

Reduced wiring block manifold
Direct acting 3-port valve

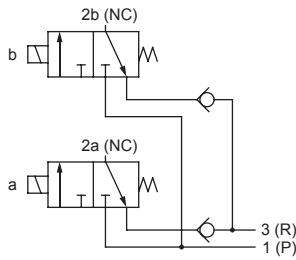
MN3Q Series

● Applicable cylinder bore: Ø4 to Ø16

RoHS

JIS symbol

● Dual 3 port valve integrated



JIS symbol

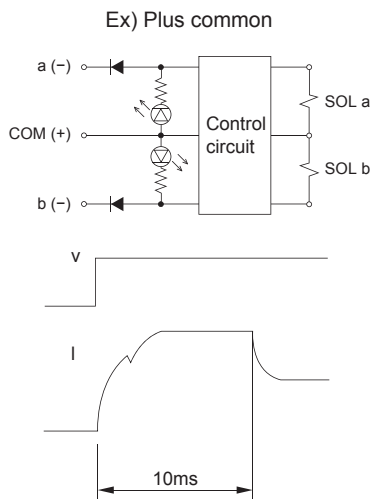
Main valve specifications

Descriptions	
Actuation/valve structure	Direct-acting poppet valve
Working fluid	Compressed air
Working pressure range	MPa 0.2 to 0.6
Effective sectional area	mm ² 0.55 (C: 0.11 dm ³ /sbar)
Response time	ms 5 or less
Ambient temperature/fluid temperature	°C 5 to 50
Protective structure	IP40 equivalent
Vibration/impact	m/s ² 50 or less/300 or less
Working environment	Not suitable for use in areas containing corrosive gas

Electric specifications

Descriptions	
Rated voltage	DCV 24 ± 10%
Starting current (0.01sec)	A 0.092
Holding current	A 0.025
Power consumption	W
Operation	2.2
Stand-by	0.6
Heat proof class	B
Surge protective circuit	w/Surge suppressor
Indicator	LED

Electric specifications

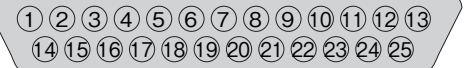


In this solenoid valve, the current limit circuit is integrated into the valve block, thus lowering the amount of electric current when the coil is in adhesive holding. There is a polarity, so please select a model based on the specifications.
Install this valve such that vibration and impact do not exceed specifications.

Wiring specifications

T30*
D-subconnector

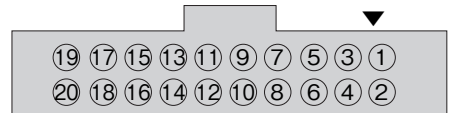
Connector pin
No.



Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Valve No.	1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	12a	COM
Pin No.	14	15	16	17	18	19	20	21	22	23	24	25	
Valve No.	1b	2b	3b	4b	5b	6b	7b	8b	9b	10b	11b	12b	

T51*
20-pin
Flat cable

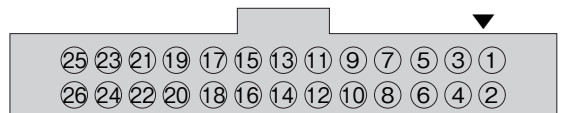
Connector pin
No.



Pin No.	19	17	15	13	11	9	7	5	3	1
Valve No.	COM	9a	8a	7a	6a	5a	4a	3a	2a	1a
Pin No.	20	18	16	14	12	10	8	6	4	2
Valve No.	COM	9b	8b	7b	6b	5b	4b	3b	2b	1b

T53*
26-pin
Flat cable

Connector pin
No.



Pin No.	25	23	21	19	17	15	13	11	9	7	5	3	1
Valve No.	COM	12a	11a	10a	9a	8a	7a	6a	5a	4a	3a	2a	1a
Pin No.	26	24	22	20	18	16	14	12	10	8	6	4	2
Valve No.	COM	12b	11b	10b	9b	8b	7b	6b	5b	4b	3b	2b	1b

The manifold stations are counted as station 1, station 2, station 3, etc. starting from the wiring block side. The counting direction on the left specifications is opposite that on the right specifications.

How to order

● Discrete valve block

N 3Q0 66 0 - C4 - M F — 3

● Block manifold

M N 3Q0 66 0 - C4 - M T53U PN - 8 - 3

A Mounting method

B Solenoid position

C Port size

D Manual override
Note 2

E Wiring method
Note 3

F Option

G Station number

⚠ Note on model no. selection

Note 1: Valve blocks are only compatible with 4, 8, and 12 stations. The supply/exhaust block is station 1. Not compatible with wiring block mix TX.

Note 2: With and without manual override types cannot be mixed.

Note 3: The D-subconnector and flat cable connector do not rotate, so please select according to the specifications.

Note 4: The manifold specifications assign one on each side, left and right.

Note 5: The standard type is plus common. Please select based on the specifications of the output device (e.g. PLC).

Note 6: A filter to prevent the entry of foreign matter is integrated into the P-port of the supply/exhaust block.

Note 7: Depends on wiring method used.

Note 8: The silencer (SLW-H6) cannot be assembled in manifolds with manual overrides with a selected port size 6.

Note 9: In the case of a dual-side cable TX, the atmospheric release type cannot be selected. Also, in the case of an atmospheric release type supply/exhaust block, please select atmospheric release end blocks.

Symbol	Descriptions	MF	Discrete component
A Mounting method			
N	DIN rail mounting	●	
T	Direct mounting (limited to 4/8/12 stations) (Note 1)	●	
B Solenoid position			
66	Direct-acting 3-port NC valve Double mounting	●	●
C Port size			
C18	Ø1.8 push-in fitting - side (Compatible tube UP-9402, EH-5802)	●	●
CL18	Ø1.8 push-in fitting - up (Compatible tube UP-9402, EH-5802)	●	●
CD18	Ø1.8 push-in fitting - down (Compatible tube UP-9402, EH-5802)	●	●
C3	Ø3 push-in fitting - side	●	●
CL3	Ø3 push-in fitting - up	●	●
CD3	Ø3 push-in fitting - down	●	●
C4	Ø4 push-in fitting - side	●	●
CL4	Ø4 push-in fitting - up	●	●
CD4	Ø4 push-in fitting - down	●	●
M5	M5 female thread (w/non-rotating)	●	●
CX	Mixed push-in fitting	●	
D Manual override			
Blank	w/o Manual override	●	●
M	Non-locking manual override	●	●
E Wiring method			
T30	25-pin D-subconnector Horizontal type left specification (lock screw: M2.6) 12 stations	●	
T30R	25-pin D-subconnector Horizontal type right specification (lock screw: M2.6) 12 stations	●	
T30U	25-pin D-subconnector Upright type left specification (lock screw: M2.6) 12 stations	●	
T30UR	25-pin D-subconnector Upright type right specification (lock screw: M2.6) 12 stations	●	
T51	20-pin flat cable connector Horizontal type left specification 9 stations	●	
T51R	20-pin flat cable connector Horizontal type right specification 9 stations	●	
T51U	20-pin flat cable connector Upright type left specification 9 stations	●	
T51UR	20-pin flat cable connector Upright type right specification 9 stations	●	
T53	26-pin flat cable connector Horizontal type left specification 12 stations	●	
T53R	26-pin flat cable connector Horizontal type right specification 12 stations	●	
T53U	26-pin flat cable connector Upright type left specification 12 stations	●	
T53UR	26-pin flat cable connector Upright type right specification 12 stations	●	
TX	Wiring block mix (Note 4)	●	
Blank	Reduced wiring valve block		●
F Option			
Blank	None	●	●
P	Minus common (Note 5)	●	●
N	w/o Exhaust check valve	●	●
F	Integrated output port filter (Note 6)	●	●
G Station number			
1	1 station	●	
to	to		
24	24 stations (Note 7)		

Peripheral block model no. (This information is for full manifold set orders. If ordering only parts, please contact CKD.)

● Discrete supply/exhaust block

N3Q0-Q-U 6L X

A Piping locations

B Port size

C Exhaust

Symbol	Descriptions
A Piping locations	
Blank	Output port side (Note 8)
U	Top side
B Port size	
6	P/R port: Ø6 push-in fitting (straight type)
6L	P/R port: Ø6 push-in fitting (elbow type)
6D	P/R port: Ø6 push-in fitting (down-facing elbow type)
C Exhaust	
Blank	Common exhaust
X	Atmospheric release (exhaust through end block) (Note 9)

● Discrete end block

N3Q0-EX L

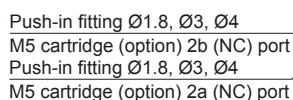
A Type

B Installation position

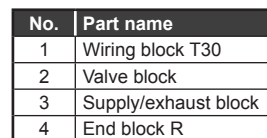
Symbol	Descriptions
A Type	
E	Common exhaust
EX	Atmospheric release (w/silencer)
B Installation position	
L	Left-side mounting
R	Right-side mounting

Dimensions

- DIN rail mount (w/ manual override)
MN3Q0660-*-MT53UR*-*-3



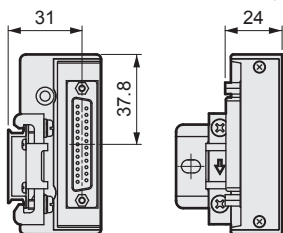
- Direct mount (w/o manual override)
MT3Q0660-*-T30-*-3



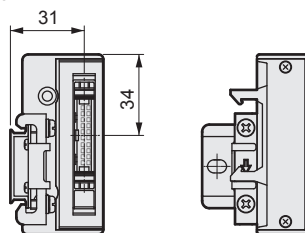
Dimensions

Wiring block

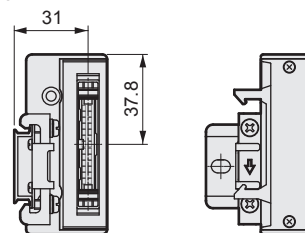
● D-subconnector T30 (R)



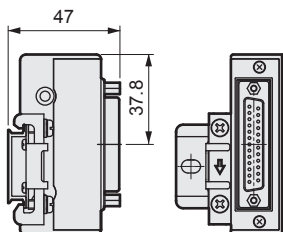
● 20-pin flat cable connector T51 (R)



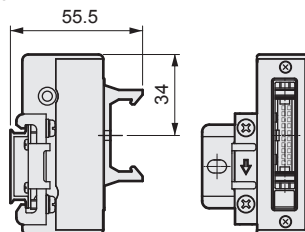
● 26-pin flat cable connector T53 (R)



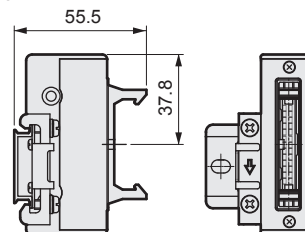
● D-subconnector T30U (R)



● 20-pin flat cable connector T51U (R)



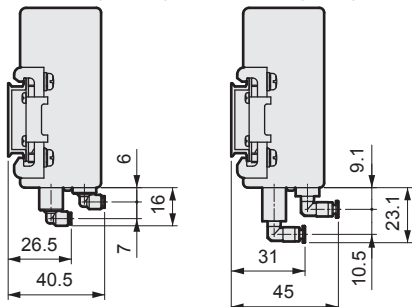
● 26-pin flat cable connector T53U (R)



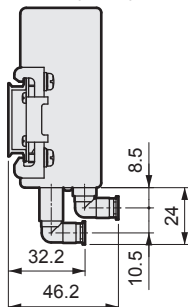
Valve block

● Push-in fitting L (upward)

- Ø1.8 (CL18)
- Ø3 (CL3)

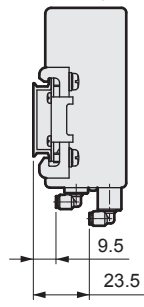


- Ø4 (CL4)

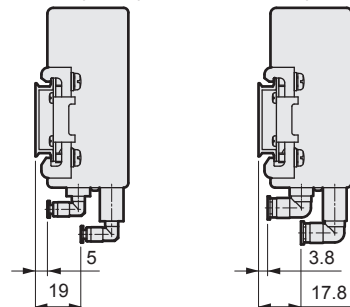


● Push-in fitting L (down-facing)

- Ø1.8 (CD18)
- Ø3 (CD3)



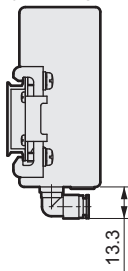
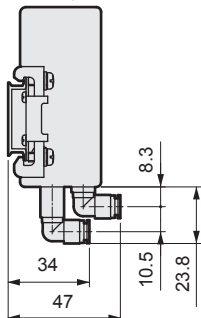
- Ø4 (CD4)



Supply/exhaust block

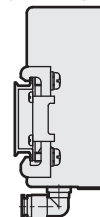
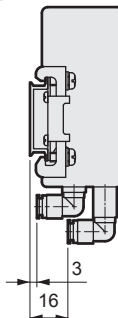
● Ø6 push-in fitting Output port side Elbow type

- 6L (common exhaust)
- 6LX (atmospheric release)



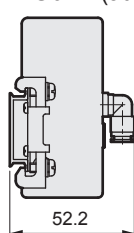
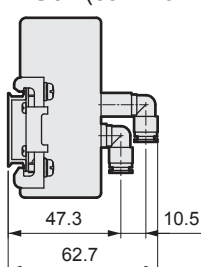
● Ø6 push-in fitting Output port side Elbow type Down-facing

- 6D (common exhaust)
- 6DX (atmospheric release)



● Ø6 push-in fitting Top side Elbow type

- U6L (common exhaust)
- U6LX (atmospheric release)



● Ø6 push-in fitting Top side Elbow type Rear-facing

- U6D (common exhaust)

