimensions

Units: mm

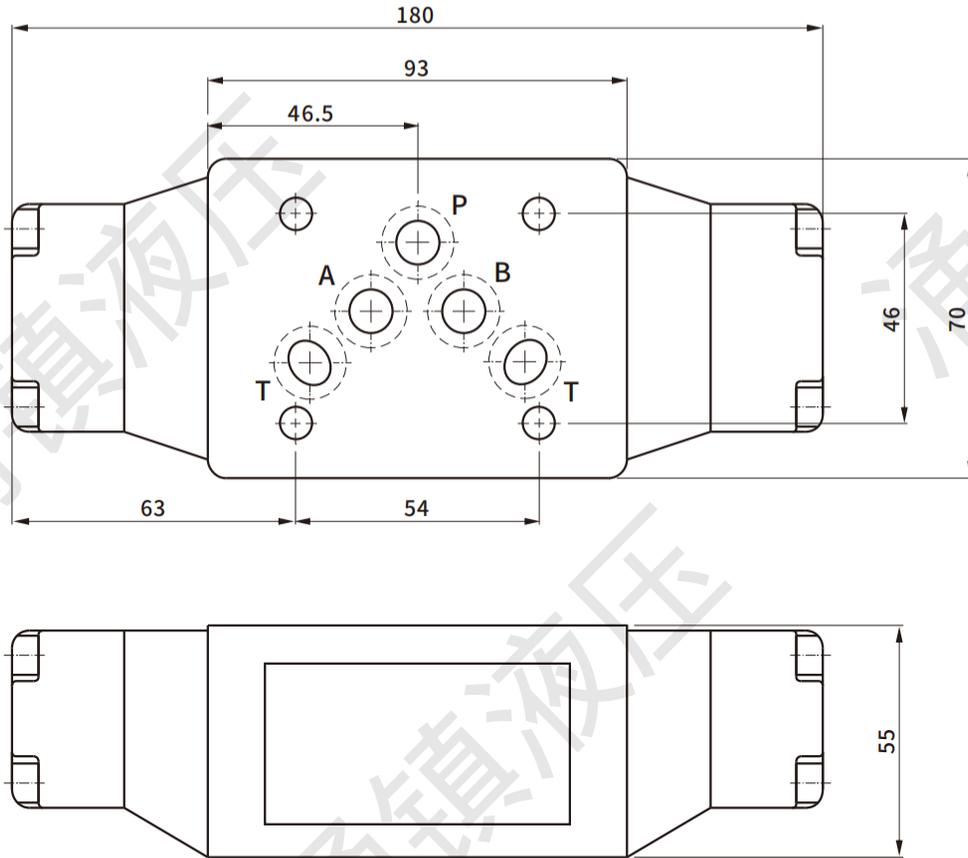
- MPCD-02*-20**

Installation surface: ISO 4401-AB-03-4-A
Weight: 1.2kg



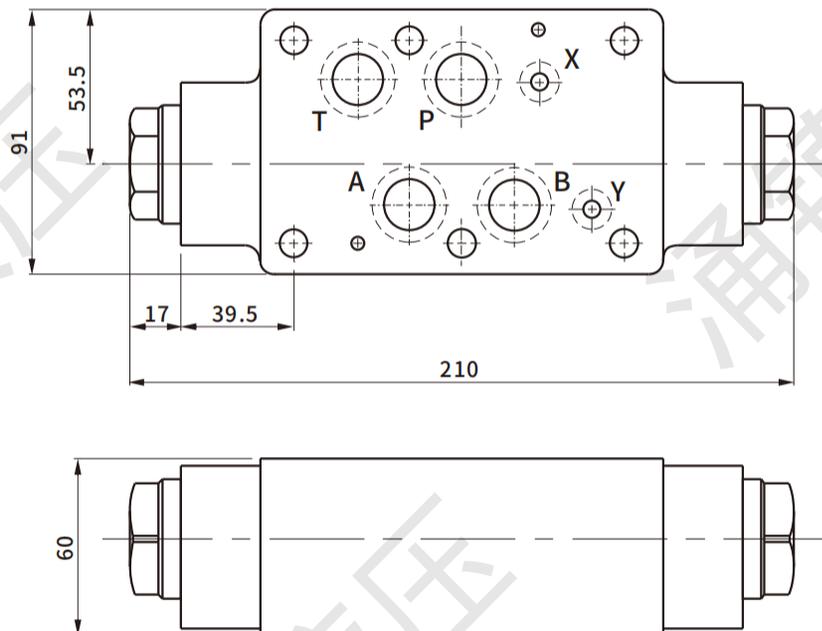
● **MPCD-03*-20**

Installation surface: ISO 4401-AC-05-4-A
Weight: 3.6kg



● **MPCD-04*-20**

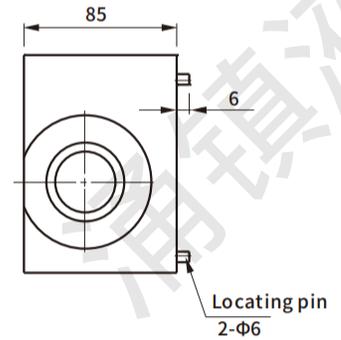
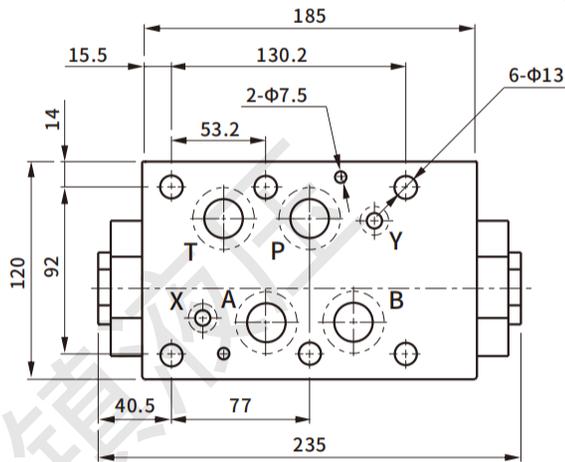
Installation surface: ISO 4401-AD-07-4-A
Weight: 5.5kg



● MPCD-06★-20

Installation surface: ISO 4401-AE-08-4-A

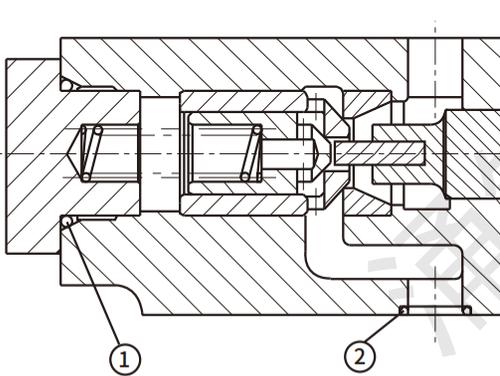
Weight: 12.5kg



Modular valve

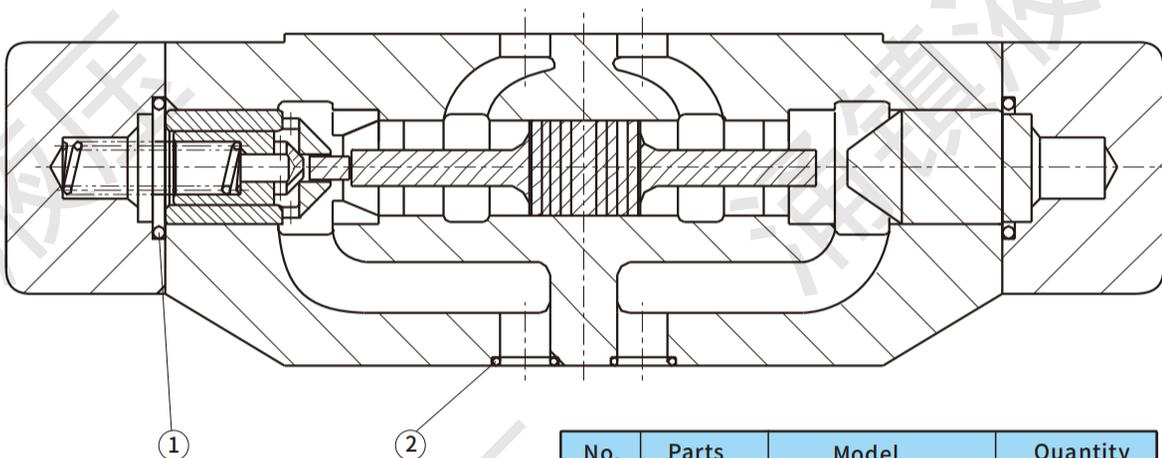
Sealing elements

● MPCD-02A-20



No.	Parts	Model	Quantity
1	O-ring	P18	2
2	O-ring	P9	4

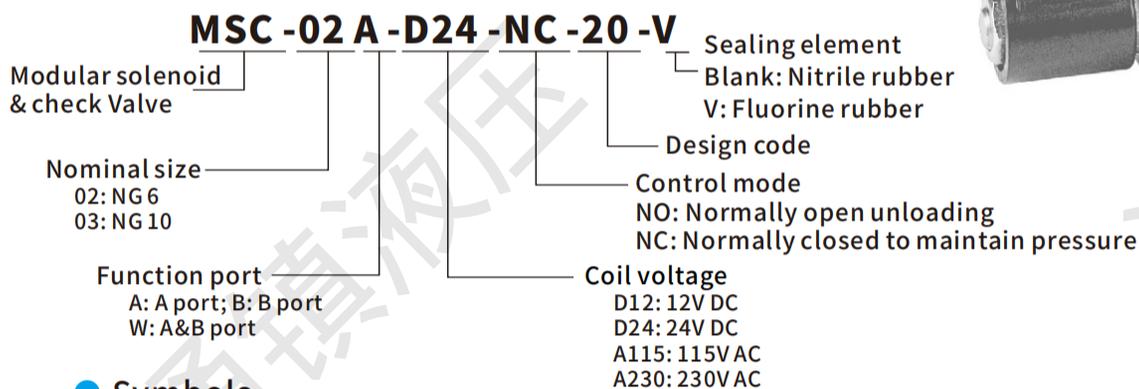
● MPCD-03A-20



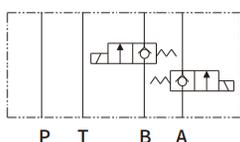
No.	Parts	Model	Quantity
1	O-ring	P28	2
2	O-ring	P12	5

MSC Series

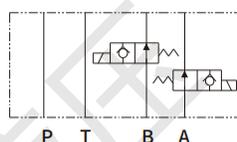
How to order



● Symbols



MSC-02/03W-**-NC-20



MSC-02/03W-**-NO-20

Note: The normally open/normally closed hydraulic symbols of A port and B port are single control valves.

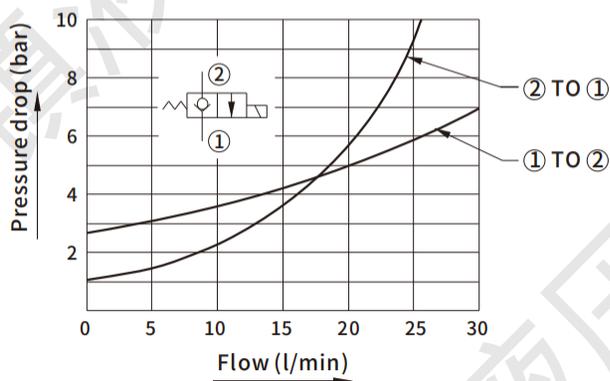
● Specification

Mode	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MSC-02*-**-**	250	20	1.4/2.5
MSC-03*-**-**		45	4.2/5.5
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12,25μm
Viscosity range	10~400 cSt	Surface treatment	Bonderizing
Operating temperature	-15~70°C		

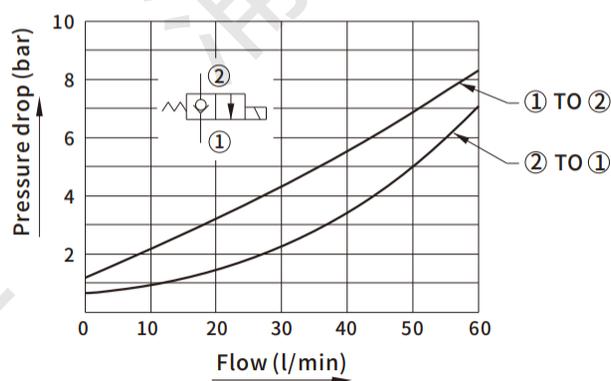
Pressure drop characteristic curve

Test conditions: Viscosity: 35cSt; Temperature: 50°C

● MSC-02*-**-**



● MSC-03*-**-**

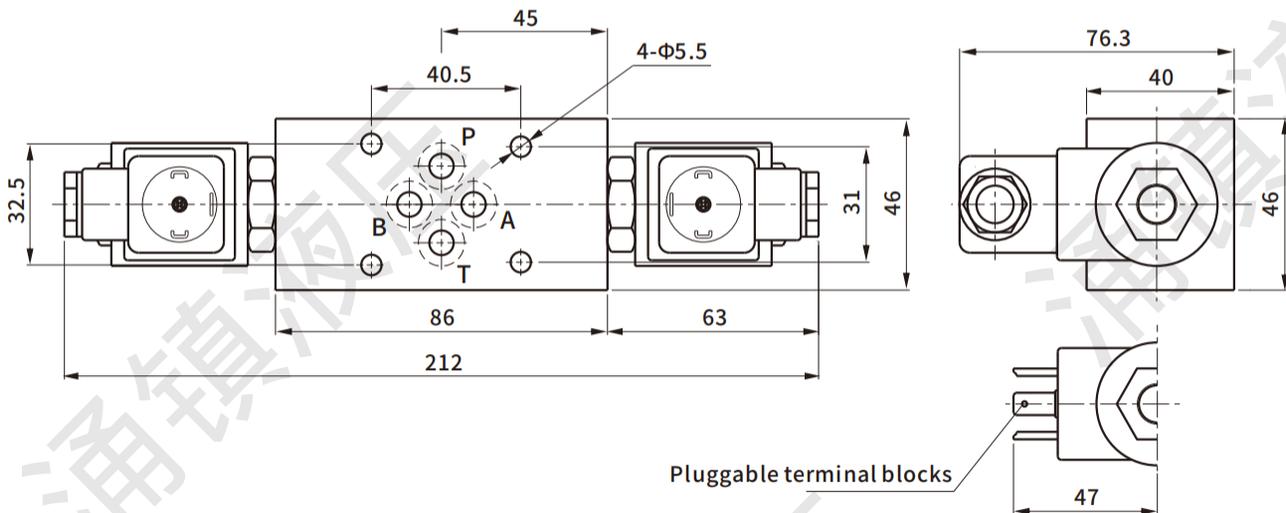


Dimensions

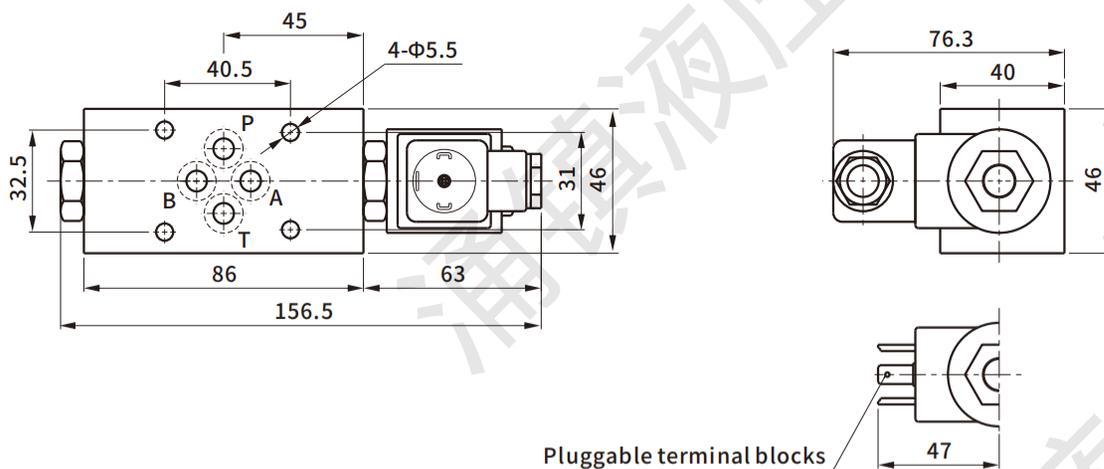
Units : mm

● MSC-02W-**-20

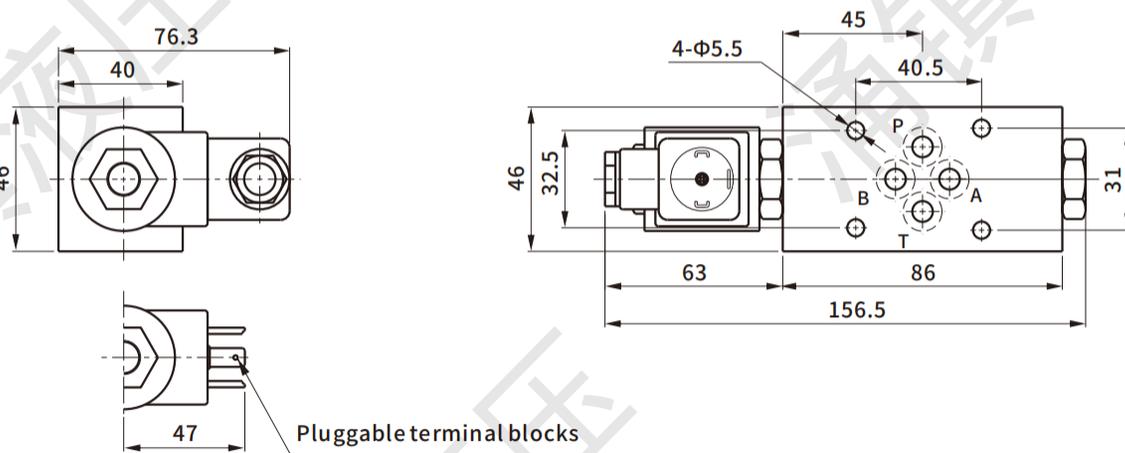
Installation surface: ISO-4401-AB-03-4-A



● MSC-02A-**-20

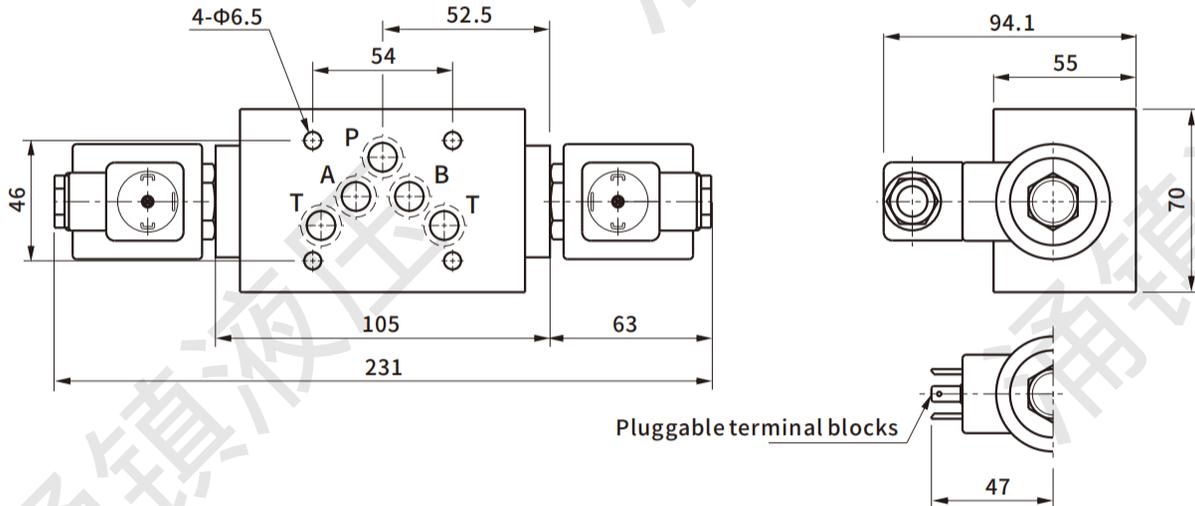


● MSC-02B-**-20

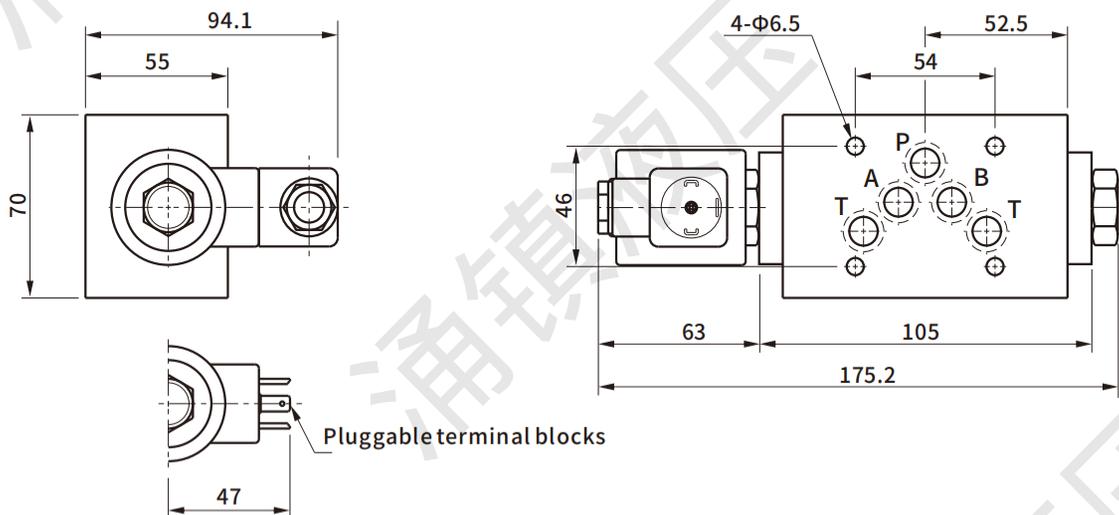


● **MSC-03W-**-20**

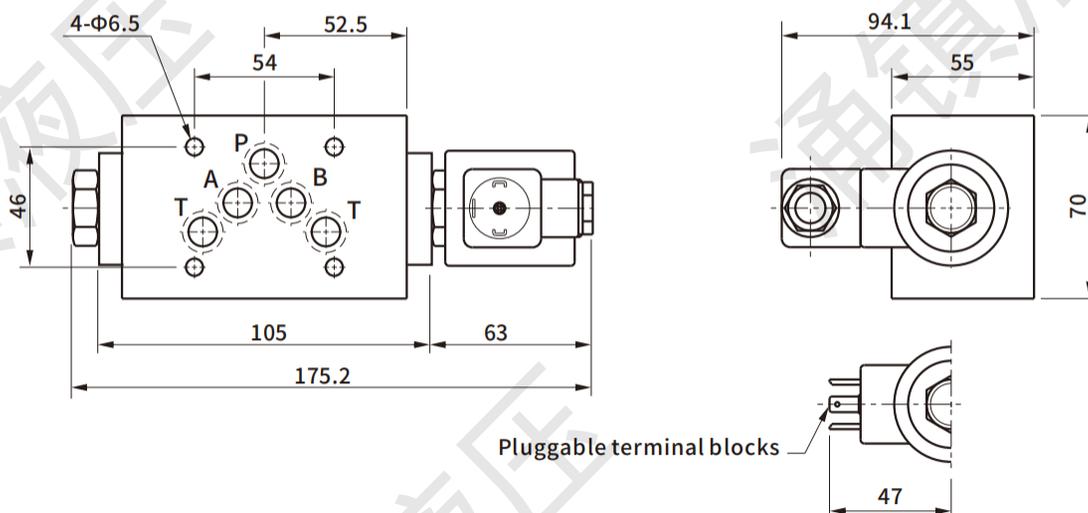
Installation surface: ISO-4401-AC-05-4-A



● **MSC-03A-**-20**



● **MSC-03B-**-20**



MSCC Series

Modular solenoid double direction two way valve is normally closed two-way check valve, after energized can be bidirectional oil. Internal leakage less than 0.25ml(cc) per minute, installation size in accordance with ISO4401 standards.



How to order

MSCC -02 A -D24 -NC-20-V

Modular Solenoid Double Direction Two Way Valve

Nominal size

02: NG 6

03: NG 10

Function port

A: A port; B: B port

W: A&B port

Sealing element

Blank: Nitrile rubber

V: Fluorine rubber

Design code

Control mode

NO: Normally open unloading

NC: Normally closed to maintain pressure

Coil voltage

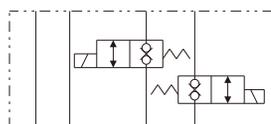
D12: 12V DC

D24: 24V DC

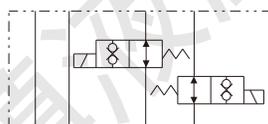
A115: 115V AC

A230: 230V AC

● Symbols



MSCC-W-**-NC-20



MSCC-W-**-NO-20

Note: The normally open/normally closed hydraulic symbols of A port and B port are single control valves.

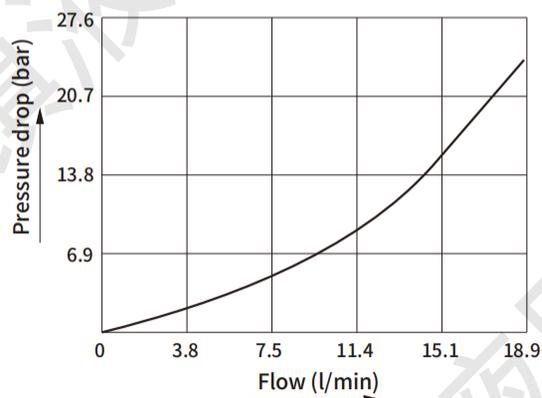
● Specification

Mode	Rated pressure (bar)	Max. flow (l/min)	Internal discharge (ml/min)
MSCC-02A/B/W-**-**	207	19	Within 0.25
MSCC-03A/B/W-**-**	240	76	

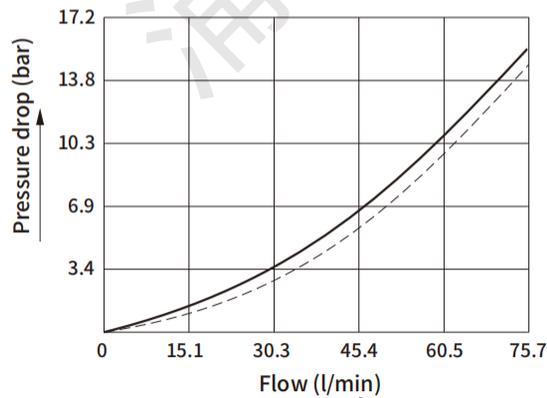
Pressure drop characteristic curve

Test conditions: Viscosity: 35cSt; Temperature: 50°C

MSCC-02*-**-**



MSCC-03*-**-**

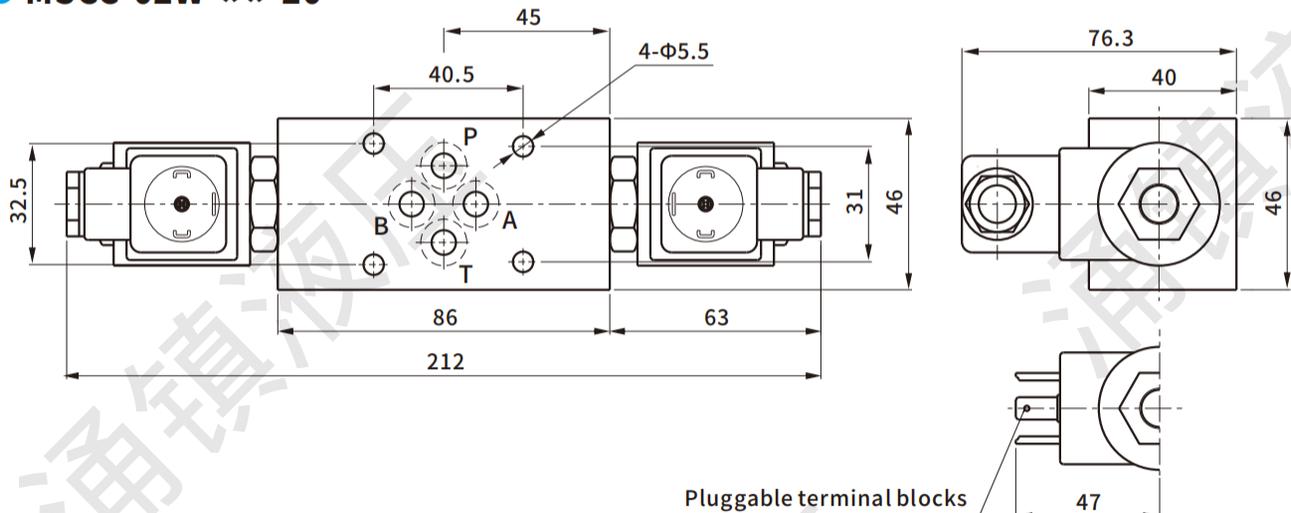


Dimensions

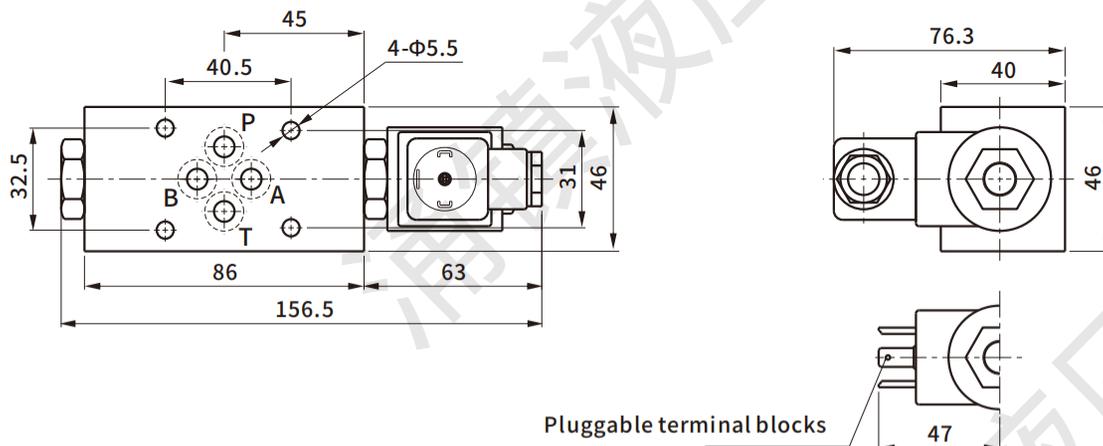
Units: mm

● MSCC-02W-**-20

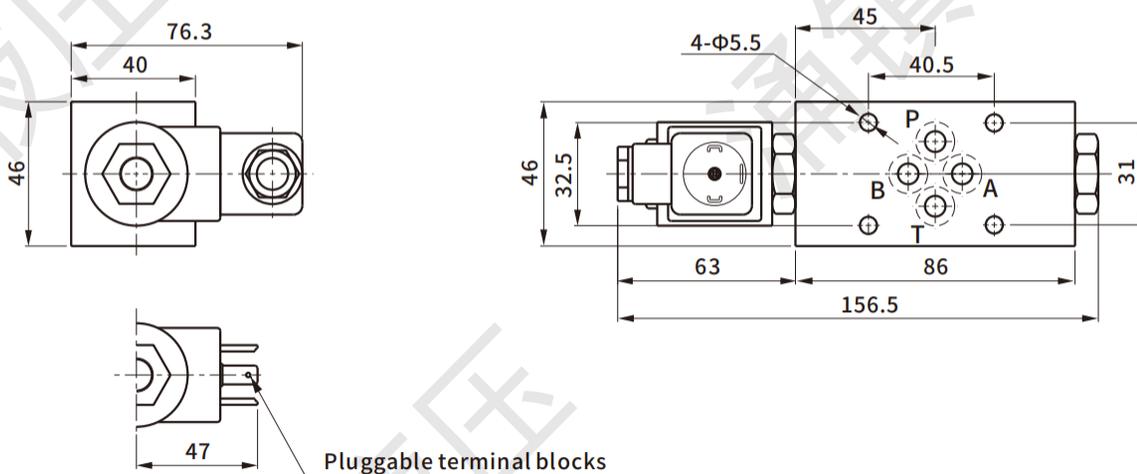
Installation surface: ISO-4401-AB-03-4-A



● MSCC-02A-**-20

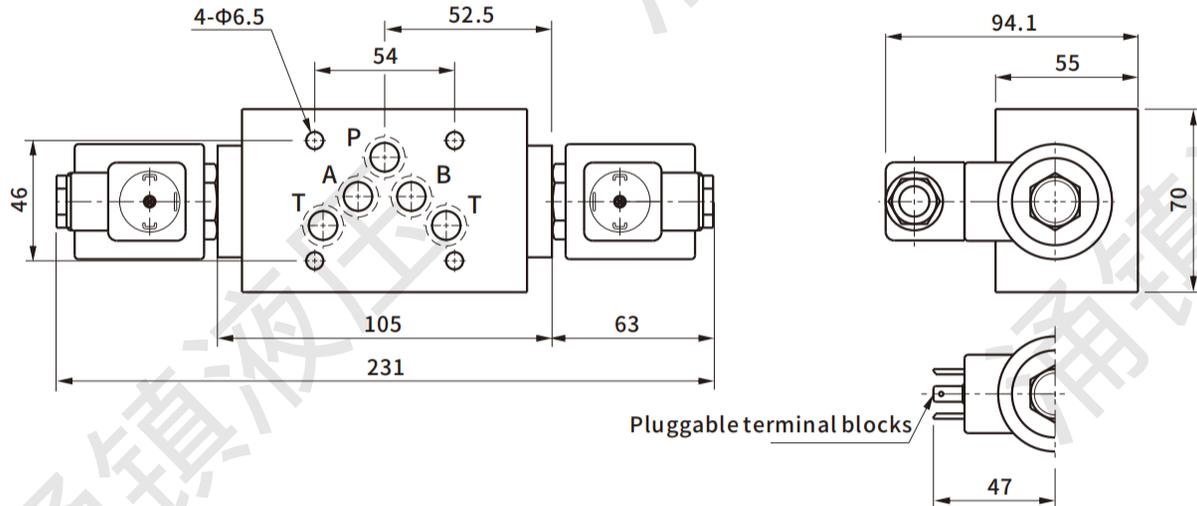


● MSCC-02B-**-20

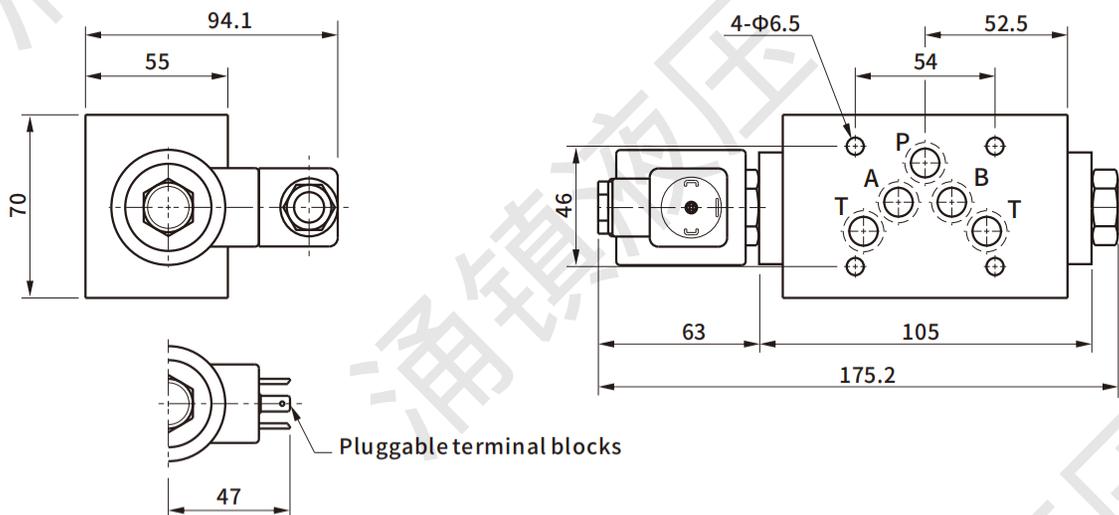


● **MSCC-03W-**-20**

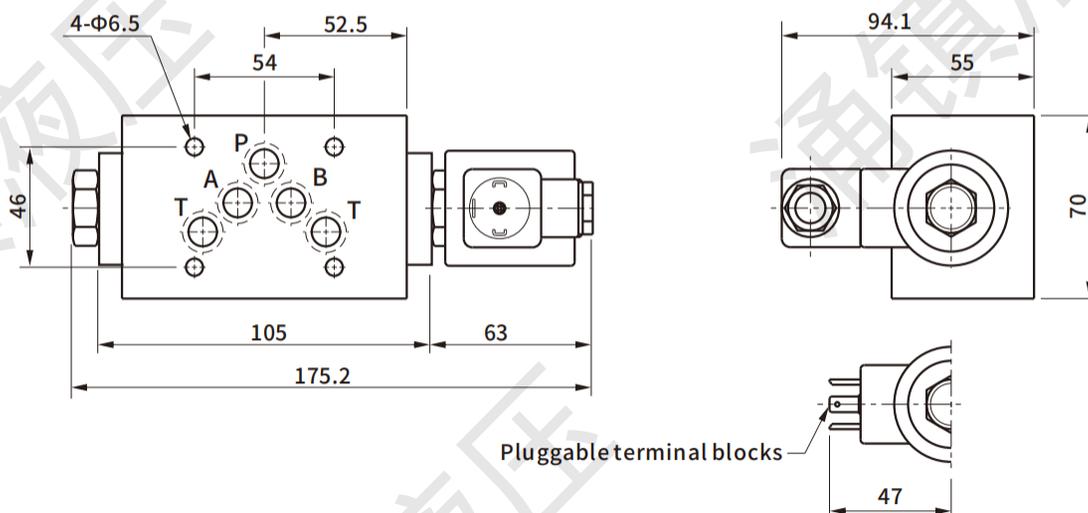
Installation surface: ISO-4401-AC-05-4-A



● **MSCC-03A-**-20**



● **MSCC-03B-**-20**



Modular
valve

MT (C) Series

How to order



MT(C) -02 P -K -20 -V

MT: Modular throttle valve
MTC: Modular throttle and check valve (P port only)

Nominal size
02: NG 6
03: NG 10

Function port
P: P port
T: T port

Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

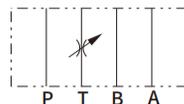
Design code

Adjusting rod type
Blank: No knob (custom)
K: With plastic knob (standard)

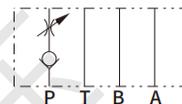
● Symbols



MT-02/03P-***



MT-02/03T-***



MTC-02/03P-***

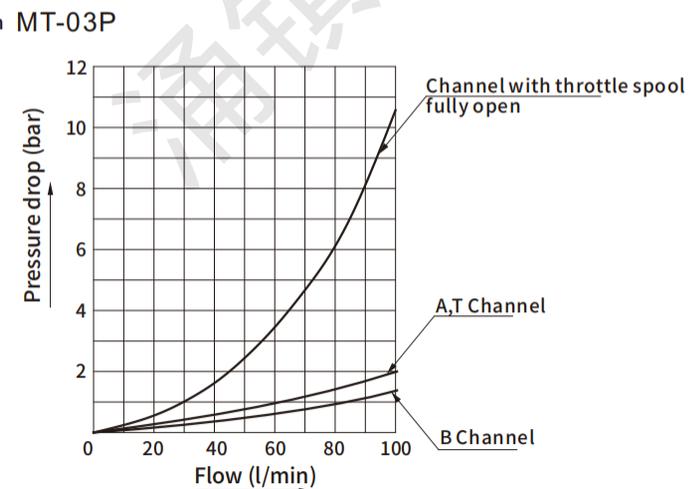
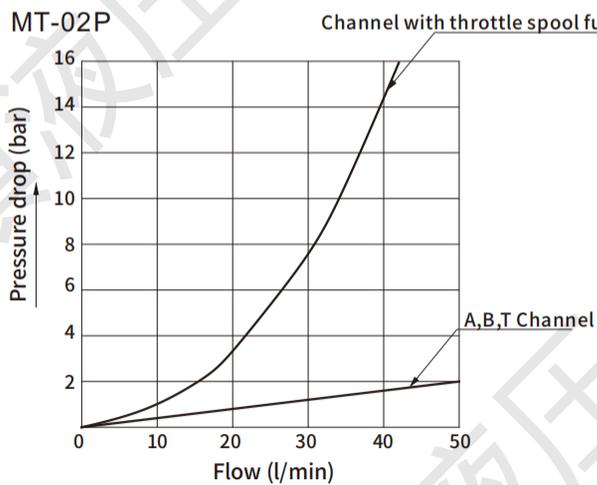
● Specification

Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MT(C)-02*-***-20	315	250	35	1.2
MT(C)-03*-***-20			70	2.4
Oil	ISO VG 32,46,68		Pollution standards	≤NAS12,25μm
Viscosity range	10~400 cSt		Surface treatment	Bonderizing
Operating temperature	-15~70°C			

Characteristic curve

● Flow-pressure

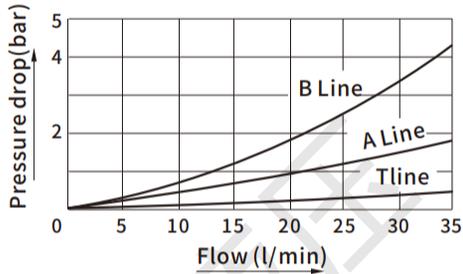
Test conditions: Viscosity: 35cSt; Temperature: 50°C



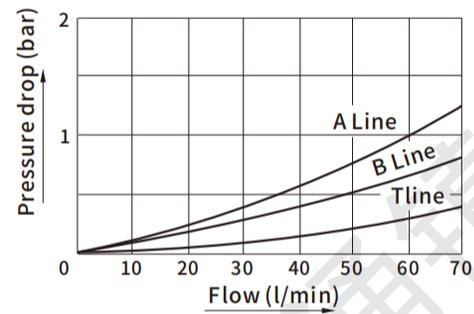
● Flow- pressure drop

Test conditions: Viscosity: 35cSt; Temperature: 50°C

MTC-02P

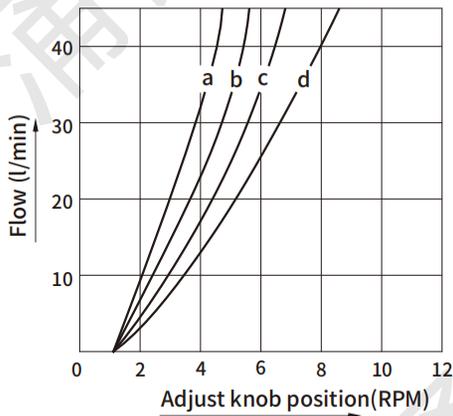


MTC-03P



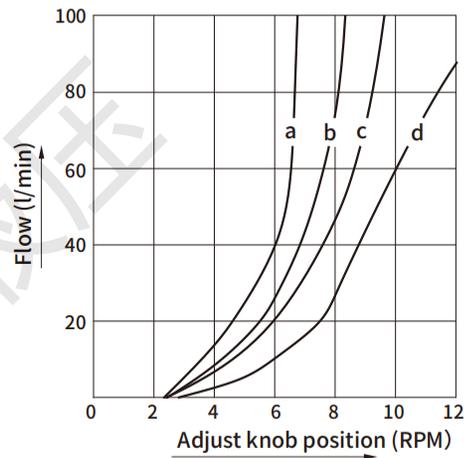
● Throttle twist opening—flow

MT-02P/T

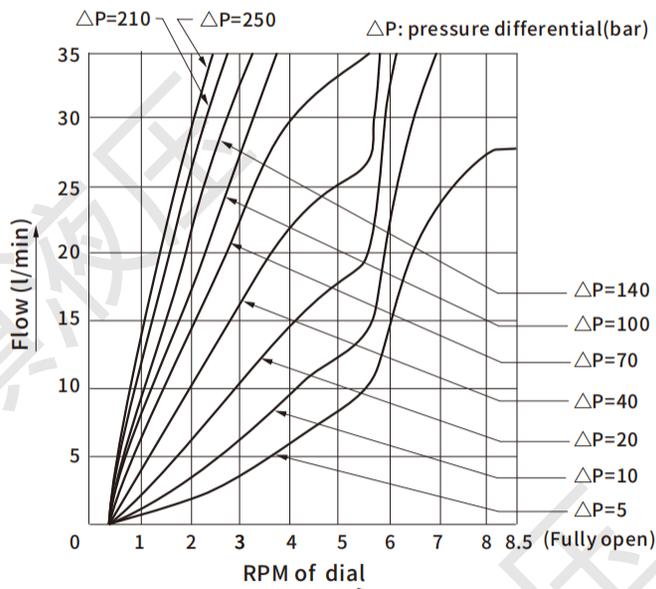


a: $\Delta P = 140\text{bar}$
 b: $\Delta P = 70\text{bar}$
 c: $\Delta P = 35\text{bar}$
 d: $\Delta P = 10\text{bar}$

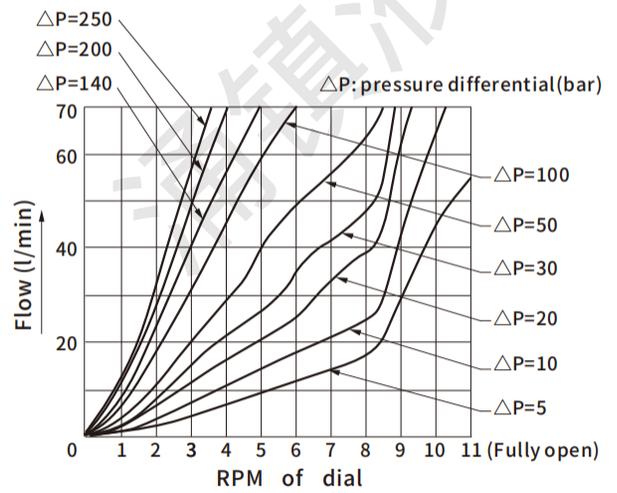
MT-03P/T



MTC-02P

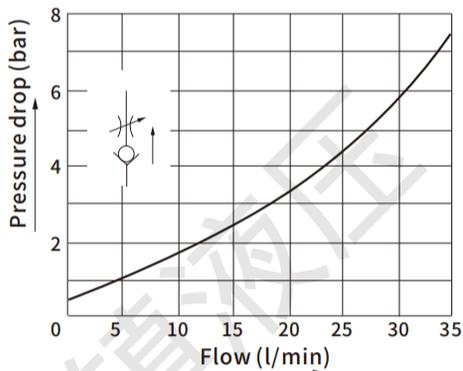


MTC-03P

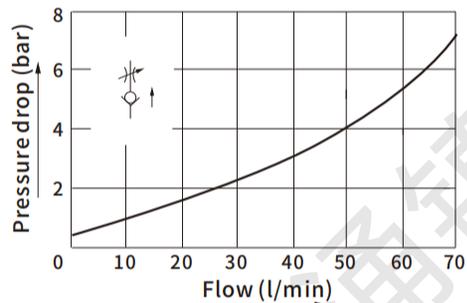


- Pressure drop (when throttle is fully open)

MTC-02P



MTC-03P

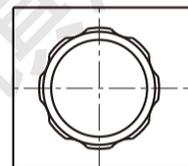
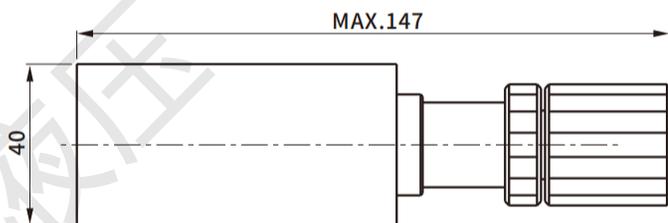
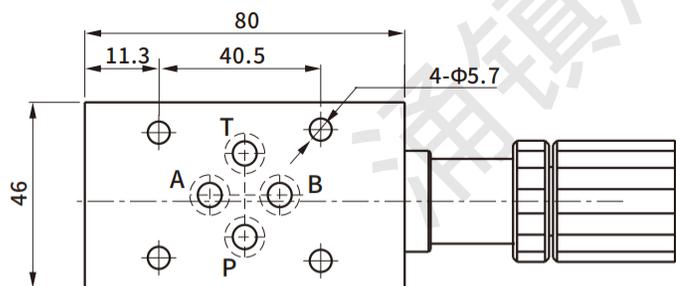


Dimensions

Units: mm

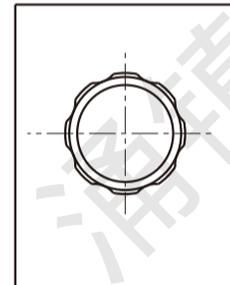
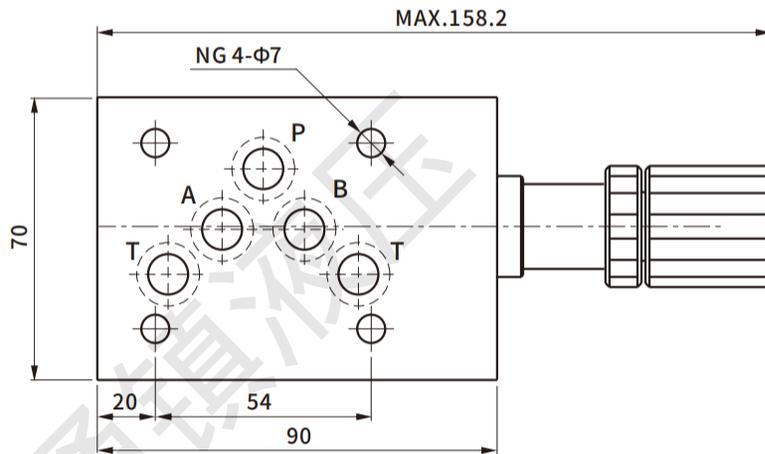
Installation surface: ISO 4401-AB-03-4-A

- **MT/MTC-02*-K-20**



● **MT-03*-**-20**

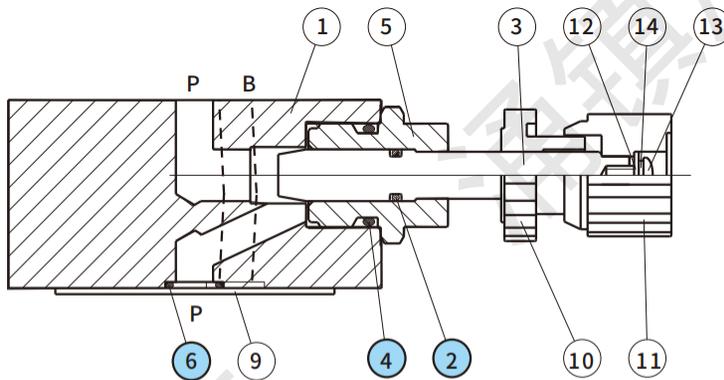
Installation surface: ISO 4401-AC-05-4-A



Modular
valve

Sealing elements

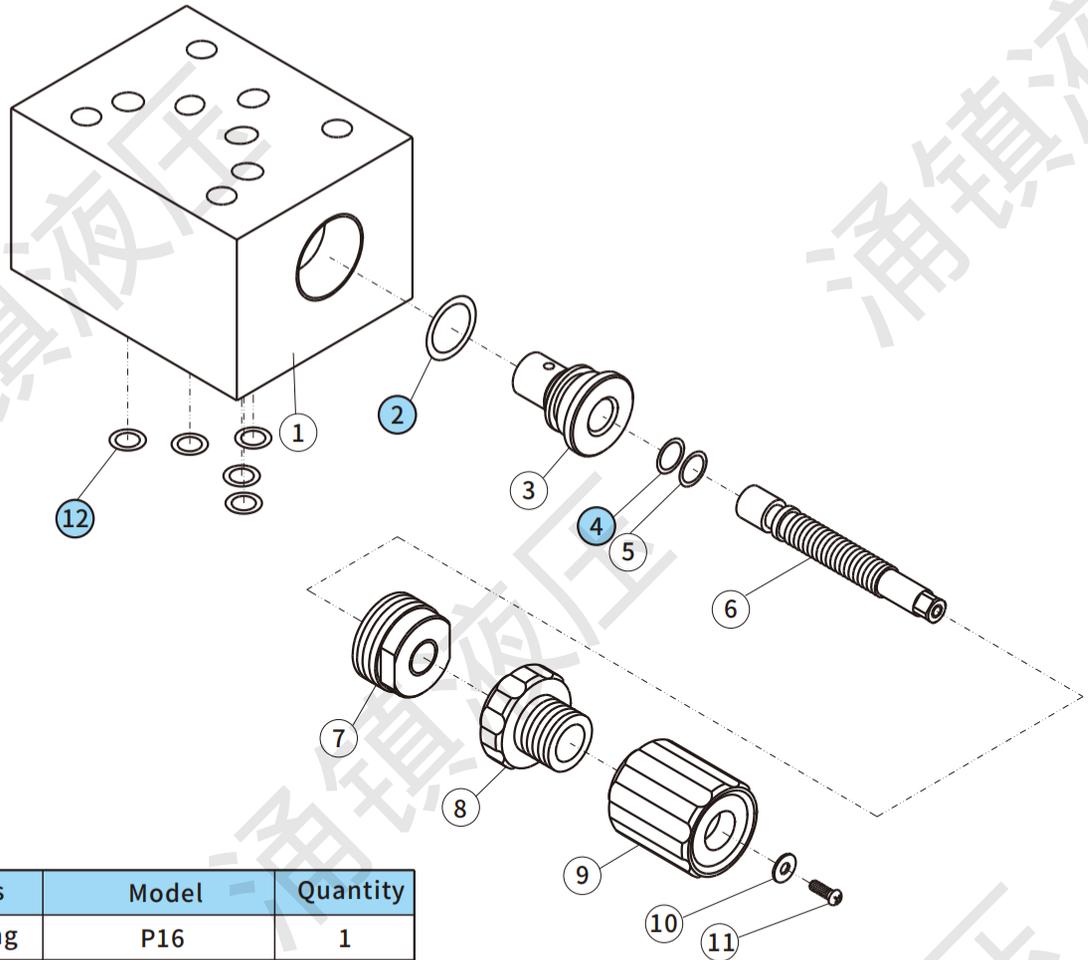
● **MT-02*-**-20**



No.	Parts	Model	Quantity
2	O-ring	P8 HS90	1
4	O-ring	P18 HS90	1
6	O-ring	AS568-012 HS90	4

Sealing elements

● MT-03*-**-20



No.	Parts	Model	Quantity
2	O-ring	P16	1
4	O-ring	P7	1
12	O-ring	AS568-014 HS90	5

MTC Series

1. A variety of action modes to choose from;
2. Valve body cast iron has high strength and durability, long life;
3. Internal hard steel original to improve product life;
4. Plastic knob or hex screw two pressure adjustment options.



How to order

MTC-02A-K-I-20-V

Modular Throttle & Check valve

Nominal size

02: NG 6; 03: NG10
04: NG16; 06: NG 20

Function port

A: A port; B: B port
W: A&B port

Adjusting rod type

Blank: No knob (custom)
K: With plastic knob (standard)

Sealing element

Blank: Nitrile rubber
V: Fluorine rubber

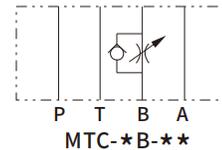
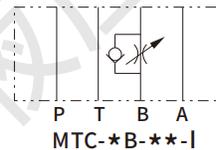
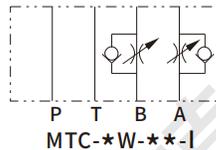
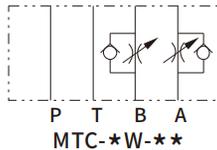
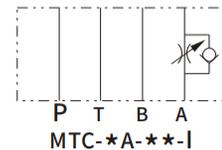
Design code

20: Standard (02/03 optional)
80: High-pressure (02/03/04/06 optional)

Control mode

Blank: export throttling
I: inlet throttle

● Symbols



Modular valve

● Specification

Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MTC-02A/B-**-20	315	250	35	1.2
MTC-02W-**-20				1.4
MTC-03A/B-**-20	315	250	70	2.6
MTC-03W-**-20				2.8
MTC-02A/B-**-80	315	315	80	1.0
MTC-02W-**-80				
MTC-03A/B-**-80	315	315	160	3.1
MTC-03W-**-80				
MTC-04A/B-**-80	315	315	250	4.7
MTC-04W-**-80				
MTC-06A/B-**-80	315	315	360	8.0
MTC-06W-**-80				
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12, 25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

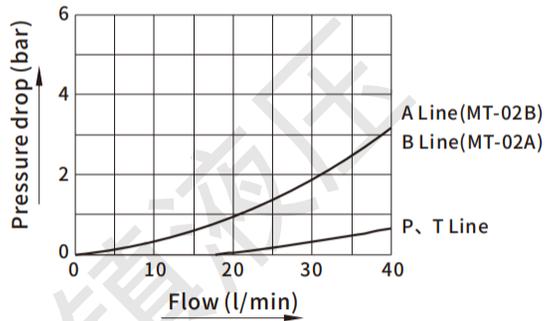
Note : Flow setting: Adjust the screw or handle clockwise to increase the flow, counterclockwise to reduce the flow, after the flow adjustment, please lock the hex nut or plastic mounting nut.

MTC-02*Series

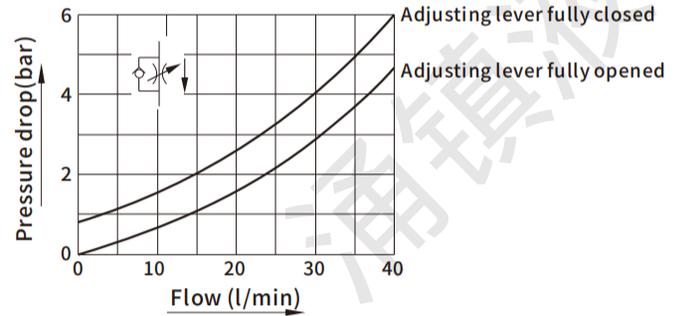
Test conditions: Viscosity: 35cSt; Temperature: 50°C

● Characteristic curve

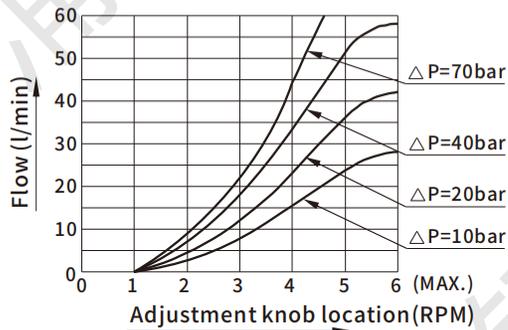
Pressure drop



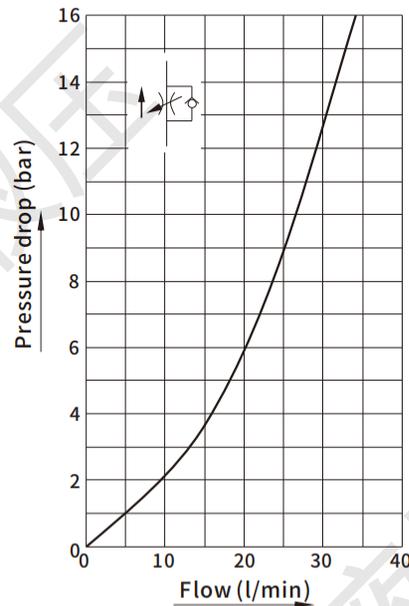
Free flow-pressure drop



Flow- Adjustment knob

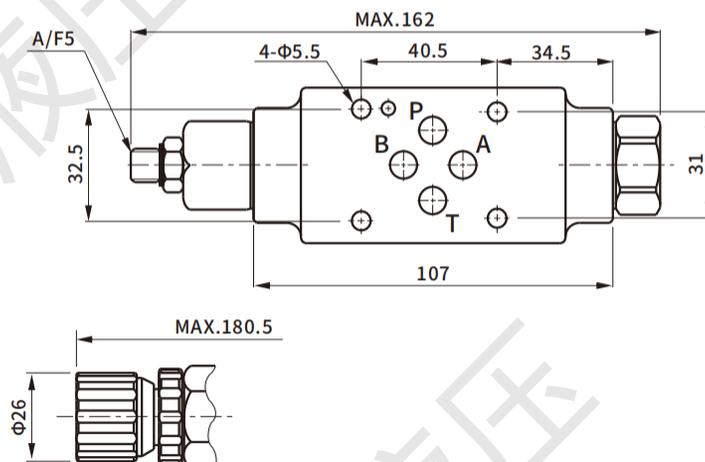


Pressure drop (Adjusting lever fully opened)

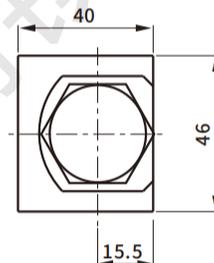


● Dimensions

MTC-02B-**

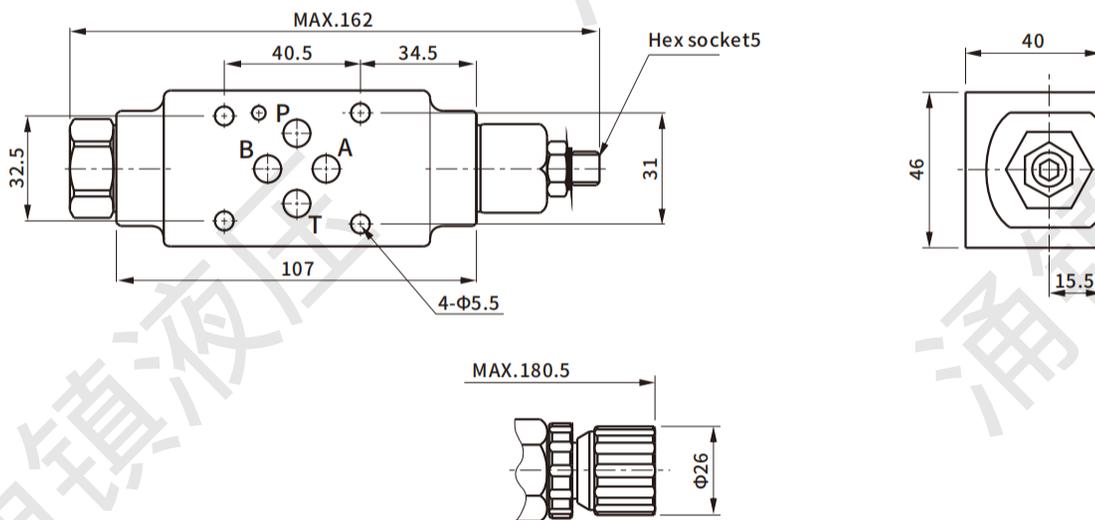


Installation surface: ISO 4401-AB-03-4-A

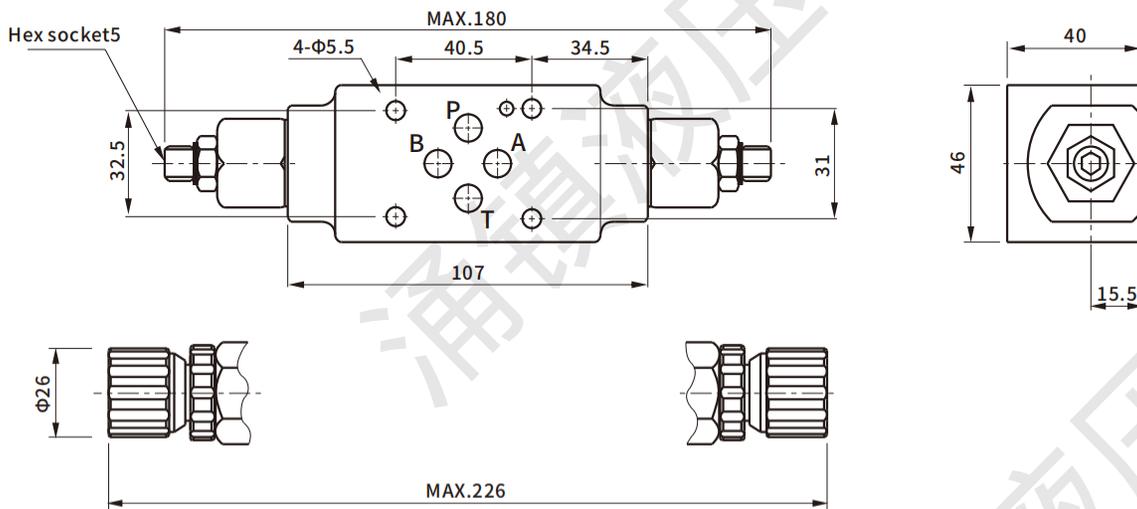


MTC-02A-★★

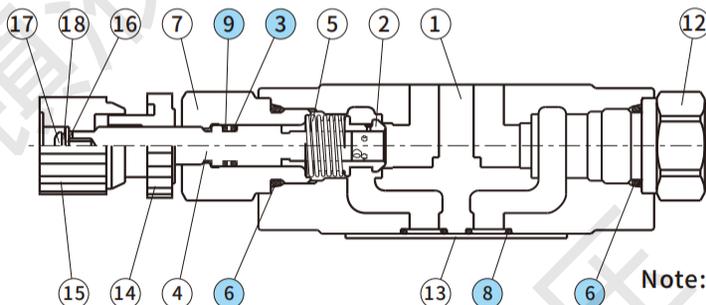
Installation surface: ISO 4401-AB-03-4-A



MTC-02W-★★



● Sealing elements



No.	Parts	Model	Quantity
3	O-ring	P8 HS90	1(2)
6	O-ring	P18 HS90	2
8	O-ring	AS568-012 HS90	4
9	Benito ring back	P8	1(2)

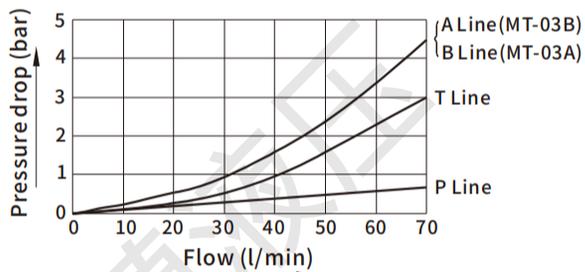
Note: The value in brackets is the number of seals for MTC-02W.

MTC-03*Series

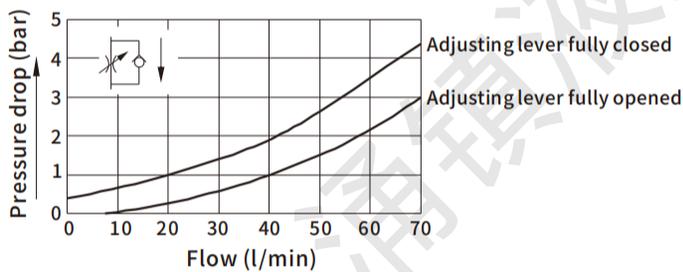
● Characteristic curve

Test conditions: Viscosity: 35cSt; Temperature: 50°C

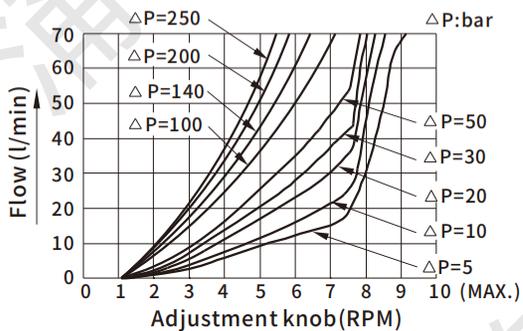
Pressure drop



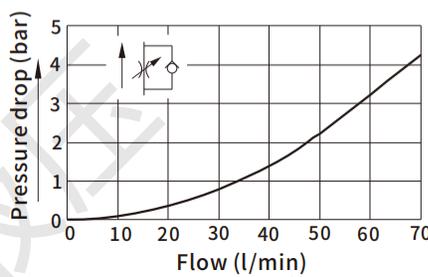
Free flow- pressure drop



Flow- Adjustment knob



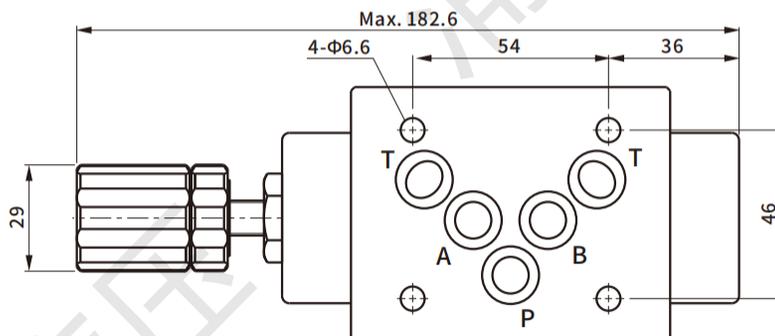
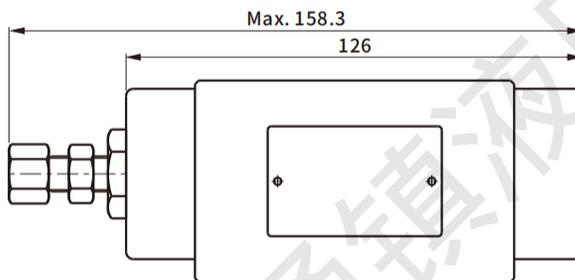
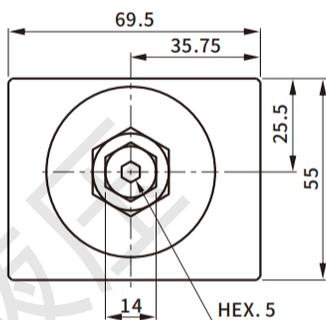
Pressure drop (Adjusting lever fully opened)



● Dimensions

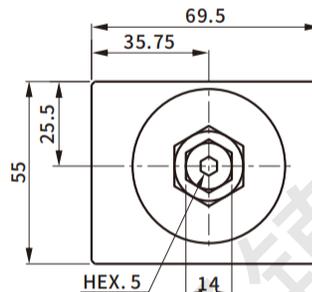
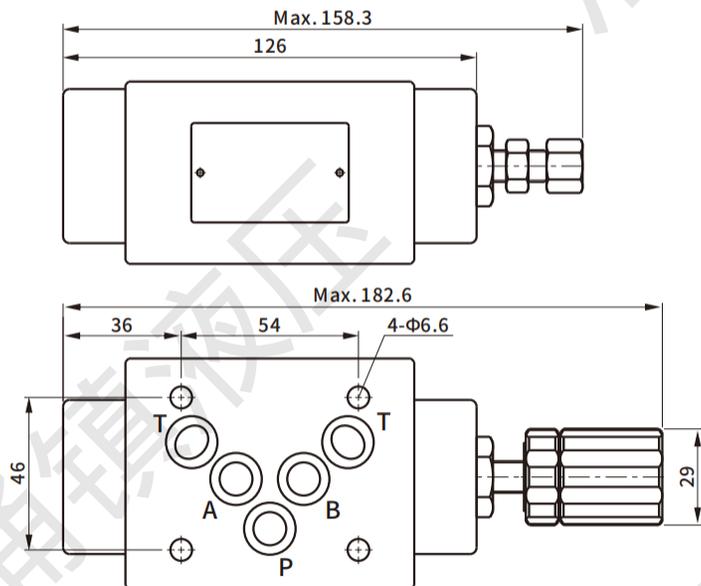
MTC-03A-**

Installation surface: ISO 4401-AB-03-4-A

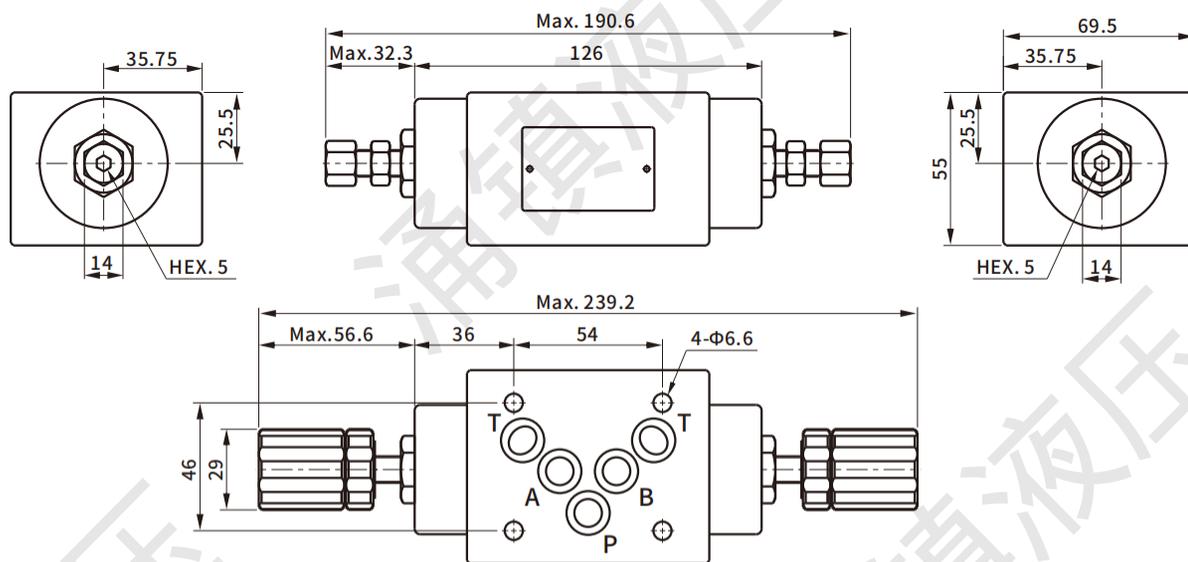


MTC-03B-★★

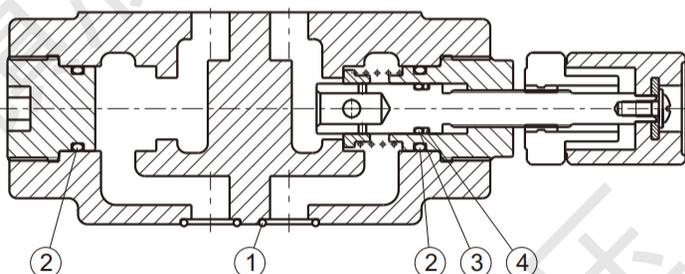
Installation surface: ISO 4401-AC-05-4-A



MTC-03W-★★



● Sealing elements



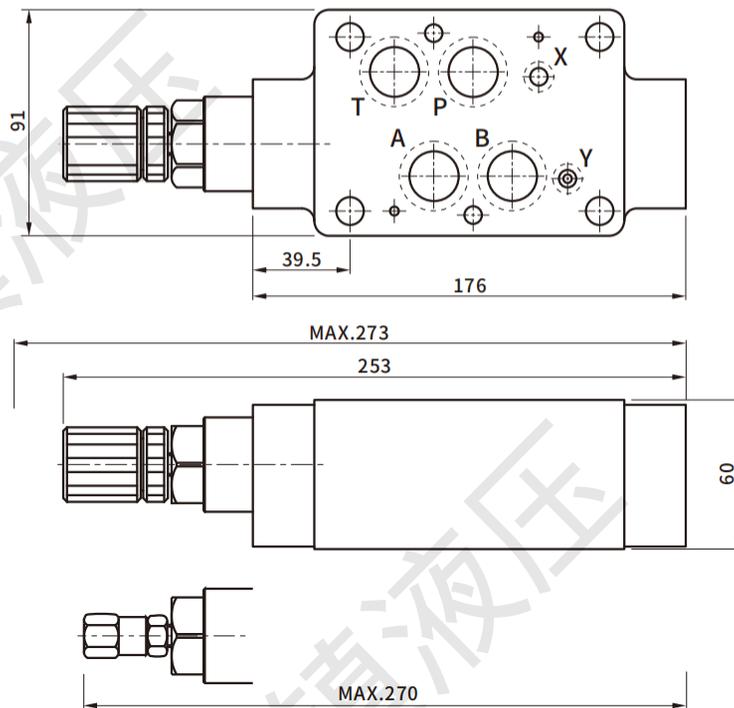
No.	Parts	Model
1	O-ring	AS568-014 HS90°
2	O-ring	P18 HS70°
3	O-ring	P10 HS70°
4	Benito ringback	P10-1.25T

MTC-04*Series

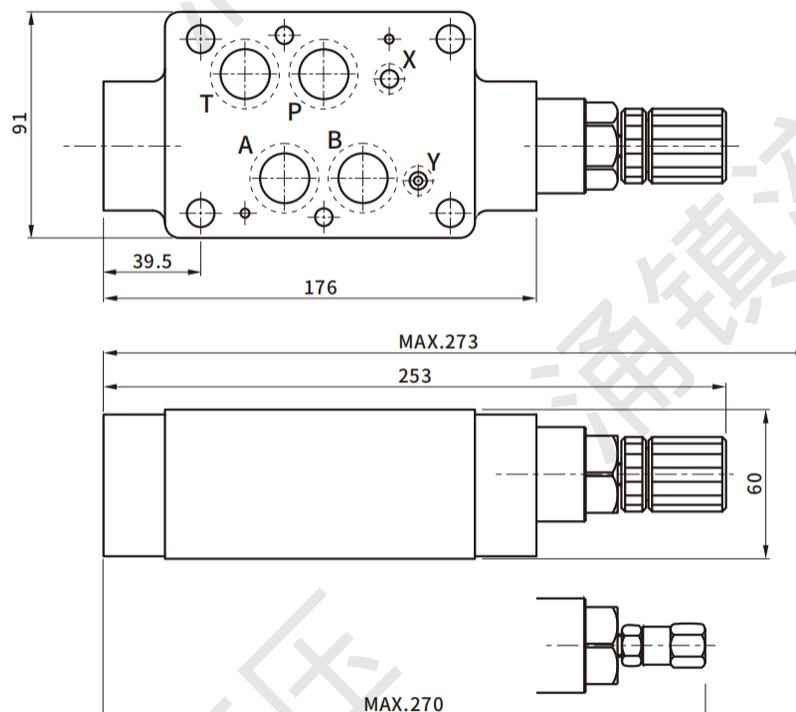
● Dimensions

Installation surface: ISO 4401-AD-07-4-A

MTC-04A-**

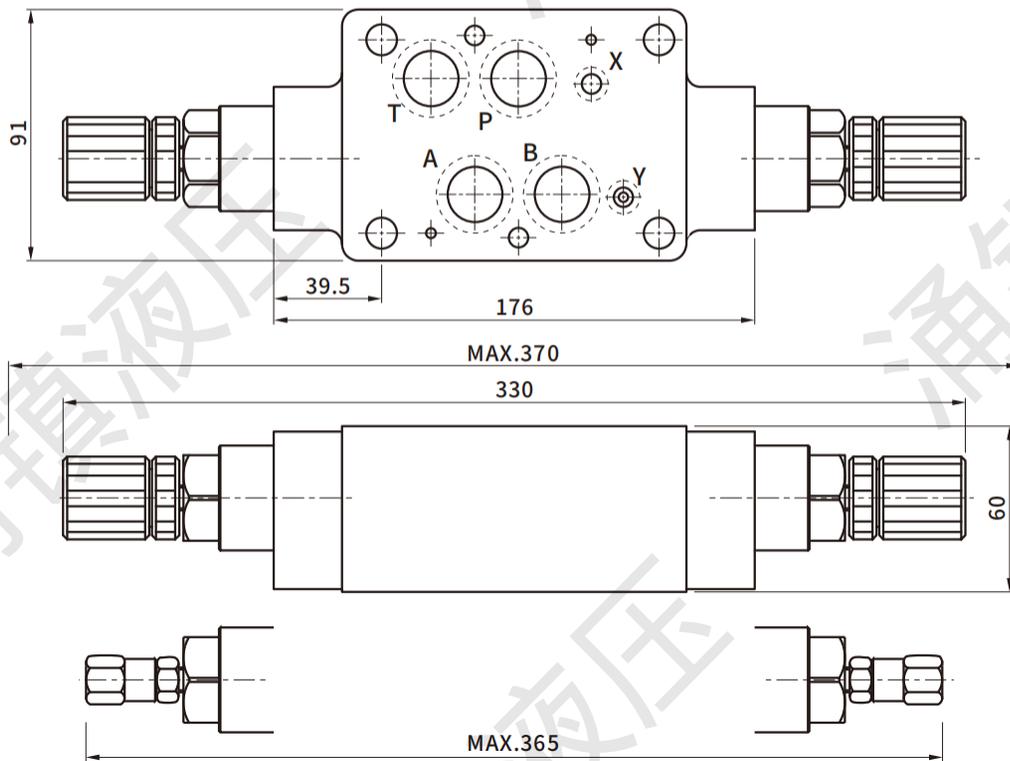


MTC-04B-**



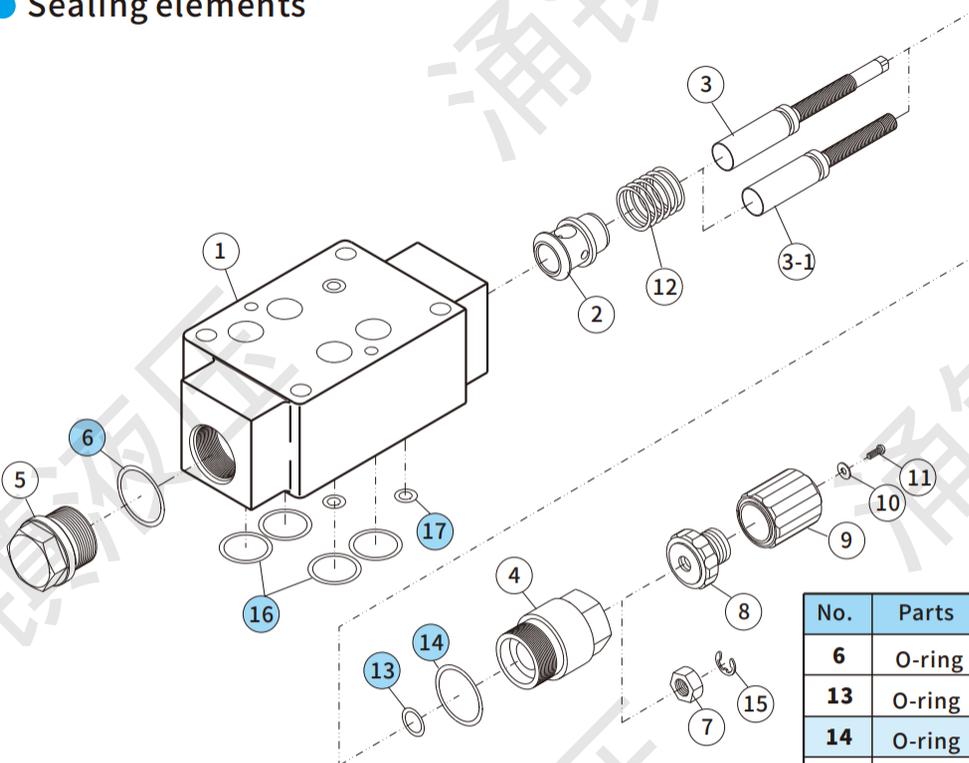
MTC-04W-**

Installation surface: ISO 4401-AD-07-4-A



Modular valve

● Sealing elements



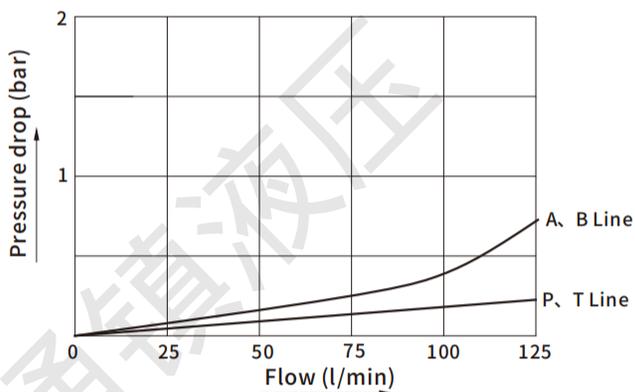
No.	Parts	Model	Quantity
6	O-ring	AS568-123	1
13	O-ring	P12	1
14	O-ring	AS568-123	1
16	O-ring	AS568-123	4
17	O-ring	P9	2

MTC-06*Series

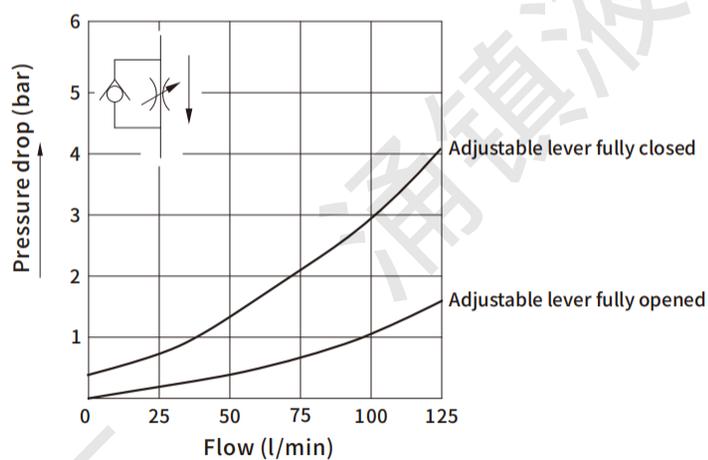
Test conditions: Viscosity: 35cSt; Temperature: 50°C

● Characteristic curve

Pressure drop



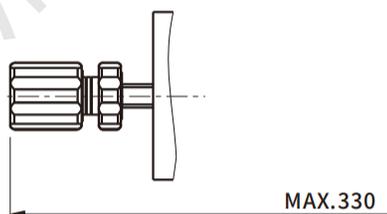
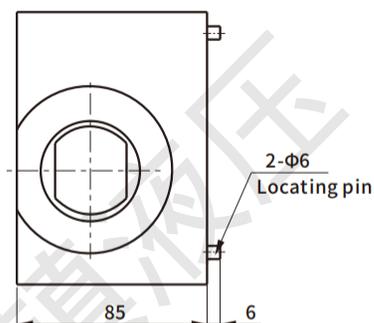
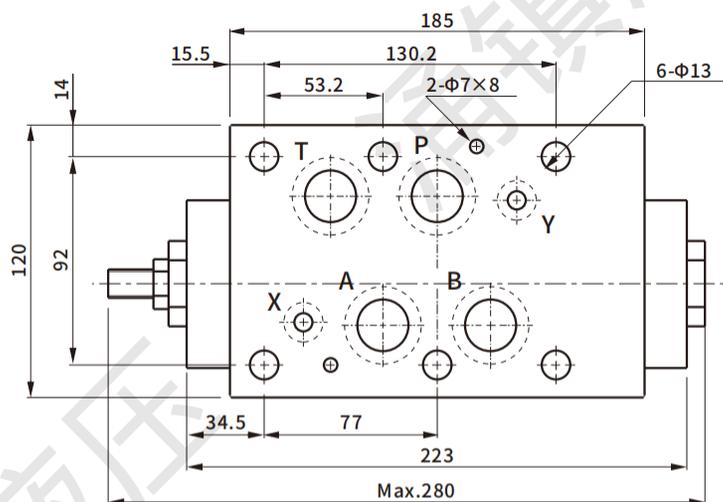
Free flow- pressure drop



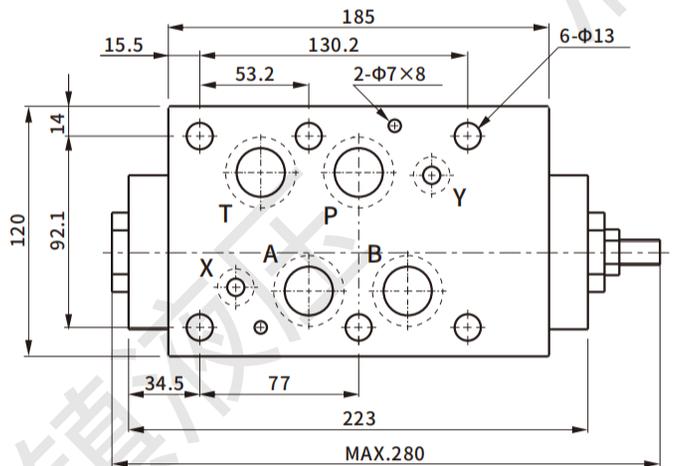
● Dimensions

MTC-06A-★★

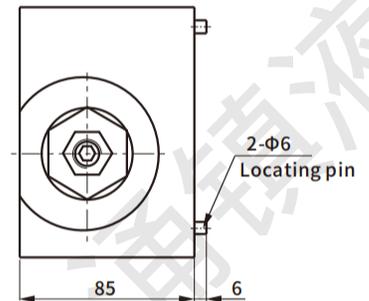
Installation surface: ISO 4401-AE-08-4-A



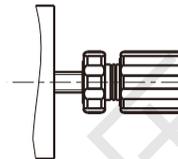
MTC-06B-★★



installation valve: ISO 4401-AE-08-4-A

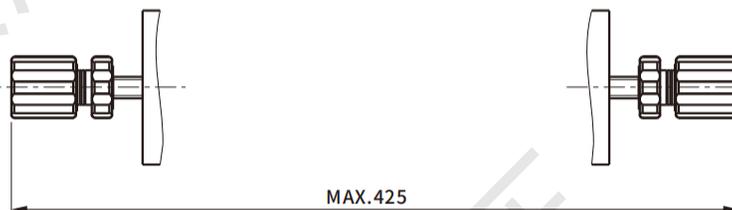
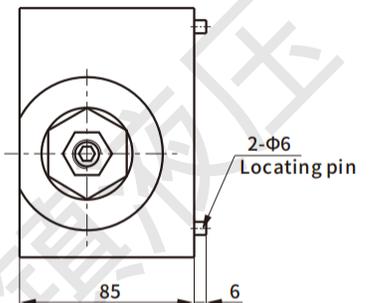
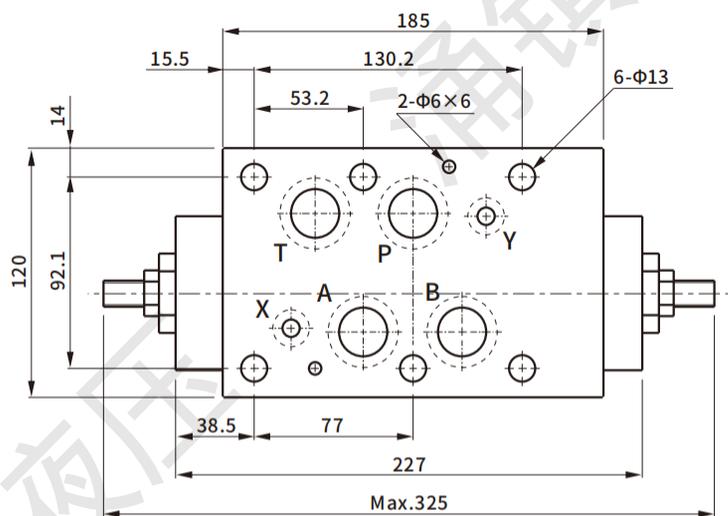


Modular valve



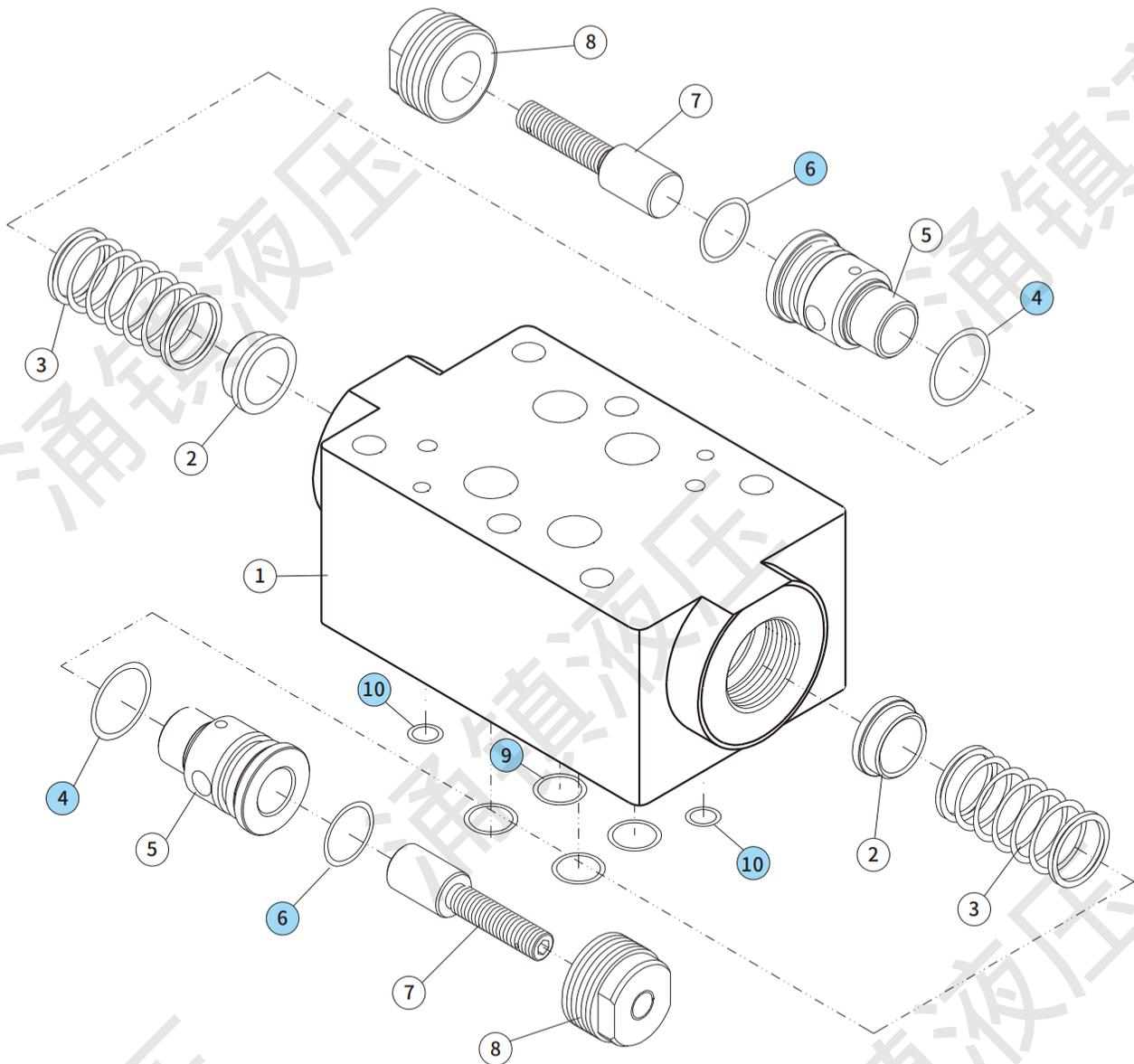
MAX.330

MTC-06W-★★



MAX.425

● Sealing elements

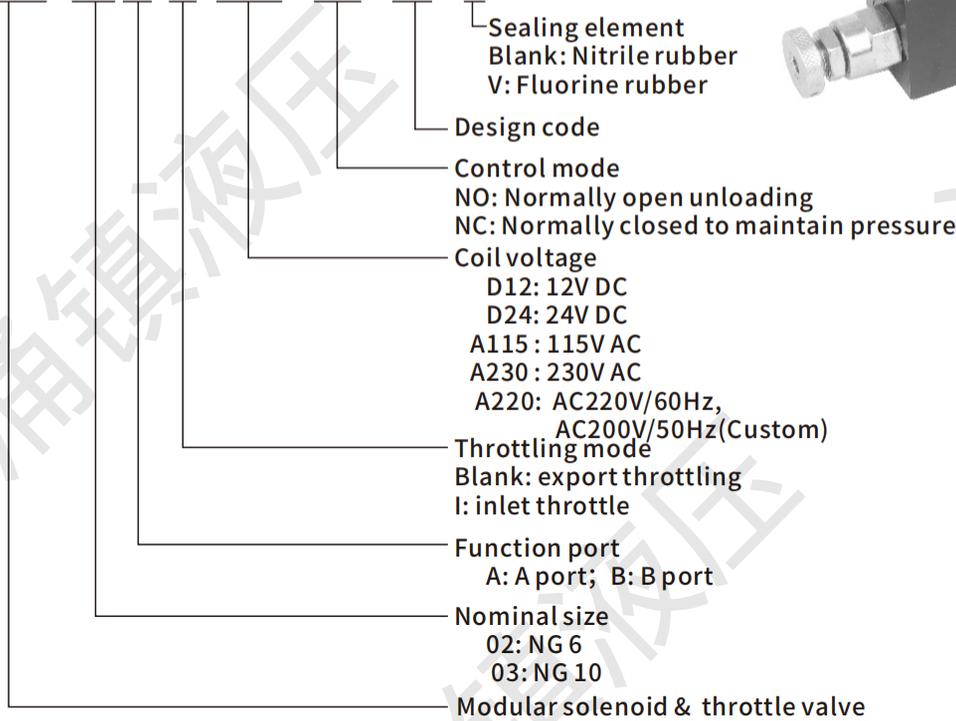


No.	Parts	Model	Quantity
4	O-ring	G30	2
6	O-ring	P20	2
9	O-ring	P28	4
10	O-ring	P14	2

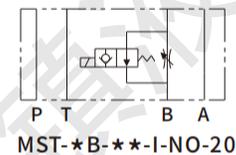
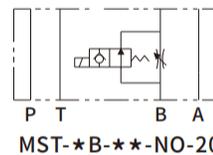
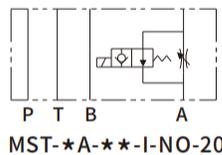
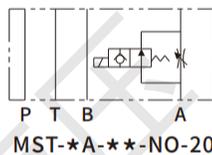
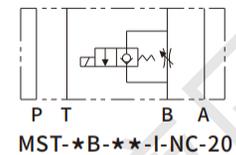
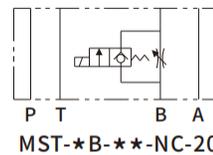
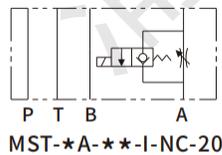
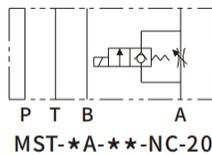
MST Series

How to order

MST-02A-I-D24-NC-20-V



● Symbols



● Specification

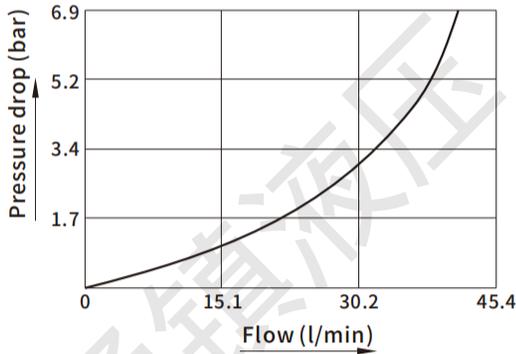
Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MST-02A/B-★★	315	250	20	1.4
MST-03A/B-★★			45	4.2
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12,25μm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

Characteristic curve

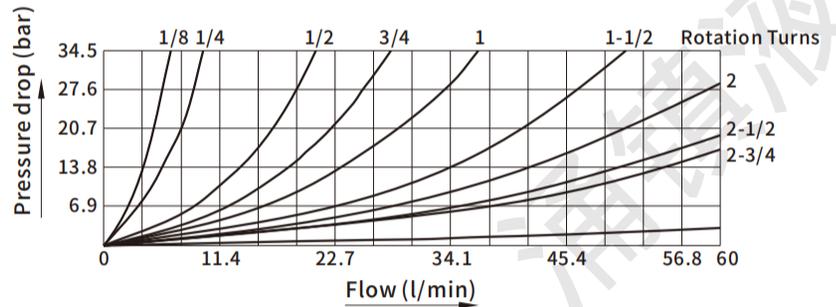
Test conditions: Viscosity: 35cSt; Temperature: 50°C

Free flow- pressure drop

MST-02*-**

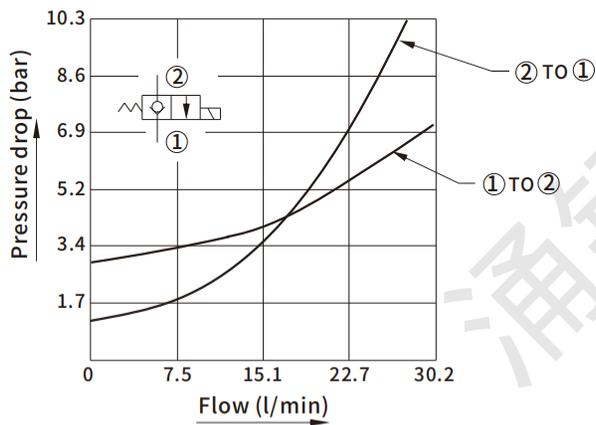


MST-03*-**

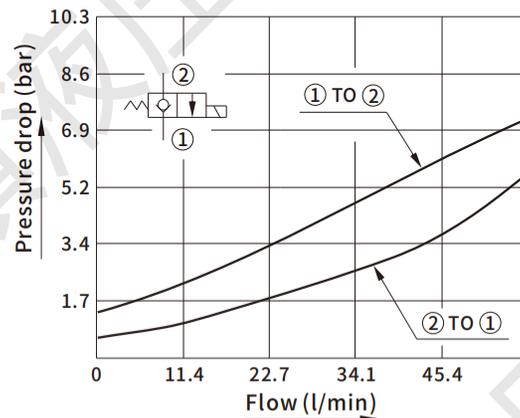


Free flow-pressure drop(When the solenoid directional valve is energized)

MST-02*-**



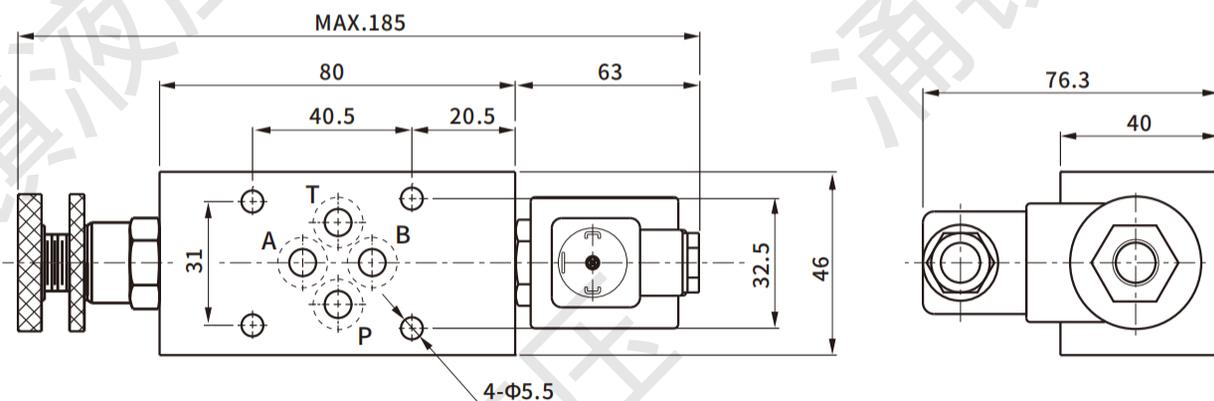
MST-03*-**



Dimensions

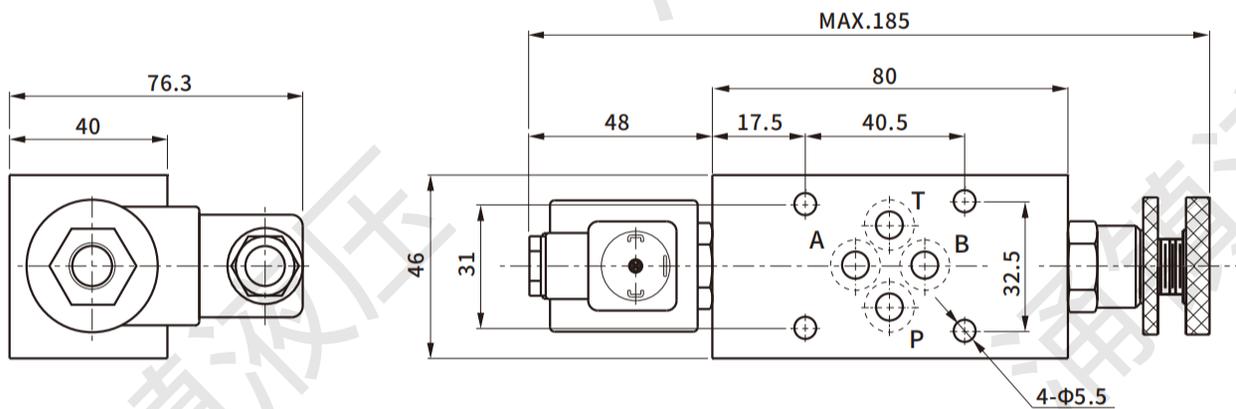
MST-02A-I-**

Installation surface: ISO 4401-AB-03-4-A



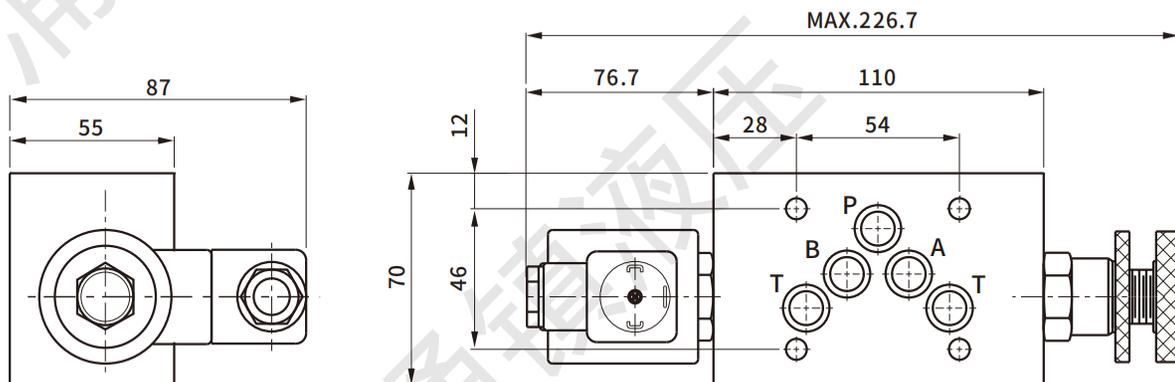
● **MST-02B-I-★★**

Installation surface: ISO 4401-AB-03-4-A



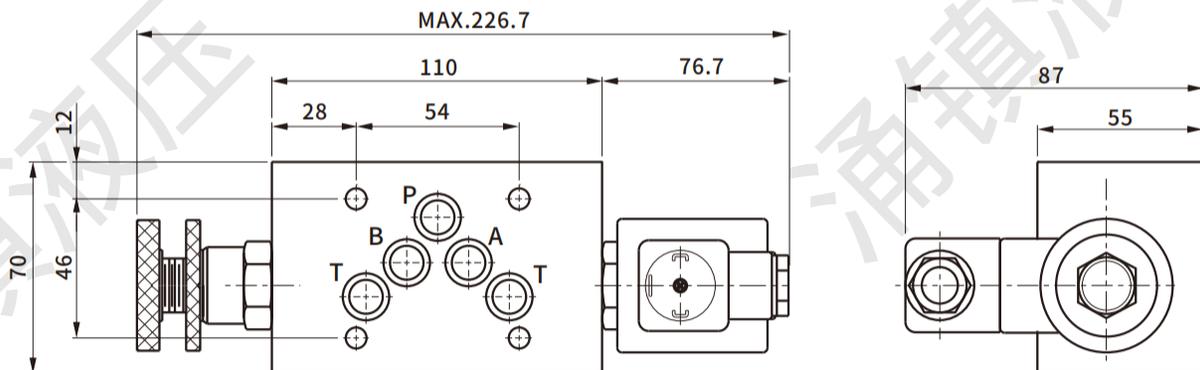
Modular valve

● **MST-03A-I-★★**



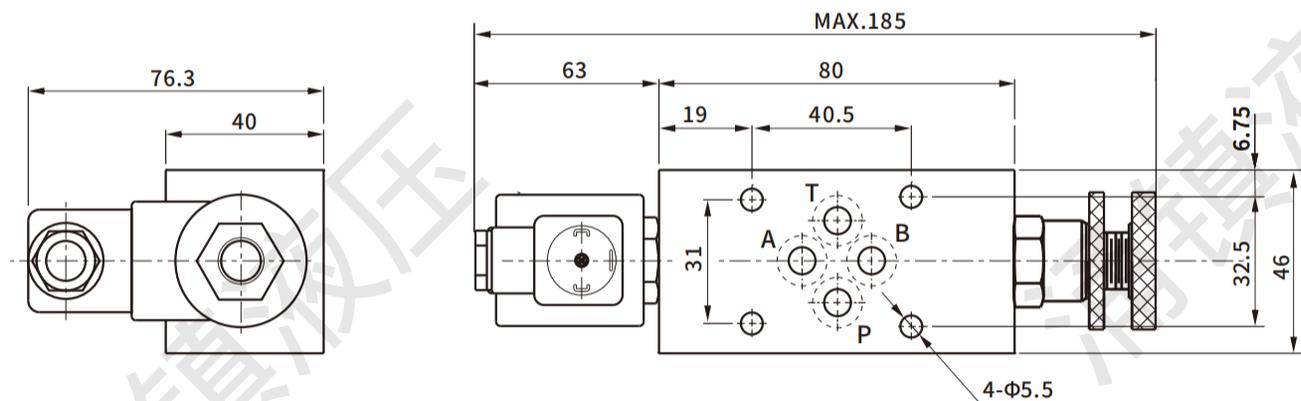
● **MST-03B-★★**

Installation surface: ISO 4401-AC-05-4-A



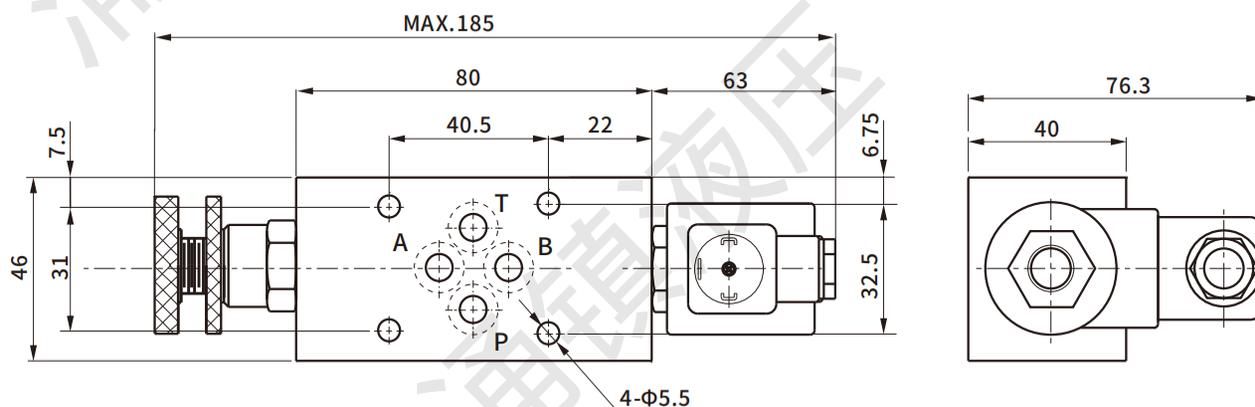
● **MST-02A-★★**

Installation surface : ISO 4401-AB-03-4-A

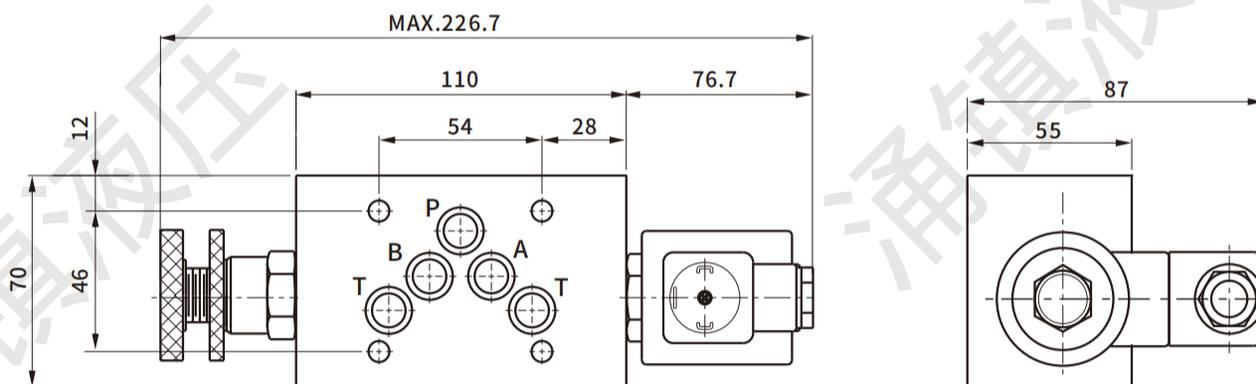


● **MST-02B-★★**

Installation surface: ISO 4401-AB-03-4-A

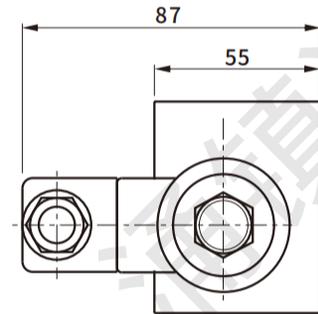
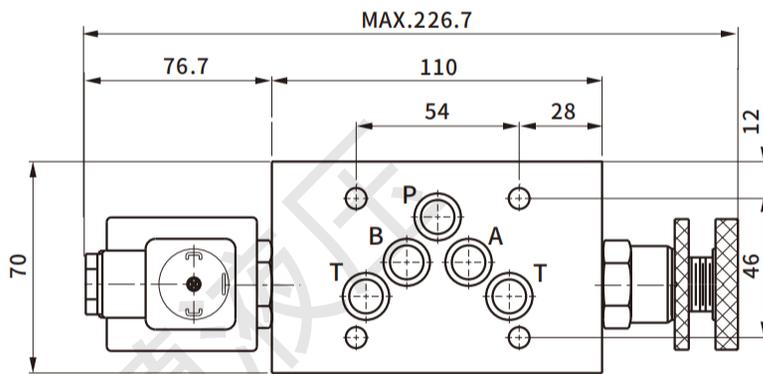


● **MST-03A-★★**



● **MST-03B-I-★★**

Installation surface: ISO 4401-AC-05-4-A

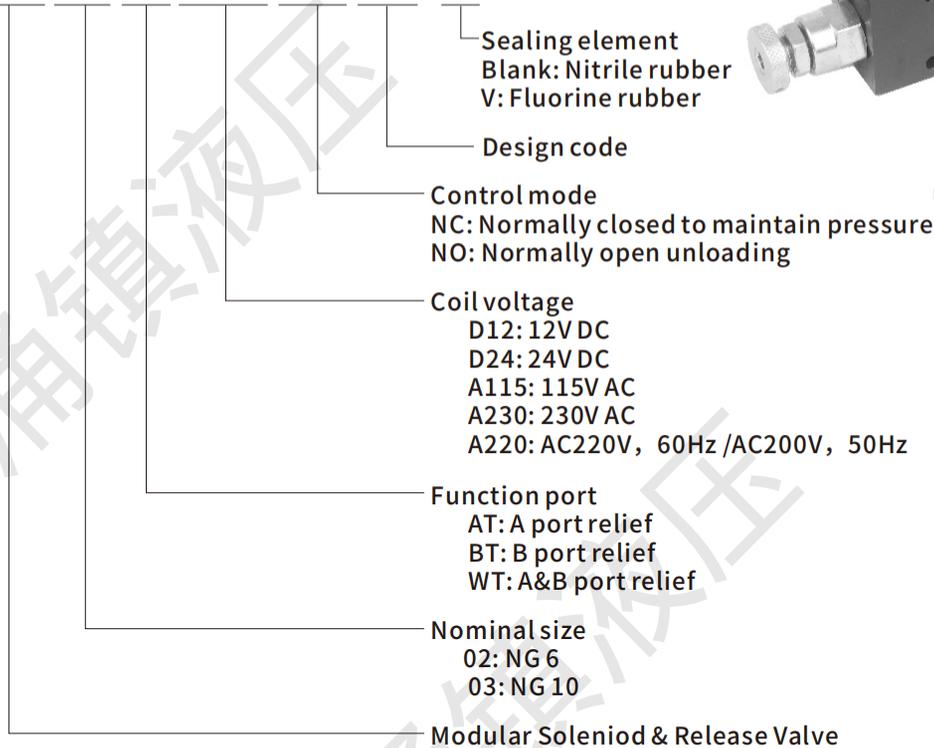


Modular
valve

MST Series

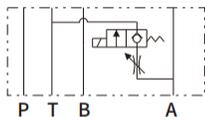
How to order

MST -02 AT -D24 -NC -20 -V

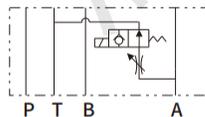


Modular valve

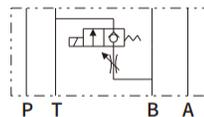
● Symbols



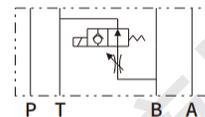
MST-★AT-NC



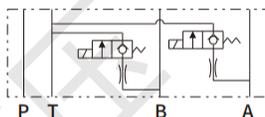
MST-★AT-NO



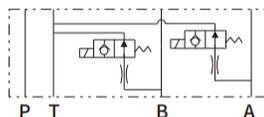
MST-★BT-NC



MST-★BT-NO



MST-★WT-NC



MST-★WT-NO

● Specification

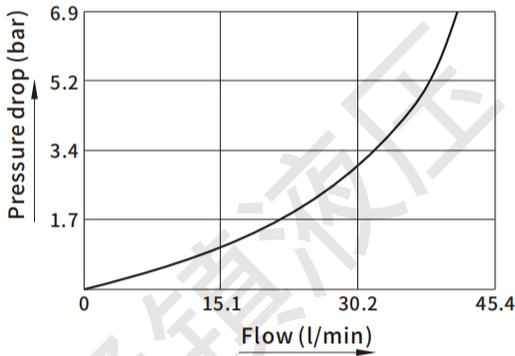
Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MST-02AT/BT/WT-★★	315	250	20	1.4
MST-03AT/BT/WT-★★			45	4.2
Oil	ISO VG 32,46,68	Pollution standards	≤NAS12,25µm	
Viscosity range	10~400 cSt	Surface treatment	Bonderizing	
Operating temperature	-15~70°C			

Characteristic curve

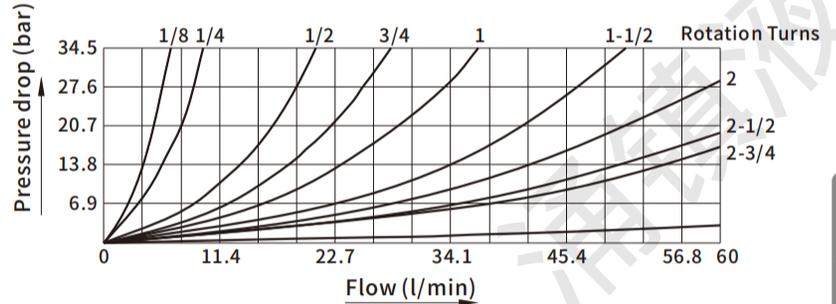
Test conditions: Viscosity: 35cSt; Temperature: 50°C

Free flow -pressure drop

MST-02*-**

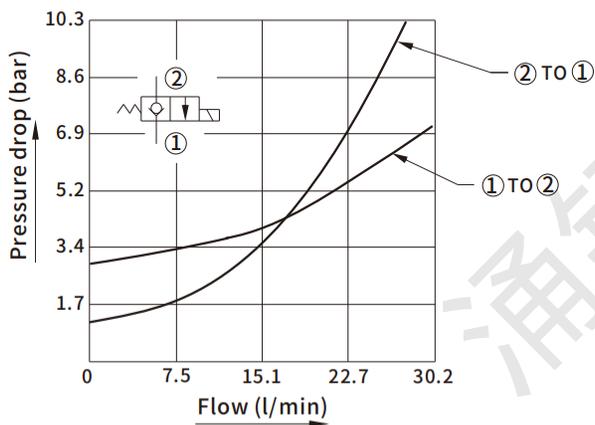


MST-03*-**

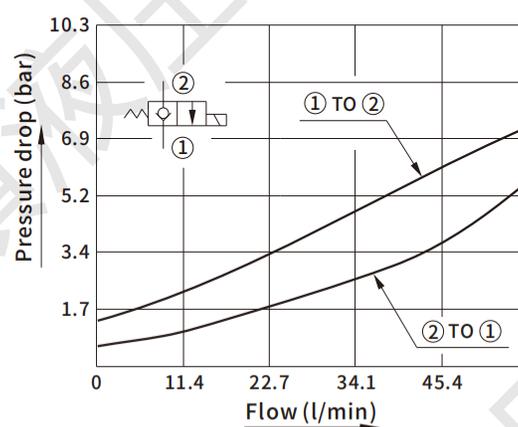


Free flow-pressure drop (When the solenoid valve is energized)

MST-02*-**



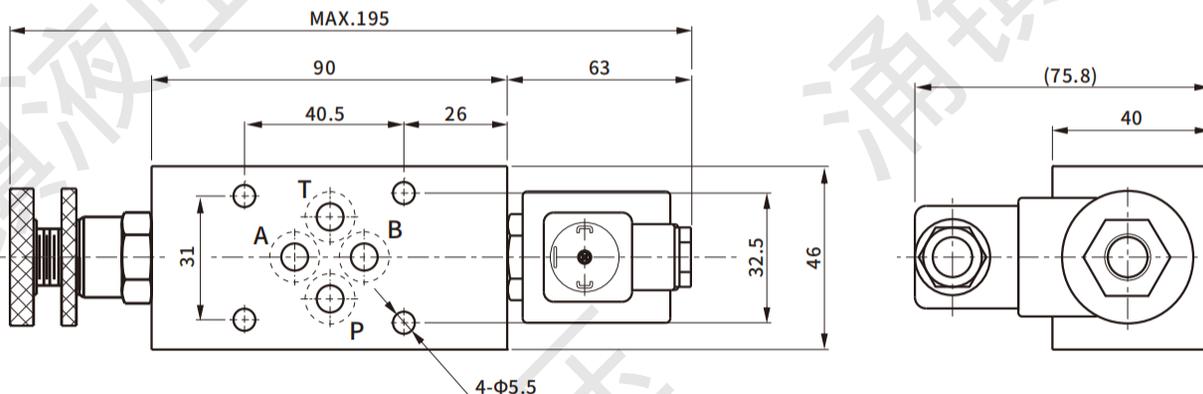
MST-03*-**



Dimensions

Installation surface: ISO 4401-AB-03-4-A

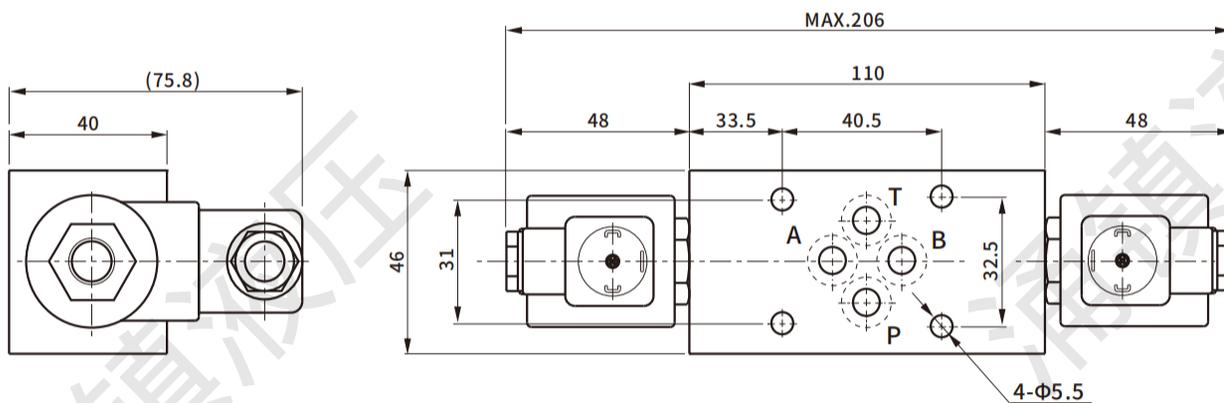
MST-02AT/BT-**



Note: The figure above is MST-02AT. For example, the throttle valve of MST-02BT is on the B side and the on-off valve is on the A side.

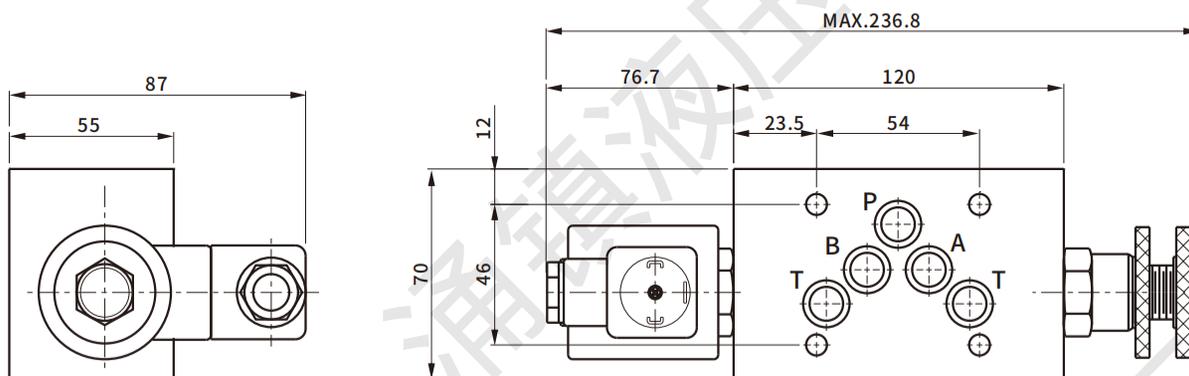
● **MST-02WT-★★**

Installation surface: ISO 4401-AB-03-4-A



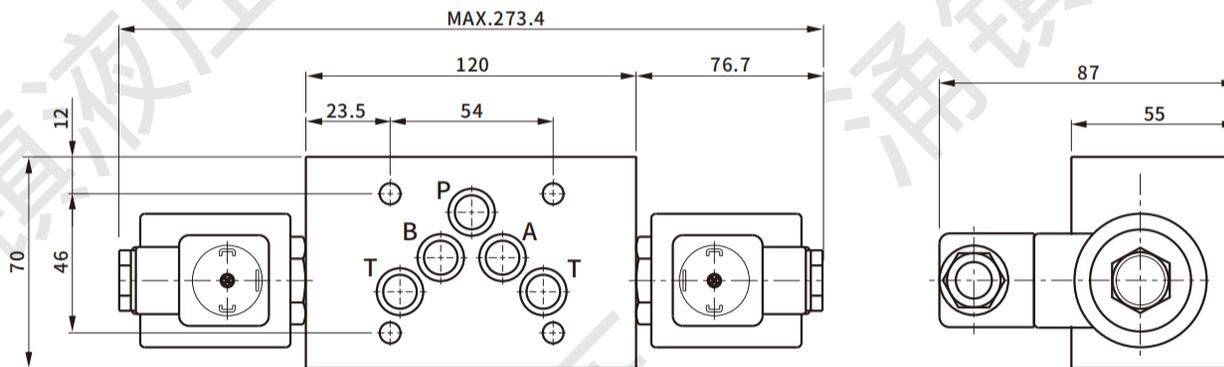
● **MST-03AT/BT-★★**

Installation surface: ISO 4401-AC-05-4-A



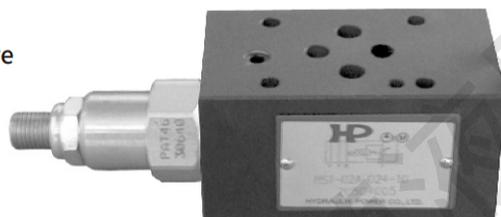
Note: The figure above is MST-03AT, such as the MST-03BT throttle valve on the B side and the on-off valve on the A side.

● **MST-03WT-★★**



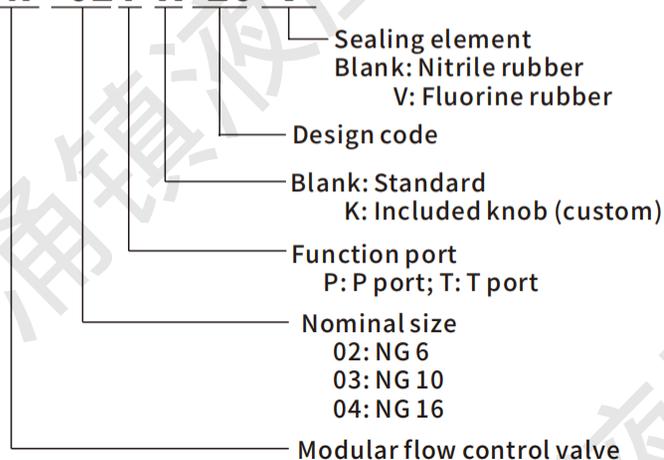
MF Series

MF series is pressure compensation superimposed type speed regulating valve, can maintain a stable flow, not with the system pressure (load) and change, used in the control of the hydraulic circuit flow, so as to accurately control the speed of the actuator.

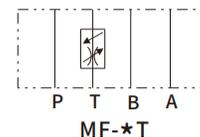
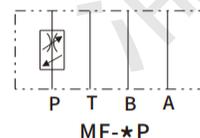


How to order

MF -02 P K -20 -V



● Symbols



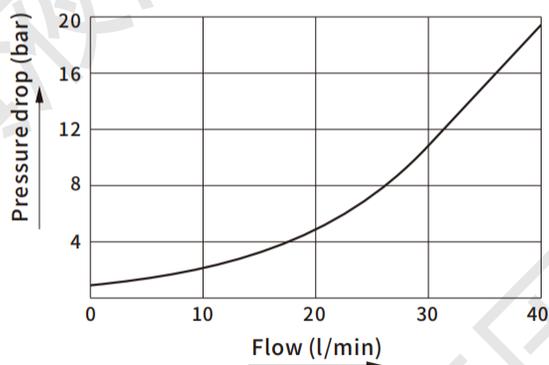
● Specification

Mode	Max. pressure (bar)	Rated pressure (bar)	Rated flow (l/min)
MF-02★-20	315	250	23
MF-03★-20			45
MF-04★-20			95

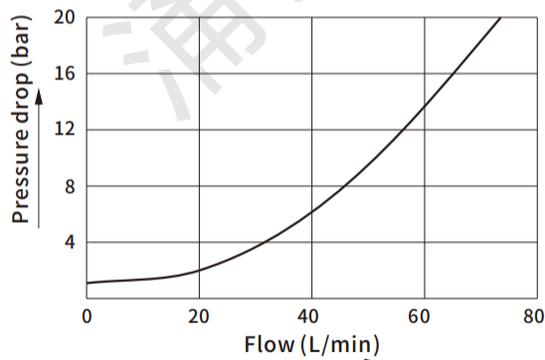
Characteristic curve

● Flow-pressure drop

MF-02★

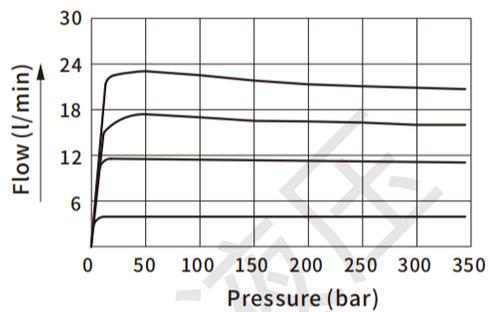


MF-03★

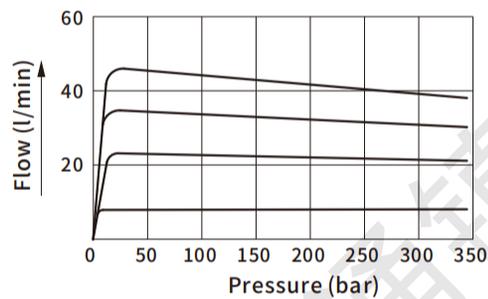


Flow

MF-02★



MF-03★

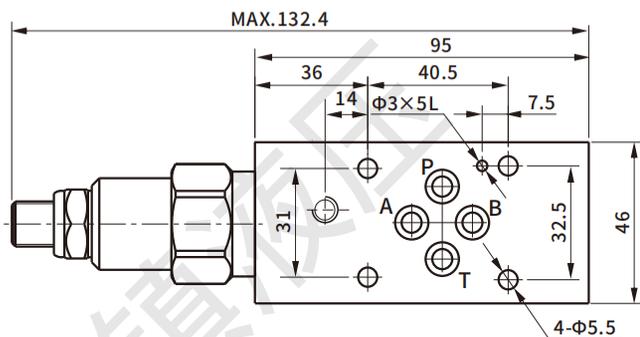
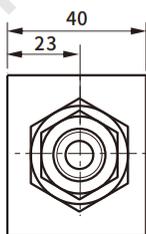


Dimensions

Units: mm

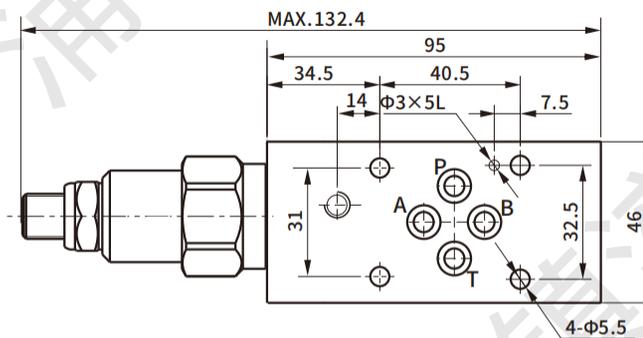
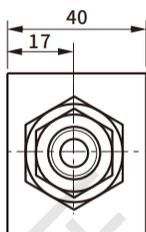
MF-02P-20

Installation surface: ISO 4401-AB-03-4-A



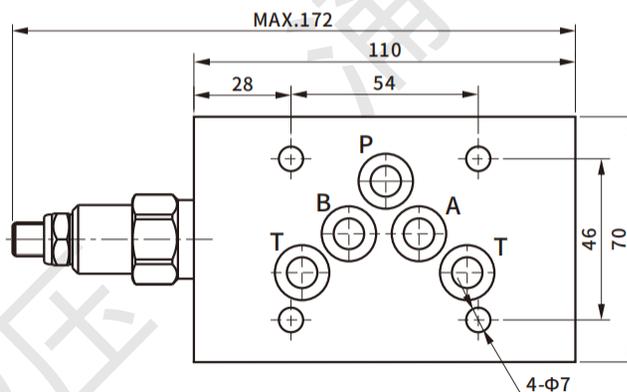
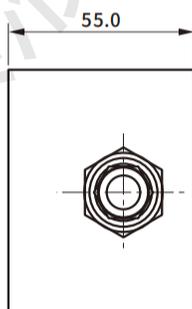
MF-02T-20

Installation surface: ISO 4401-AB-03-4-A



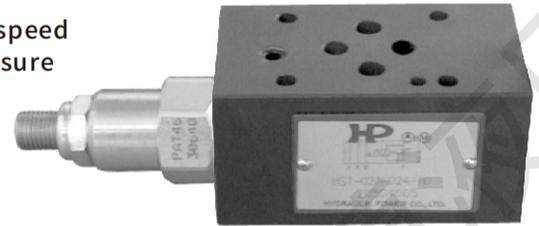
MF-03P/T-20

Installation surface: ISO 4401-AC-05-4-A



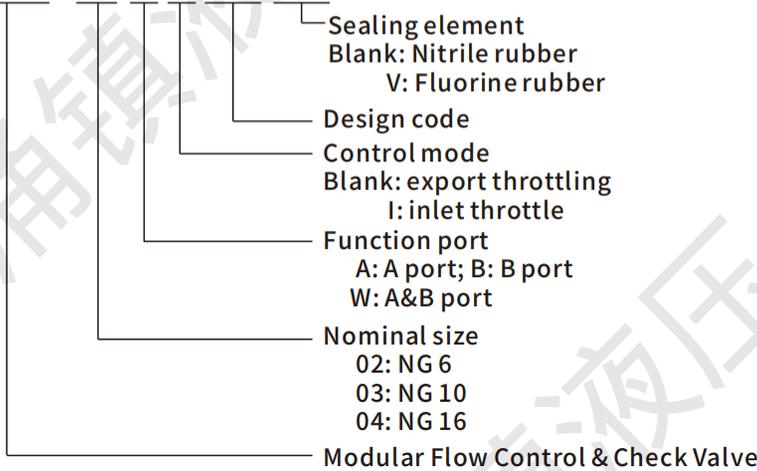
MFC Series

1. MFC series is pressure compensation type superimposed one-way speed regulating valve, can maintain a stable flow, not with the system pressure (load) and change, used in the control of the hydraulic circuit flow, so as to accurately control the speed of the actuator.
2. one-way speed regulating valve so that the flow in one direction can be adjusted and the reverse flow can be free.

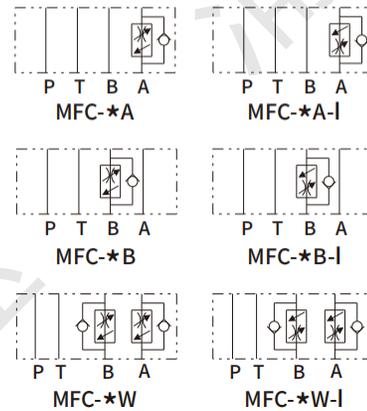


How to order

MFC -02 A -I -20 -V



● Symbols



Modular valve

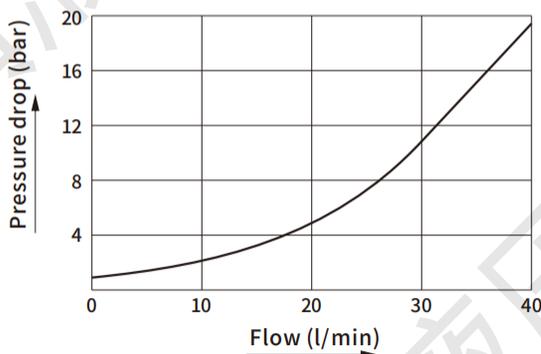
● Specification

Mode	Max. pressure (bar)	Rated pressure (bar)	Rated flow (l/min)
MFC-02★-★-20	315	250	23
MFC-03★-★-20			45
MFC-04★-★-20			95

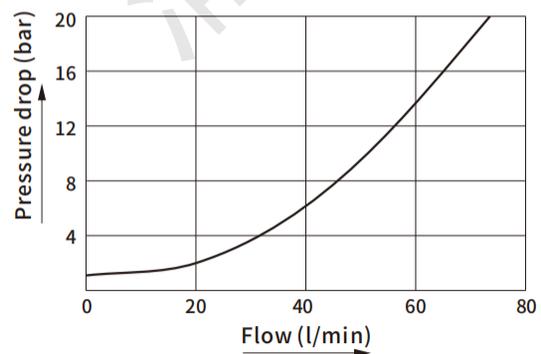
Characteristic curve

● Flow-pressure drop

MFC-02★

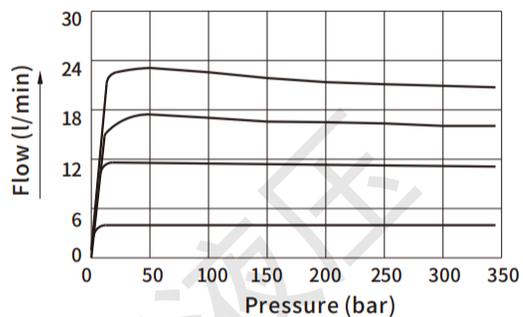


MFC-03★

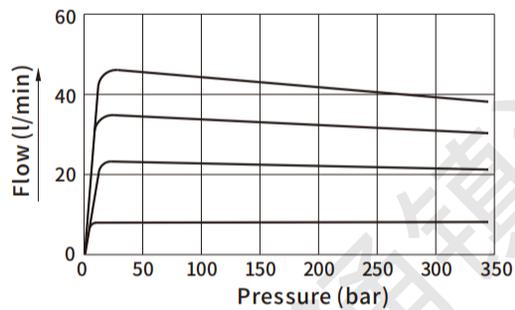


● Flow

MFC-02★



MFC-03★

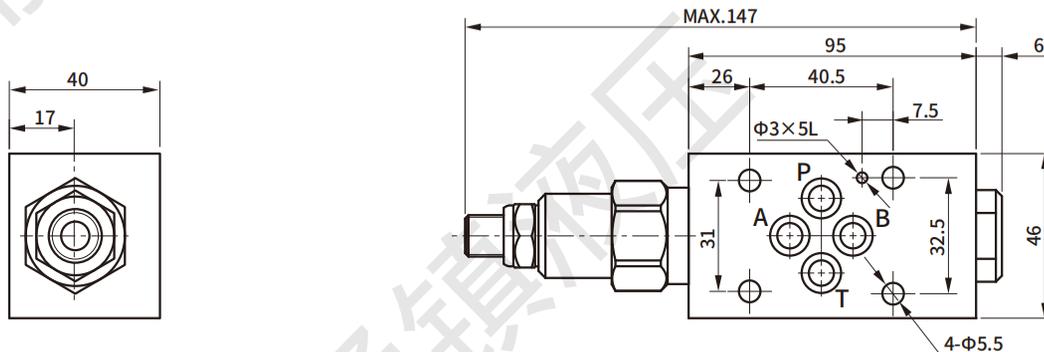


Dimensions

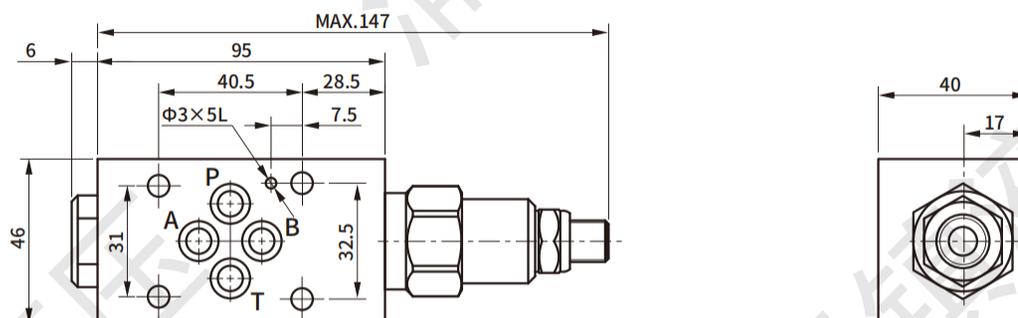
Units: mm

Installation surface: ISO 4401-AB-03-4-A

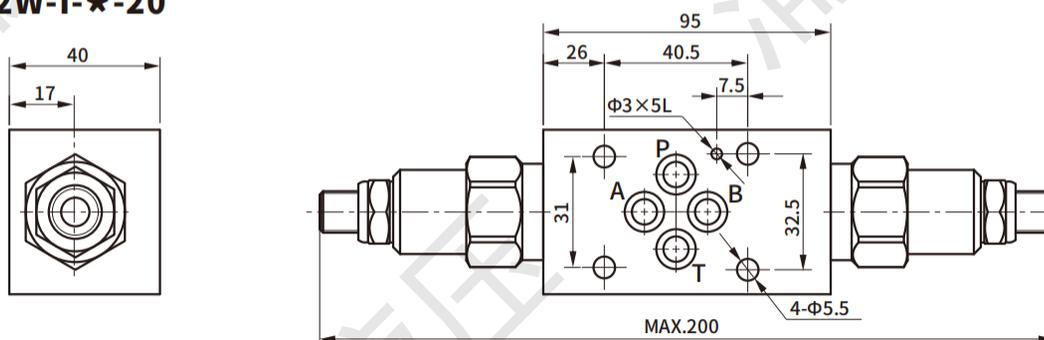
● **MFC-02A-I-★-20**



● **MFC-02B-I-★-20**

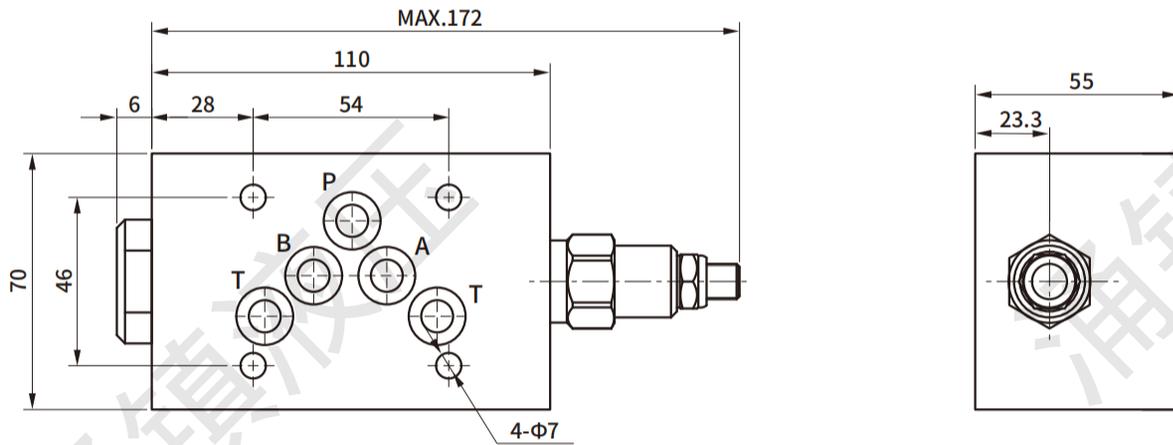


● **MFC-02W-I-★-20**

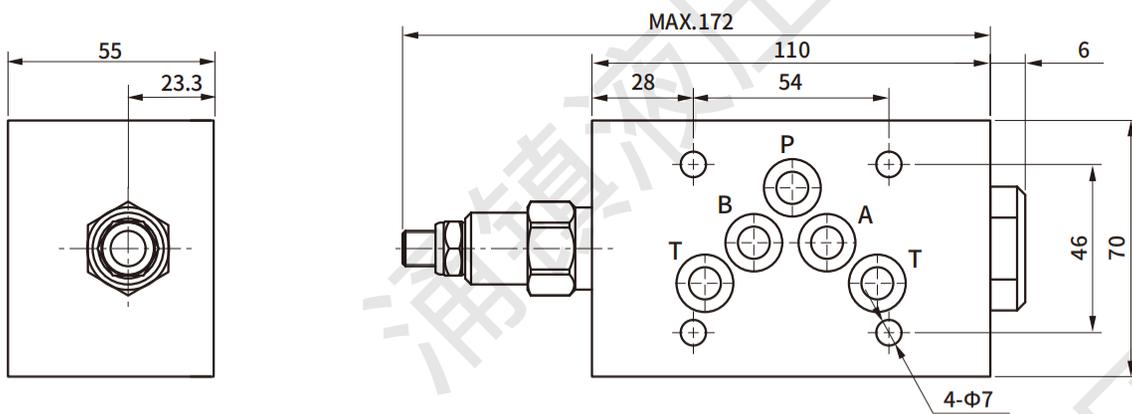


● **MFC-03A-★-20**

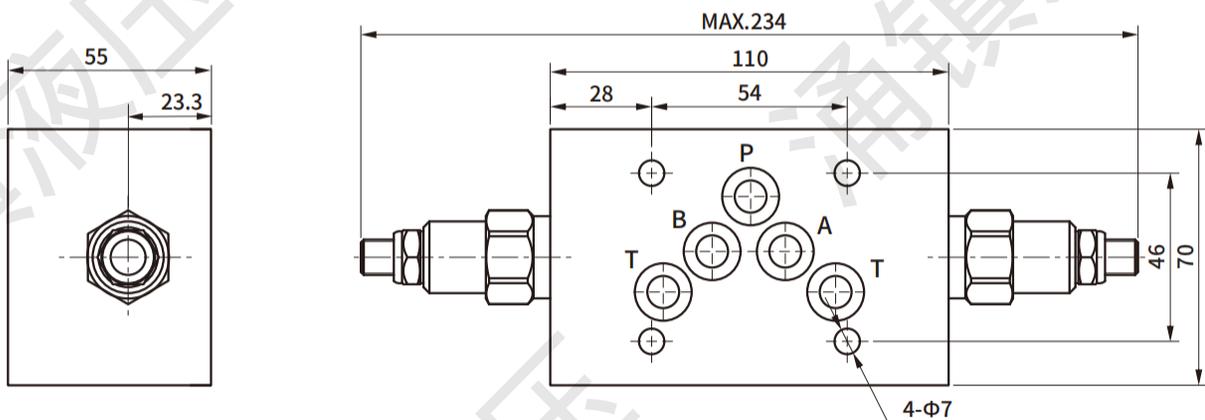
Installation surface: ISO 4401-AC-05-4-A



● **MFC-03B-★-20**



● **MFC-03W-★-20**



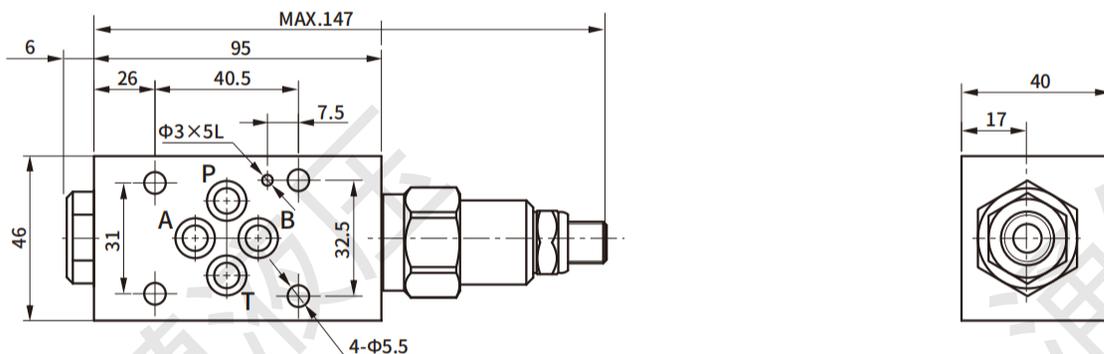
Modular valve

Dimensions

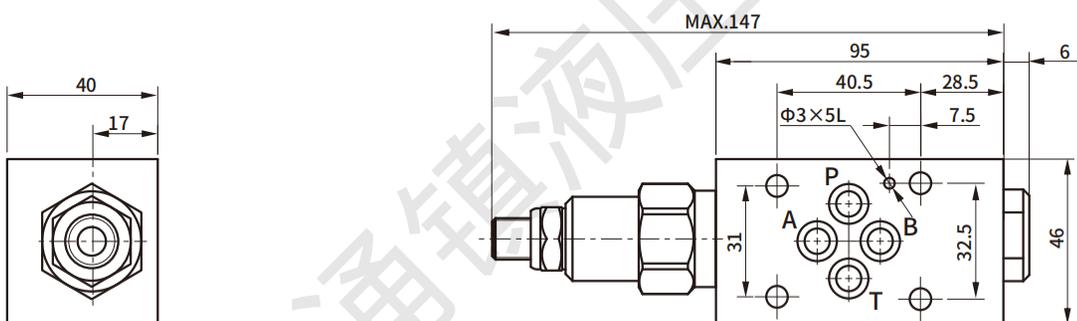
Units: mm

Installation surface: ISO 4401-AB-03-4-A

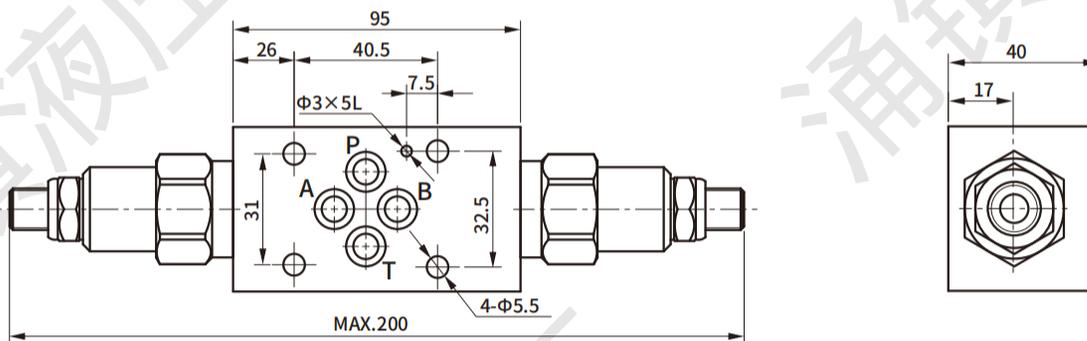
● MFC-02A-★-20



● MFC-02B-★-20

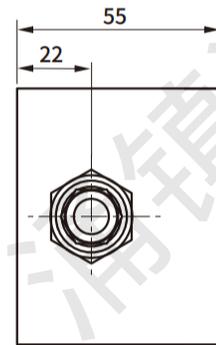
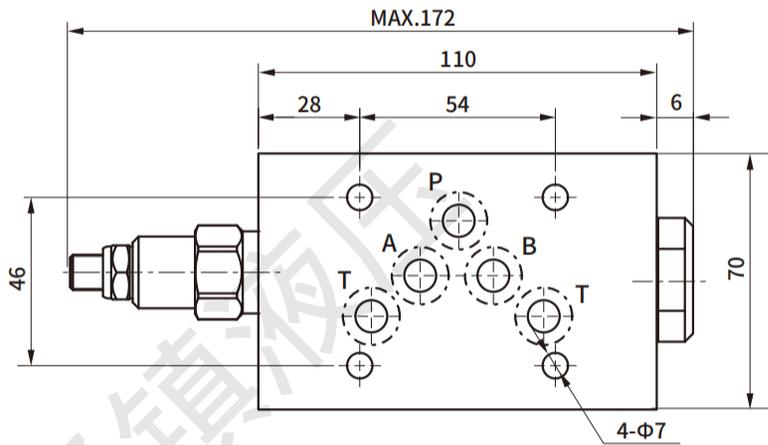


● MFC-02W-★-20



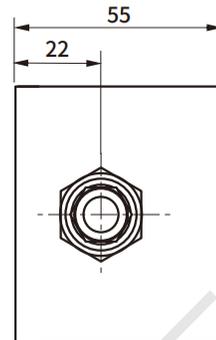
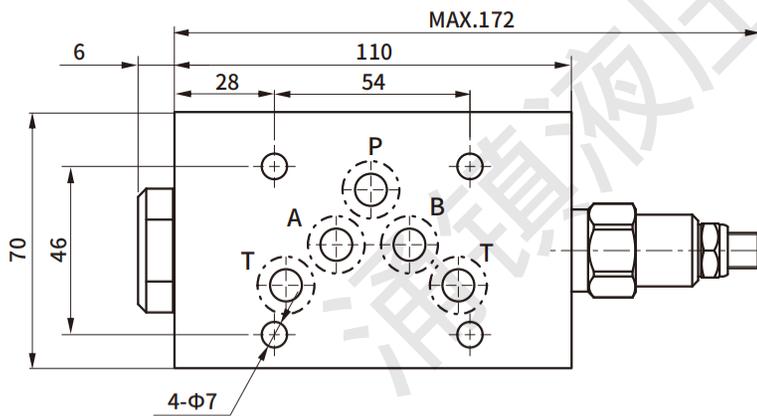
● **MFC-03A-I-★-20**

Installation surface: ISO 4401-AC-05-4-A

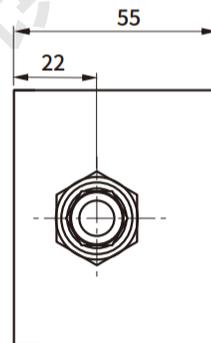
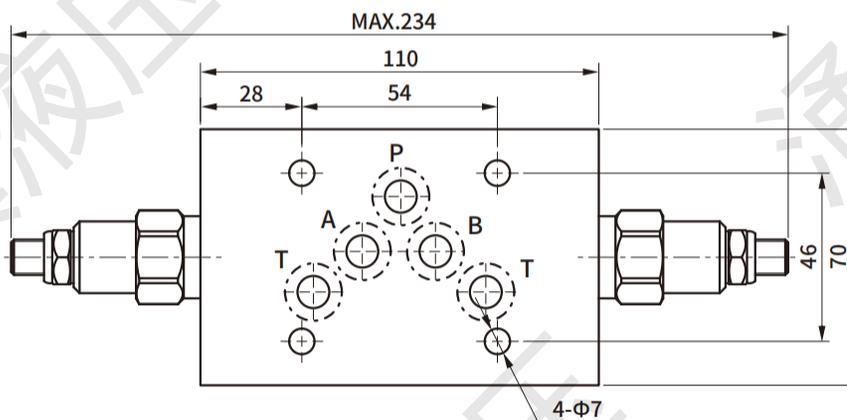


Modular
valve

● **MFC-03B-I-★-20**



● **MFC-03W-I-★-20**



MSF Series

1. MSF series is pressure compensation type superimposed type electronic control speed regulating valve, can maintain a stable flow, does not change with the system pressure (load), used in the control of hydraulic circuit flow, so as to accurately control the speed of the actuator.
2. Electronic control speed regulating valve so that the flow in one direction can be adjusted, and can be used solenoid valve NO/OFF to control the full flow or speed regulating valve flow, reverse free flow.



How to order

MSF -02 A -K -I -D24 -NO -20 -V

Modular solenoid flow control valve

Nominal size
02: NG 6
03: NG 10
04: NG16

Function port
A: A port
B: B port

Adjusting rod type
Blank: Standard
K: With plastic knob (custom)

Speed regulation mode
Blank: Exit speed regulation
I: Inlet speed control

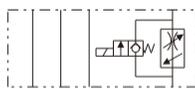
Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code

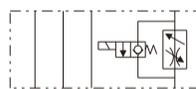
Control mode
NO: Normally open unloading
NC: Normally closed to maintain pressure

Coil voltage
D12: 12V DC
D24: 24V DC
A115: 115VAC
A230: 230VAC
A220: AC220V/60Hz,
AC200V/50Hz(Custom)

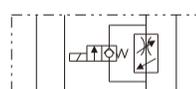
● Symbols



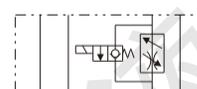
P T B A
MSF-*A-NC



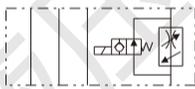
P T B A
MSF-*A-I-NC



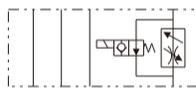
P T B A
MSF-*B-NC



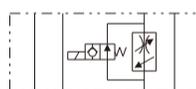
P T B A
MSF-*B-I-NC



P T B A
MSF-*A-NO



P T B A
MSF-*A-I-NO



P T B A
MSF-*B-NO



P T B A
MSF-*B-I-NO

● Specification

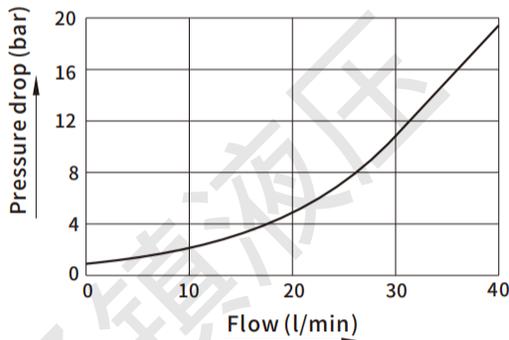
Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Weight (kg)
MSF-02A/B-*	315	250	23	1.4
MSF-03A/B-*			45	4.2
MSF-04A/B-*			95	7.6

Characteristic curve

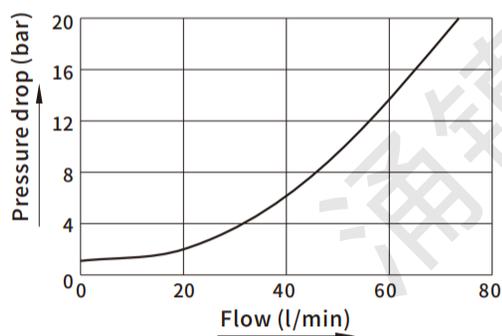
Test conditions: Viscosity: 35cSt; Temperature: 50°C

Free flow- pressure drop

MSF-02-***

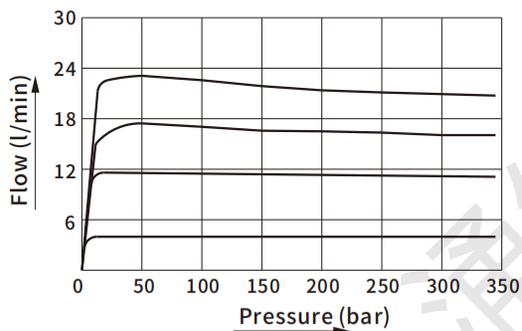


MSF-03-***

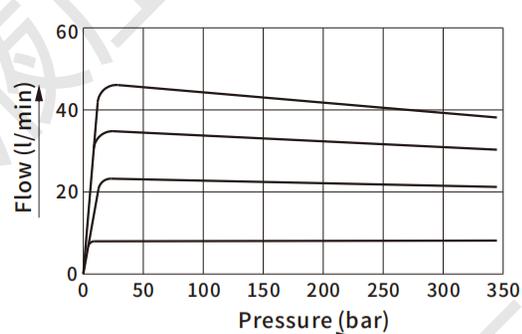


Flow

MSF-02-***



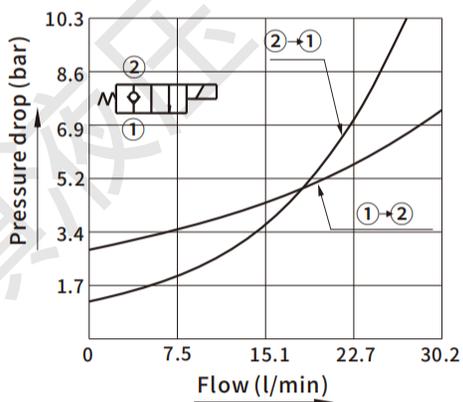
MSF-03-***



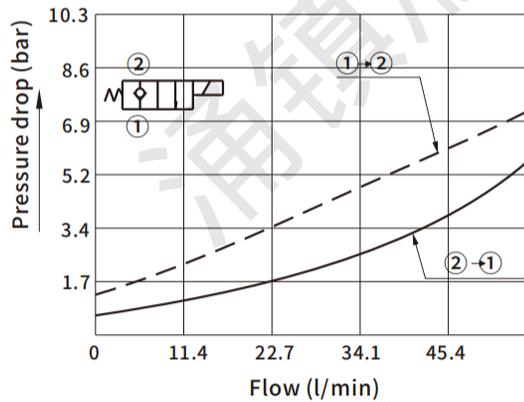
Cartridge solenoid directional valve

Free flow-pressure drop → ① ②
 Flow-pressure drop (when energized) → ② ①

MSF-02-***



MSF-03-***

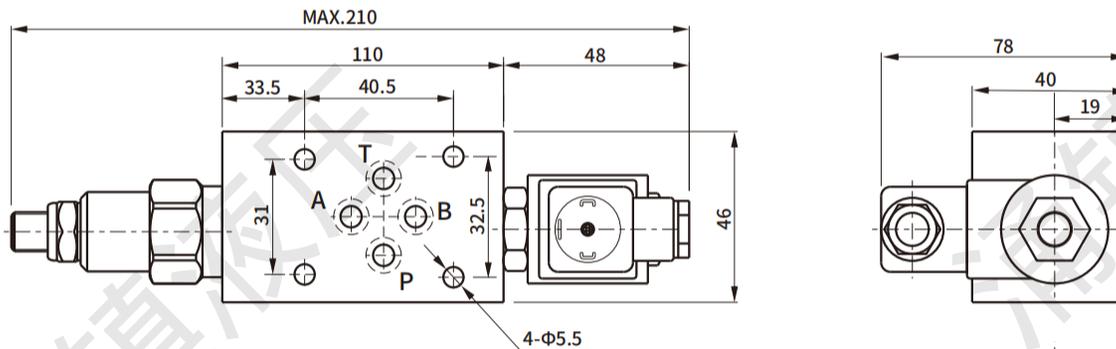


Dimensions

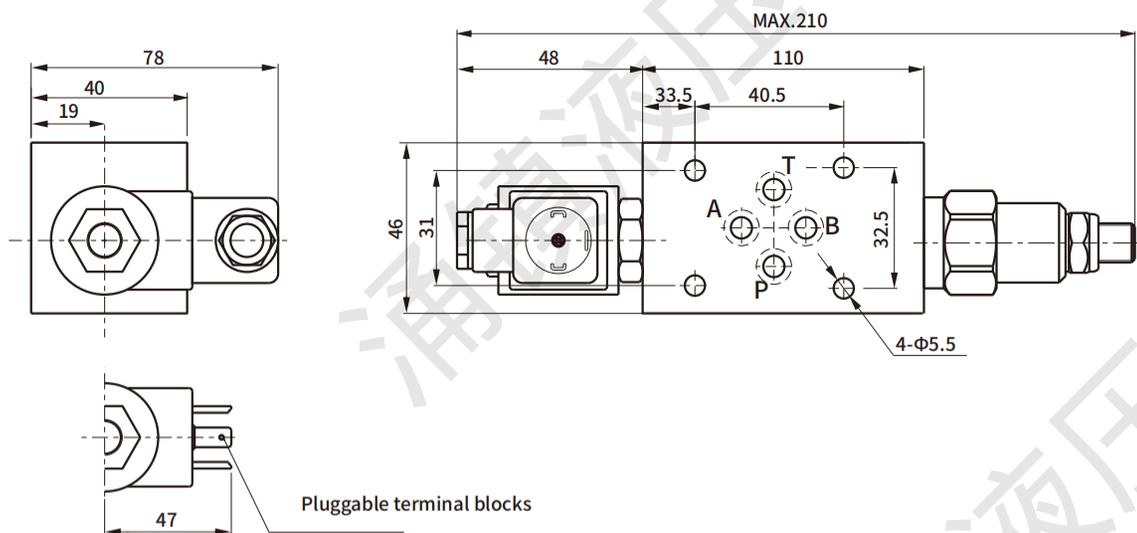
Units: mm

Installation surface: ISO 4401-AB-03-4-A

● MSF-02A-★★

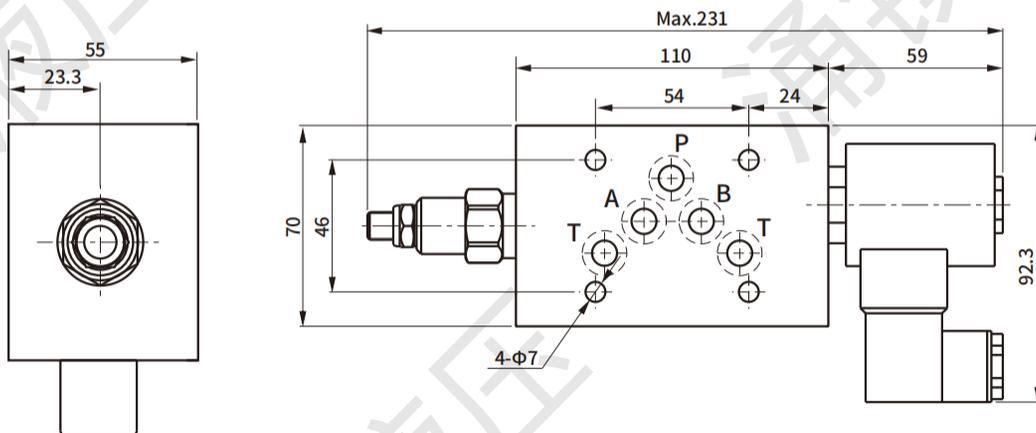


● MSF-02B-★★



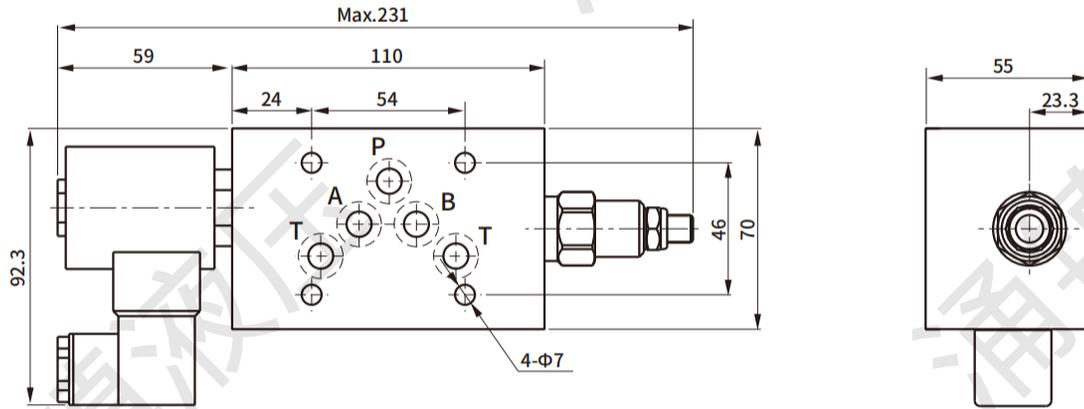
● MSF-03A-★★

Installation surface: ISO 4401-AC-05-4-A

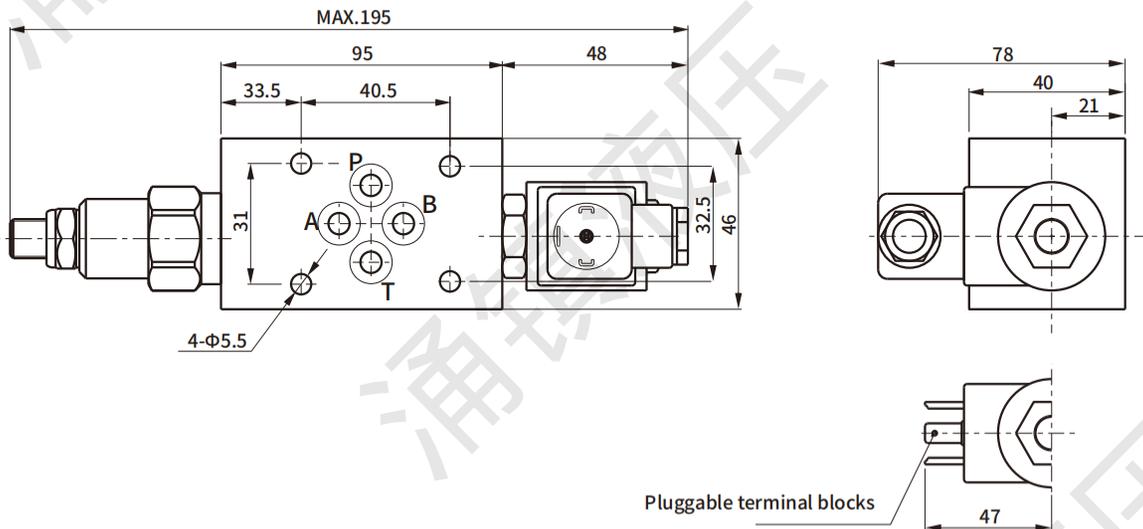


● **MSF-03B-★★**

Installation surface: ISO 4401-AC-05-4-A

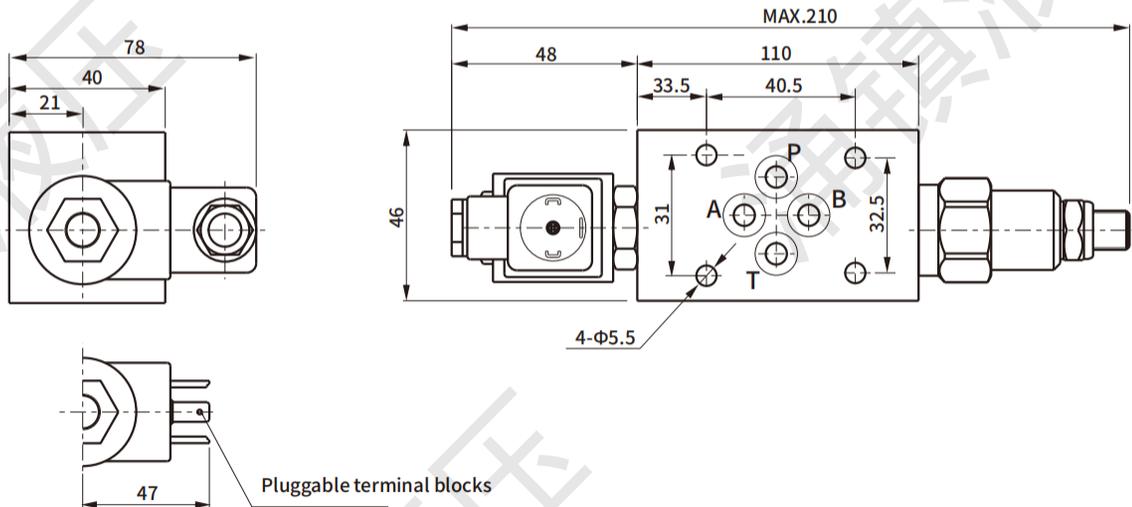


● **MSF-02A-I-★★**



● **MSF-02B-I-★★**

Installation surface: ISO 4401-AB-03-4-A



MPS Series



How to order

MPS -02 A -K -1 -P -20 -V

Modular pressure switch

Nominal size
02: NG 6
03: NG 10

Function port
P: P port; A: A port
B: B port; W: A&B port

Sealing element
Blank: Nitrile rubber
V: Fluorine rubber

Design code

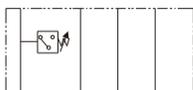
Angle plug position
P: On the P port side
T: On the T port side

Pressure range
1: 5~70bar
2: 10~125bar
3: 25~250bar

Adjusting rod type
Blank: No knobs (standard)
K: With plastic knob (custom)

Note: When using DC power supply, a surge device should be installed to extend the life of the contact.

● Symbols



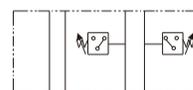
P T B A
MPS-02/03P-**



P T B A
MPS-02/03A-**

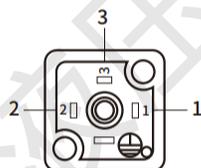


P T B A
MPS-02/03B-**

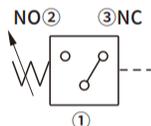


PT B A
MPS-02/03W-**

● Appliance Diagram



1: Common port
2: Normally open
3: Normally close



● Specification

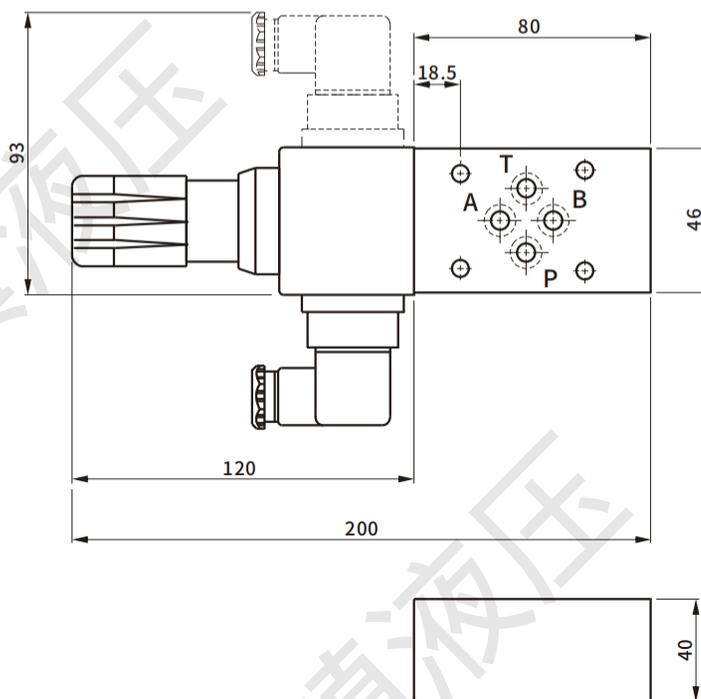
Mode	Max. pressure (bar)	Rated pressure (bar)	Max. flow (l/min)	Pressure range (bar)
MPS-02*-**-20	315	250	35	1: 5~70
MPS-03*-**-20			70	2: 10~125 3: 25~250

Dimensions

Units : mm

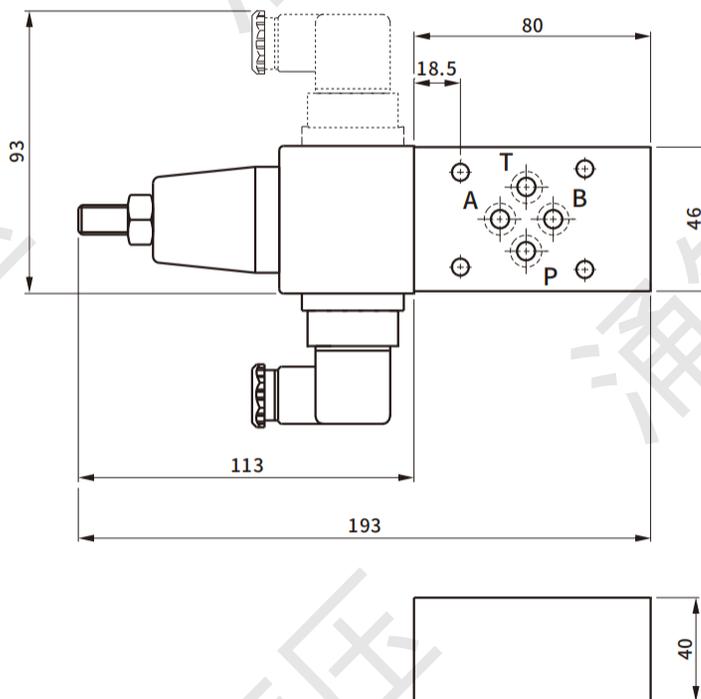
● MPS-02A/P-K-**-20

Installation surface: ISO-4401-AB-03-4-A



● MPS-02A/P-**-20

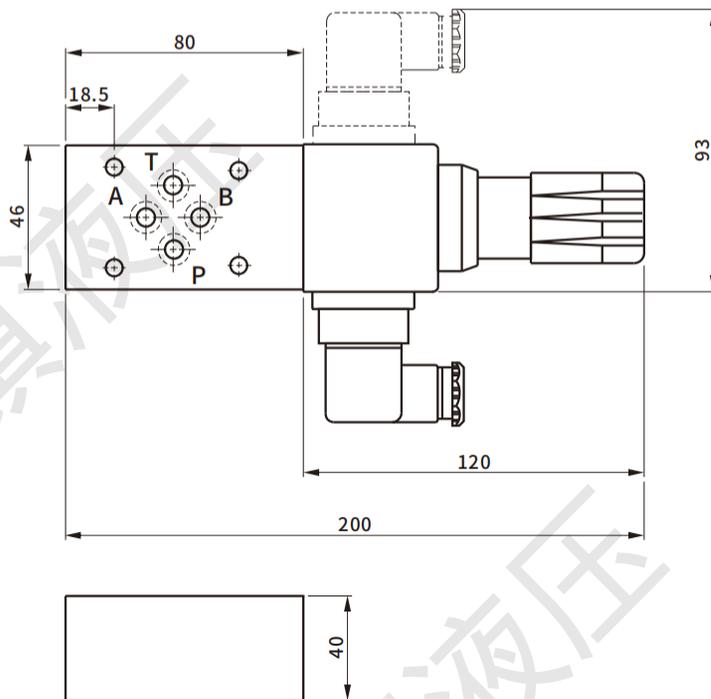
Installation surface: ISO-4401-AB-03-4-A



Units: mm

● **MPS-02B-K-**-20**

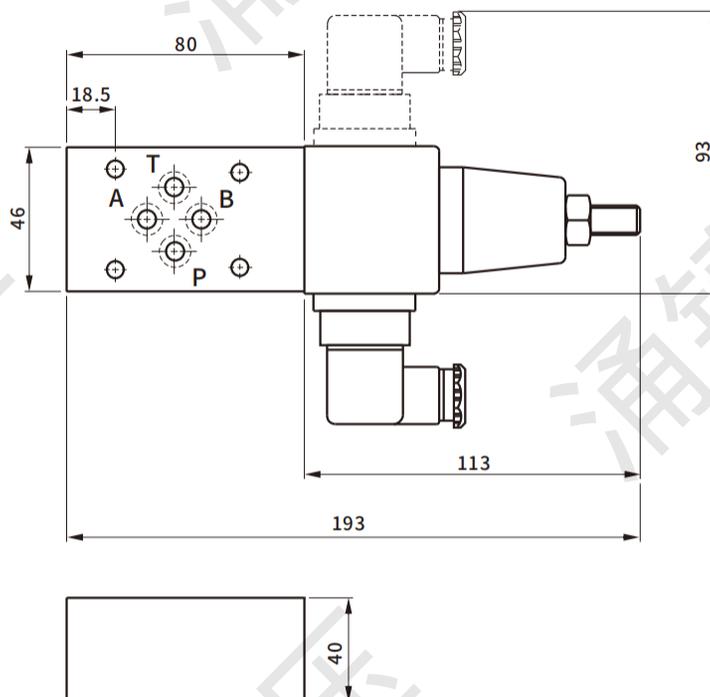
Installation surface: ISO-4401-AB-03-4-A



Modular
valve

● **MPS-02B-**-20**

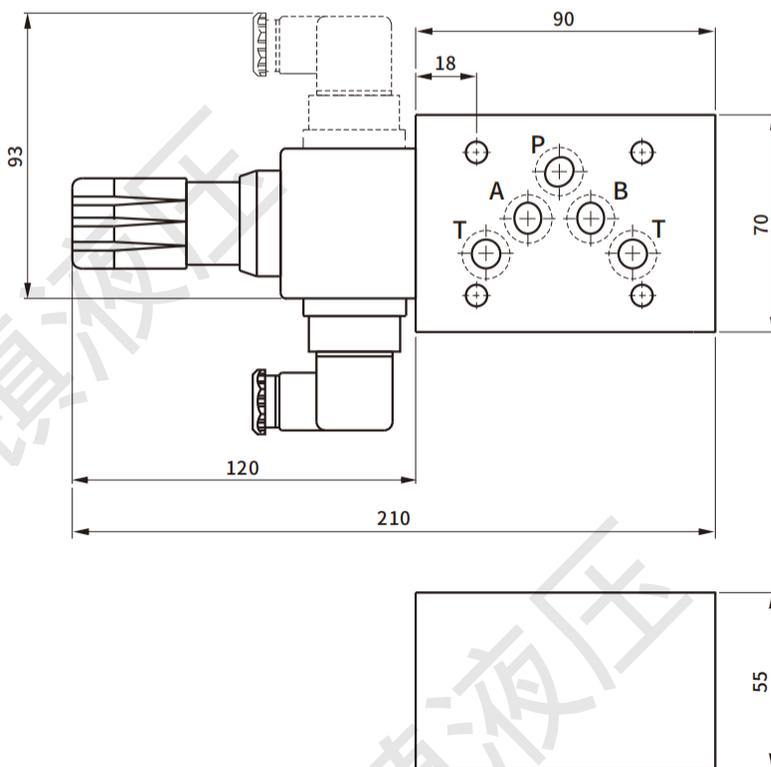
Installation surface: ISO-4401-AB-03-4-A



Units: mm

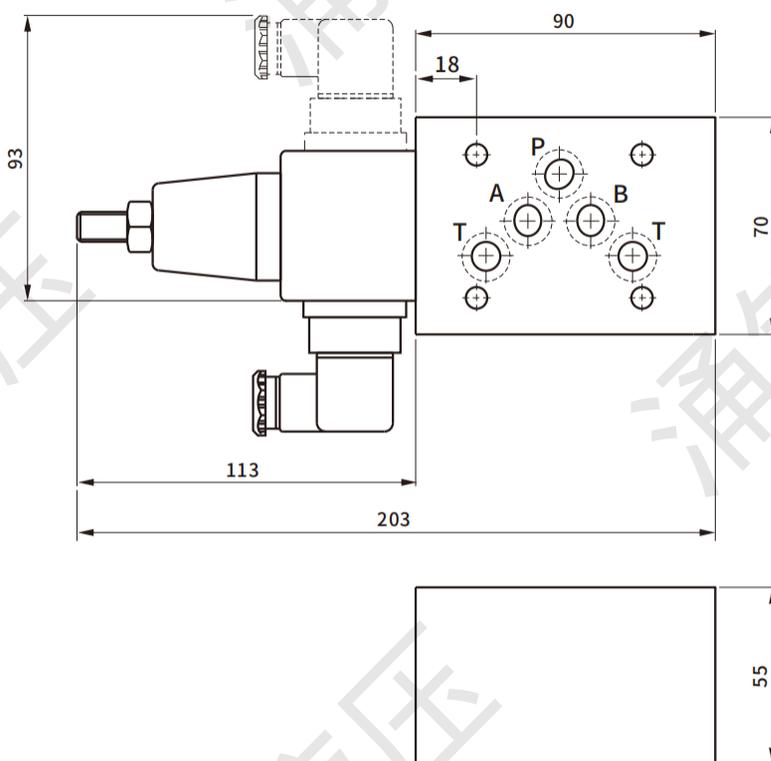
● **MPS-03A-K-**-20**

Installation surface: ISO-4401-AC-05-4-A



● **MPS-03A-**-20**

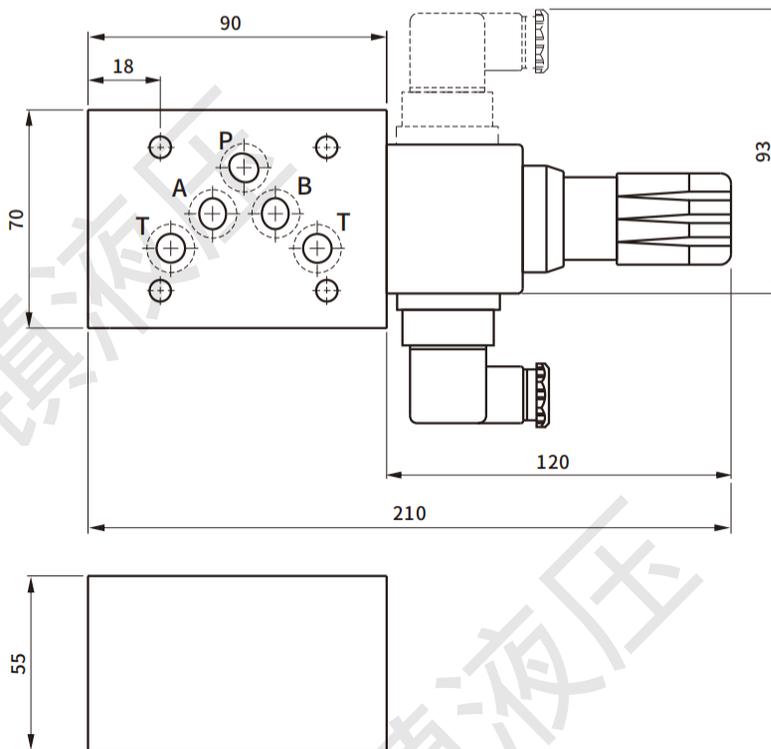
Installation surface: ISO-4401-AC-05-4-A



Units: mm

● **MPS-03B/P-K-**-20**

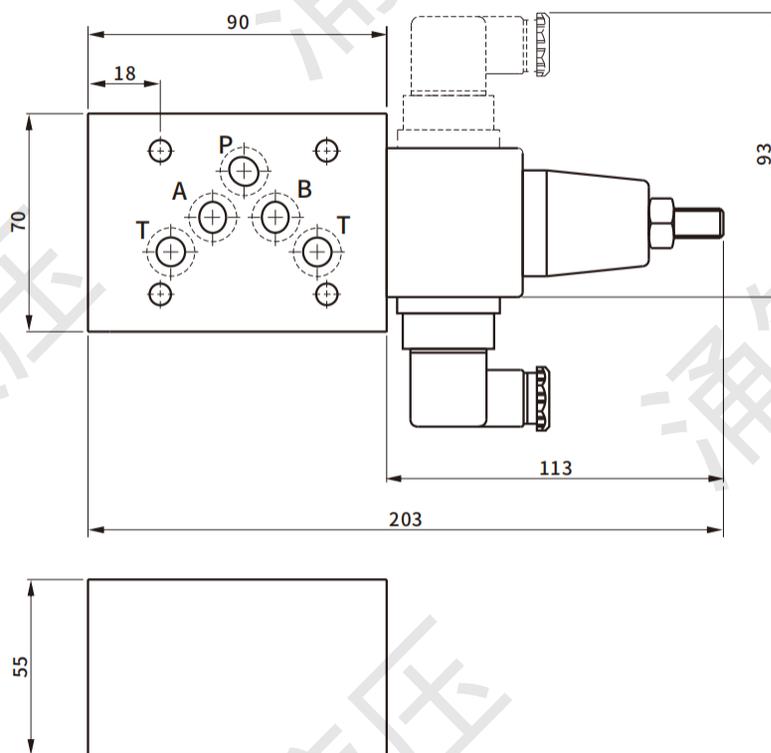
Installation surface: ISO-4401-AC-05-4-A



Modular valve

● **MPS-03B/P-**-20**

Installation surface: ISO-4401-AC-05-4-A



M Series

How to order

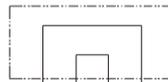
M 02 - N - 10

- Design code
10: Standard
20: Only for M03
- Function port
A: P→A, B→T
B: P→B, A→T
N: Totally disconnected
- Nominal size
02: NG 6
03: NG 10
- Modular valve cover plate

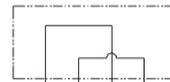


● Symbols

Units: mm



P T B A
M02-A-10



P T B A
M02-B-10



P T B A
M02-N-10



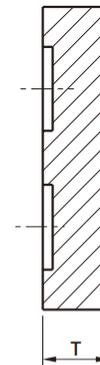
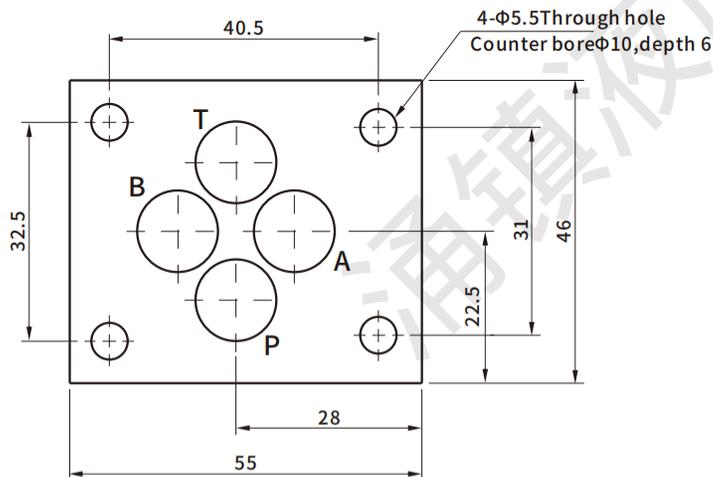
T B B P A T A
M03-N-20



T B B P A T A
M03-N-10

Dimensions

● M02 Modular valve cover plate



Model	T(mm)
M02-N-10	25
M02-A-10	25
M02-B-10	25

● M03 Modular valve cover plate

