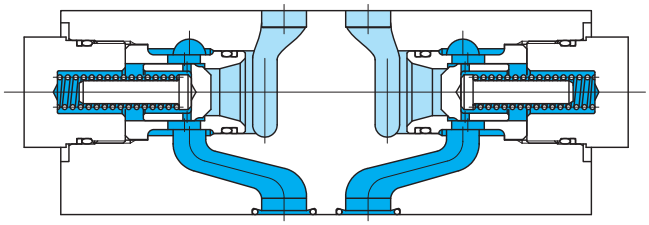
Check valves
TGMDC-5, 50 series

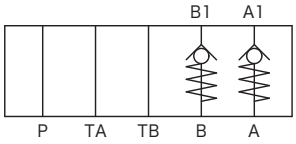


Functional Symbols

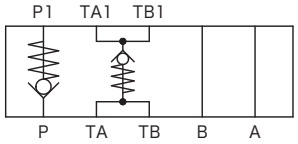
TGMDC-5-Y-P*

TGMDC-5-Y-A*

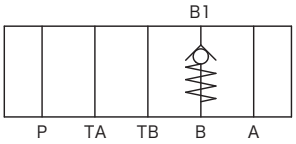
TGMDC-5-Y-A*-B*



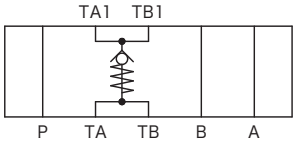
TGMDC-5-Y-P*-X-T*-50-S47



TGMDC-5-Y-B*



TGMDC-5-X-T*



Model Code

(F3)-TGMDC-5-*--(B*)-50** (all types except for S47)

1 | 2 | 3 | 4 | 5 6 | 7 8 | 9

(F3)-TGMDC-5-Y-P*-X-T*-50-S47 (S47)

1 | 2 | 3 | 4 | 5 6 | 4 | 7 8 | 9 | 10

1 Hydraulic fluid
- Omit: mineral oil based fluid, water-glycol based fluid
- F3: phosphate ester

2 Check valves

3 Mounting dimensions
- 5: ISO 4401-05

4 Flow direction
- X: free flow from actuator (for "T" model only)
- Y: free flow to actuator (for "P", "A", "B" models)

5 Control line
- P: P line (for 'Y' under item 4)
- T: T line (for 'X' under item 4)
- A: A line (for 'Y' under item 4)
- B: B line (for 'Y' under item 4)

6 Cracking pressure
- K: 0.1 MPa
- M: 0.25 MPa
- N: 0.5 MPa

7 Control line (for double check valve)
- B: B line
- T: T line (S47)

8 Cracking pressure (for double check valve)
- Same as 6

9 Design no.

10 Special feature

Specifications

- Max. Working Pressure: 31.5 MPa
- Max. Flow: 120 L/min

Characteristics Curve (at 20 mm²/s, 50°C) (typical examples)

■ Pressure Drop Characteristics

Overall valve pressure loss is the sum of the 4 curves of the applicable graph.

Fig. 1

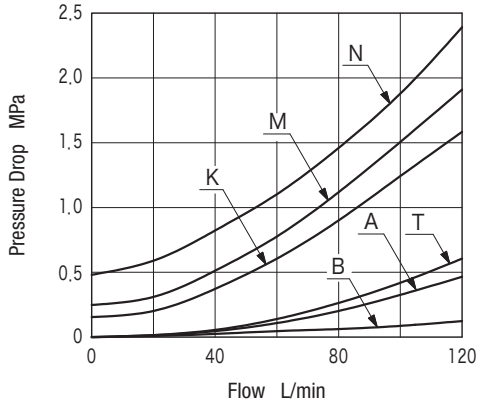


Fig. 2

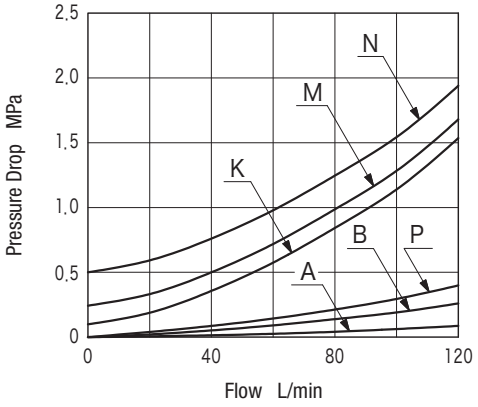


Fig. 3

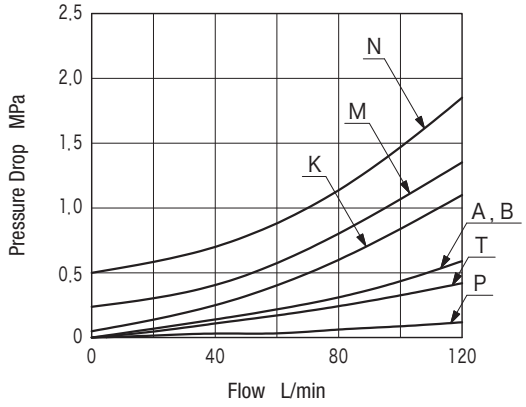
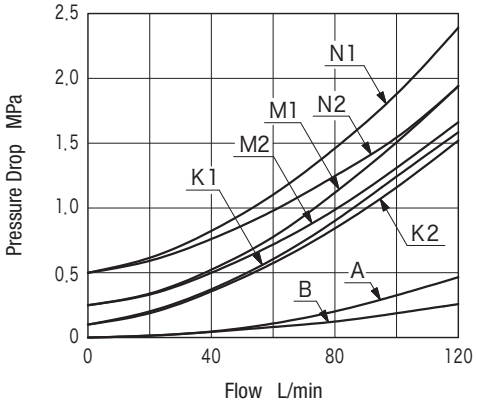


Fig. 4

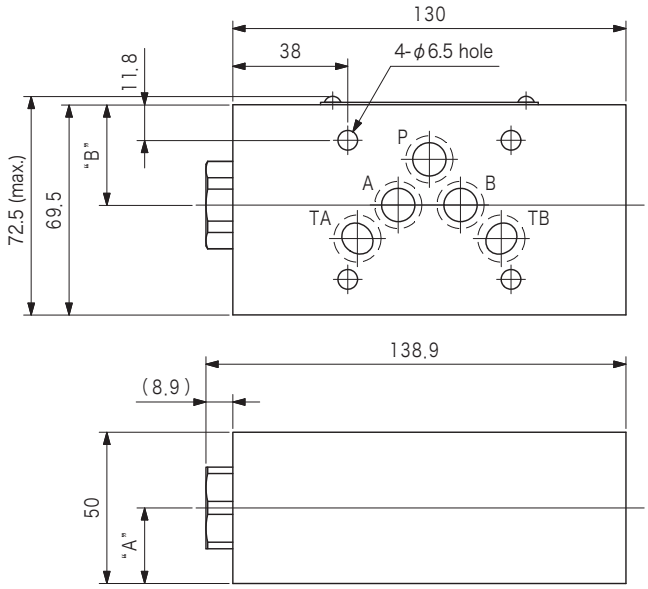


Model Code	Flow Port				Fig.
	P	T	A	B	
TGMDC-5-Y-PK-50 TGMDC-5-Y-PM-50 TGMDC-5-Y-PN-50	K M N	T	A	B	1
TGMDC-5-X-TK-50 TGMDC-5-X-TM-50 TGMDC-5-X-TN-50	P	K M N	A	B	2
TGMDC-5-Y-AK-50 TGMDC-5-Y-AM-50 TGMDC-5-Y-AN-50	P	T	K M N	B	3
TGMDC-5-Y-BK-50 TGMDC-5-Y-BM-50 TGMDC-5-Y-BN-50	P	T	A	K M N	3
TGMDC-5-Y-A∗-B∗-50	P	T	▲	▲	3
TGMDC-5-Y-P∗-X-T∗-50-S47	△	▽	A	B	4

▲: Select K, M, N curve in Fig. 3 according to cracking pressure.
△: One of the curves shown in Fig. 4—the K1, M1 or N1 curve—is selected depending on the cracking pressure. (Example: K1 with cracking pressure K)
▽: One of the curves shown in Fig. 4—the K2, M2 or N2 curve—is selected depending on the cracking pressure. (Example: K2 with cracking pressure K)

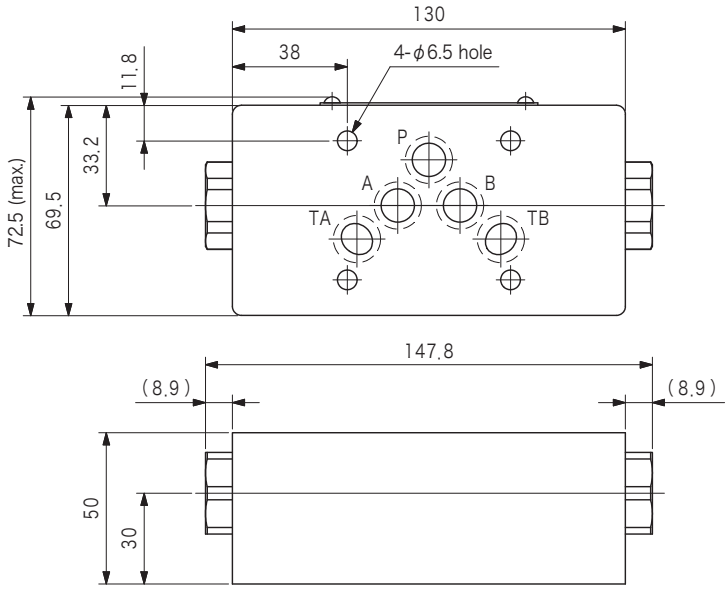
Dimensions

TGMDC−5−Y−P∗−50 (single type check valve) Weight: 2.9 kg
TGMDC−5−X−T∗−50 (single type check valve)

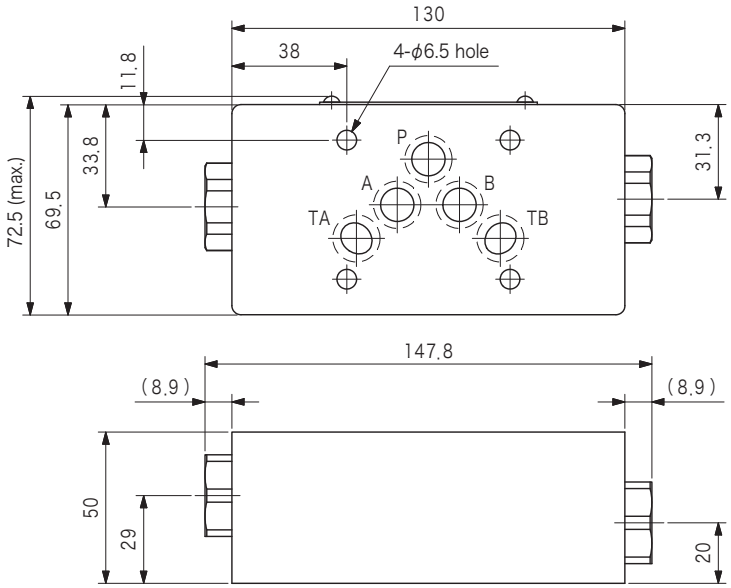


Model Code	"A"	"B"
TGMDC-5-Y-P∗-50	17	31.3
TGMDC-5-X-T∗-50	25	33.2

TGMDC−5−Y−A∗−(B∗)−50 (single and double type check valve) Weight: 2.9 kg
TGMDC−5−Y−B∗−50 (single type check valve)

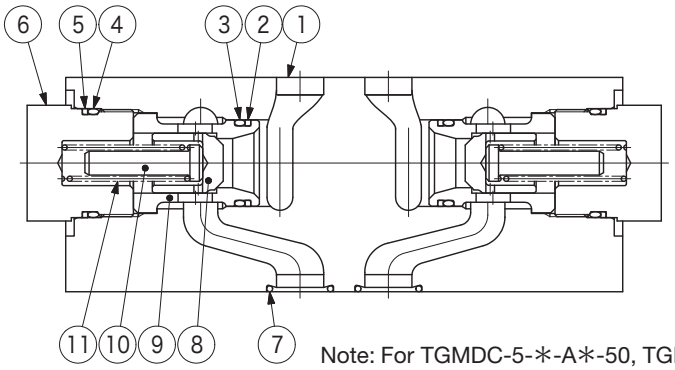


TGMDC−5−Y−P∗−X−T∗−50−S47 (double type check valve) Weight: 2.9 kg



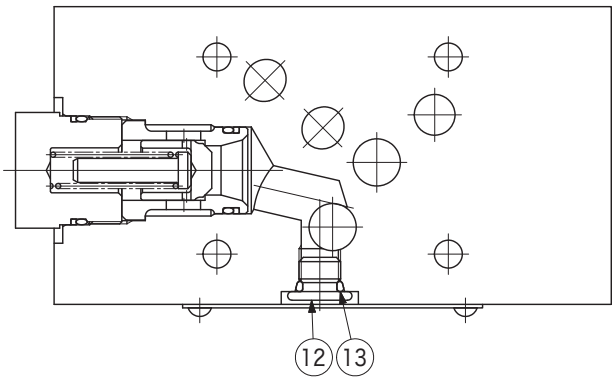
Construction

TGMDC-5-∗-A∗-50
TGMDC-5-∗-B∗-50
TGMDC-5-∗-A∗-B∗-50

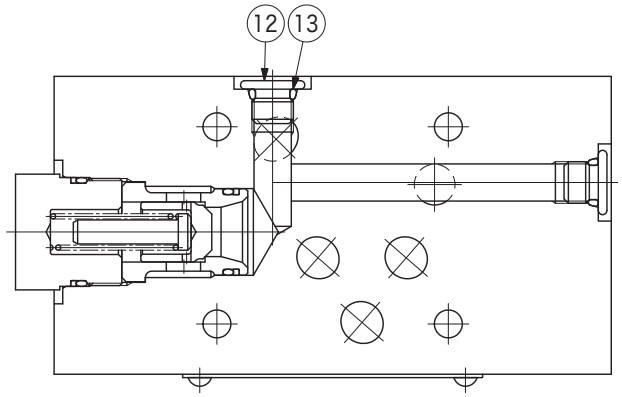


Note: For TGMDC-5-∗-A∗-50, TGMDC-5-∗-B∗-50 parts ②, ③, ⑧ ~ ⑪ for one side only.

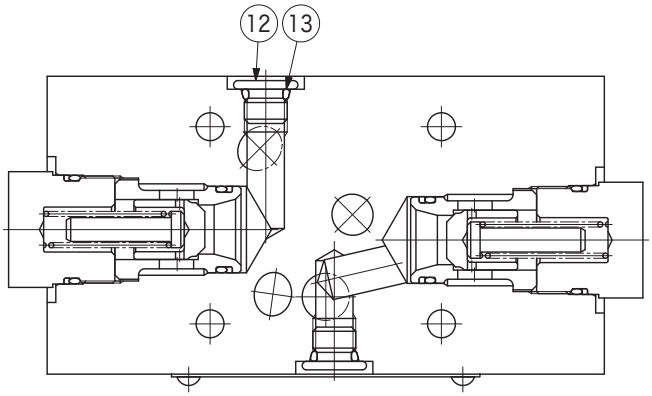
TGMDC-5-Y-P∗-50



TGMDC-5-X-T∗-50



TGMDC-5-Y-P∗-X-T∗
-50-S47



No.	Name	Part No.	Standard	Qty				
				Single Type			Double Type	
				P∗	T∗	A∗ B∗	A∗−B∗	S47
2	Backup ring	40025925	MS28774-017	1	1	1	2	2
3	O-ring	007901717	AS568-017 (NBR, Hs70)	1	1	1	2	2
4	O-ring	007902017	AS568-020 (NBR, Hs70)	1	1	2	2	2
5	Backup ring	40025055	———	1	1	2	2	2
7	O-ring	007901419	AS568-014 (NBR, Hs90)	5	5	5	5	5
13	O-ring	008000619	JIS B 2401-1B-P8	1	3	—	—	4

⑪ Spring

Code	Part No.
K	40025929
M	40025930
N	40025931