

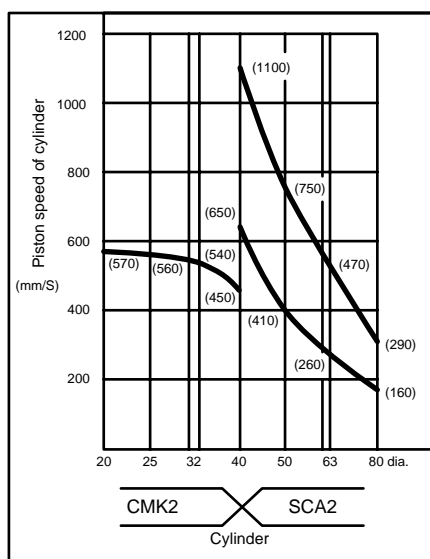
4L2-4/LMFO Series

Technical data 1) Pneumatics system selection guide

Pneumatic system selection guide

Piston speed of air cylinder is found according to combination of 4L2-4 series and piping system.

Vertically installing a cylinder with rod top, the piston speed is found with dividing stroke length by beginning to end time of piston rod movement. When load factor 50%, piston speed of cylinder should be half.



Clean air system components

	Model	Port size	Max. flow rate m ³ /min (ANR) Note 1
F/R/L combination	K60570-1C-GB	Rc ¹ / ₈ (6A)	0.2
	K60570-2C-GB	Rc ¹ / ₄ (8A)	0.3
	K61440E-2C-EGB	Rc ¹ / ₄ (8A)	1.3
	K61440E-3C-EGB	Rc ³ / ₈ (10A)	1.5
	K61440E-2C-EGBJ	Rc ¹ / ₄ (8A)	1.3
	K61440E-3C-EGBJ	Rc ³ / ₈ (10A)	1.5
	C3000-8	Rc ¹ / ₄ (8A)	1.3
	C3000-10	Rc ³ / ₈ (10A)	1.8
FR Unit	W3000-8	Rc ¹ / ₄ (8A)	2
	W3000-10	Rc ³ / ₈ (10A)	2.4

Note 1 : FRL kit, FR unit, primary pressure 0.7MPa, set pressure 0.5MPa, -0.1MPa

- When selection, refer to the table above to keep enough flow rate according to required flow rate.

Piping system

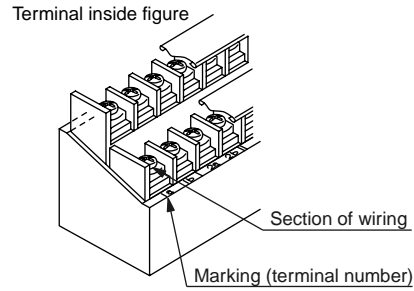
System No.	Flow control valve	Silencer	Pipe Refer to the value in () about pipe length between valve and cylinder.	Composite effective sectional area of system	Max. flow rate m ³ /min (ANR) P = 0.5MPa
B3	SC1-6	SLW-6A	6 dia. X 4 dia. nylon tube (1m)	3.9mm ²	0.26
B4	SC1-8	SLW-8A	10 dia. X 7.2 dia. nylon tube (1m)	6.5mm ²	0.43

Note 1 : The circuit when driving a cylinder is listed on pneumatics system selection guide.

Common terminal type : Wiring method T0

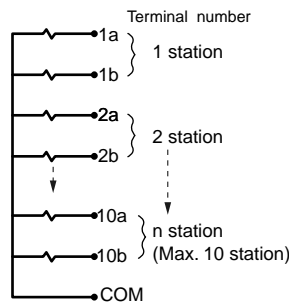
T0 terminal type

- For common gland type, initially, common wire is internally wired. Compatibility between terminal number (printed on gland cover) and manifold solenoid is as following table.
- Station No. is allocated from wiring block side.



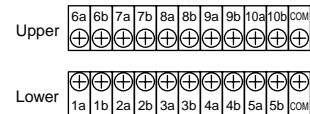
- Use cable conformable with JIS C3312 (600V vinyl insulation cable) and core wire cross-section areas 0.75mm or 1.25mm.
 - For end of cable, use crimp terminal to prevent contact defective and coming off.
- (E.g : Please use 1.25-3.7 1.25-M3 1.25-M4 with I.D. M3.5 and O.D. 7 or less.)

Wiring diagram in terminal



1. Max. station number is 10 station.
2. Either -COM or +COM specifications are available.

Terminal layout drawing (TOP VIEW)

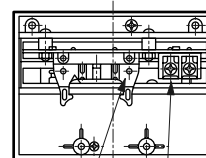


Common connector type : Wiring method T5

T5 connector type

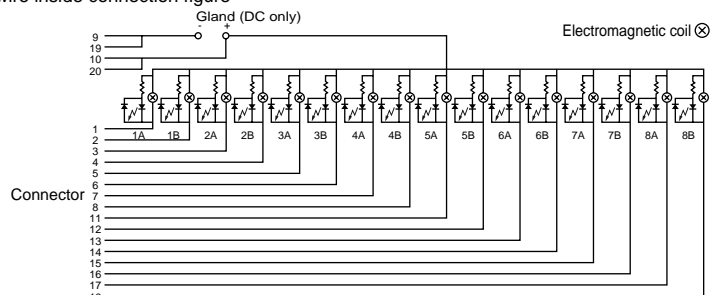
- Wiring method T50 connector conformable with MIL standards (MIL-C-83503). Easy wiring is realized with flat cable pressure welding. Pin No. index may differ depending on connector maker but allocation of function is same. When connecting the cable, match the set mark (▼). For either plug or socket, match the set mark (▼).
- Station No. is allocated from wiring block side.

Terminal inside figure

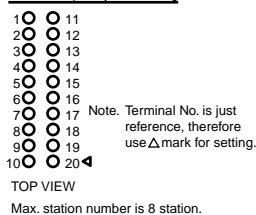


Connector OMRON connector Type XG4A-2031

Terminal wire inside connection figure



Connector pin layout drawing



[The socket, type XG4M-2030 OMRON, should be used]

Connector specifications

Withstand voltage	AC250V for one minute
Current consumption	75mA X ON point X supply current to P/C
Cable length	Differs depending on wire diameter. Between P/C and this unit [reference value] 3m or less
Ambient temperature	0 to 55 °C
Ambient humidity	35 to 85%RH

4SA/B0

4SA/B1

4GA/B

MN4GA/B

4GA/B (master)

MN3S0/ MN4S0

4TB

4L2-4/ LMFO

4KA/B

4F

PV5/ CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/ NVP

4F**0E

HMV/ HSV

Uniwire system

SKH

PCD/ FS/FD

5 port pilot operated valve