

Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4

4M

3V Manifold

4V Manifold

Coil

3A100

3A200

3A300

4A100

4A200

4A300

4A400

3A Manifold

4A Manifold

VF3000

VF5000

SY

SY Manifold

MVSD-180

MVSC-220

MVSC-260

MVSC-300

MVSC-460

HB10

3H

4H

TSV

3R

4R

HSV

4HV/4HVL

HV

K²⁴₃₄

MOV

JM

MSV

XQ²³₂₅

3F/3FM

4F

FV

K²³₂₅

ASC

RE

QE

ST

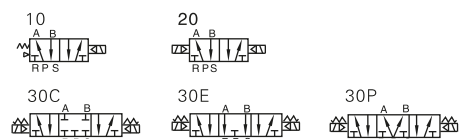
KA

XQ

AQ



Symbol



Product feature

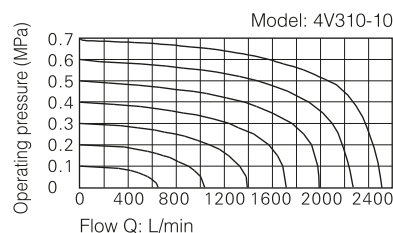
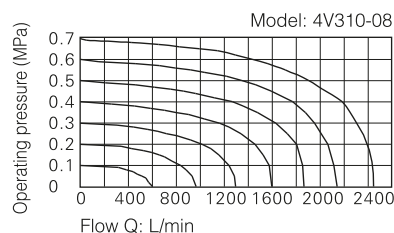
1. Pilot-oriented mode: Internal pilot or external pilot.
2. Structure in sliding column mode: good tightness and sensitive reaction.
3. Three position solenoid valves have three kinds of central function for your choice.
4. Double control solenoid valves have memory function.
5. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
6. No need to add oil for lubrication.
7. It is available to form integrated valve group with the base to save installation space.
8. Affiliated manual devices are equipped to facilitate installation and debugging.
9. Several standard voltage grades are optional.

Ordering code

4V	3	10
Model	Valve type	Port size
4V Solenoid valve (5/2, 5/3 way)	10 Single solenoid 5/2 way	08 1/4"
	20 Double solenoid 5/2 way	10 3/8"
Code	30C Double solenoid 5/3 way closed center	
3 300 Series	30E Double solenoid 5/3 way exhaust center	
	30P Double solenoid 5/3 way pressure center	

10	A				W
Voltage	Electrical entry	Thread type	Pilot type		
A AC220V	Blank Terminal	Blank PT	Blank: Internal pilot		
B DC24V	I Grommet	G G			
C AC110V		T NPT			
E AC24V					
F DC12V					

Flow chart



Specifications

Model	4V310-08 4V320-08	4V330C-08 4V330E-08 4V330P-08	4V310-10 4V320-10	4V330C-10 4V330E-10 4V330P-10
Fluid	Air (to be filtered by 40μm filter element)			
Acting	Internal pilot or external pilot			
Port size ①	In=Out=Exhaust=1/4"		In=Out=3/8" Exhaust=1/4"	
Orifice size	25.0mm ² (Cv=1.40)	18.0mm ² (Cv=1.00)	30.0mm ² (Cv=1.68)	18.0mm ² (Cv=1.00)
Valve type	5 port 2 position	5 port 3 position	5 port 2 position	5 port 3 position
Operating pressure	0.15~0.8MPa(21~114psi)			
Proof pressure	1.2MPa(175psi)			
Temperature (°C)	-20~70			
Material of body	Aluminum alloy			
Lubrication ②	Not required			
Max. frequency ③	4 cycle/sec	3 cycle/sec	4 cycle/sec	3 cycle/sec
Weight(g)	4V310-08:310 4V320-08:400	450	4V310-10:310 4V320-10:400	450

① PT thread, G thread and NPT thread are available.

② Once lubricated air is used, continue with same medium to optimise valve life span. Lubricants like ISO VG32 or equivalent are recommended.

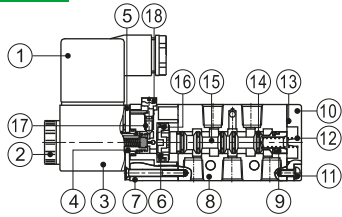
③ The maximum actuation frequency is in the no-load state.

Coil specifications

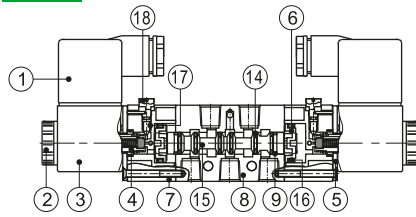
Item	Specifications				
Standard voltage	AC220V	AC110V	AC24V	DC24V	DC12V
Scope of voltage	AC: ±15% DC: ±10%				
Power consumption	4.5VA	4.5VA	5.0VA	3.0W	3.0W
Protection	IP65(DIN40050)				
Temperature classification	B Class				
Electrical entry	Terminal, Grommet				
Activating time	0.05 sec and below				

Inner structure

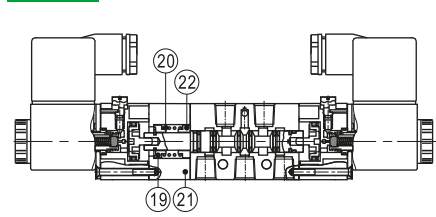
4V310



4V320



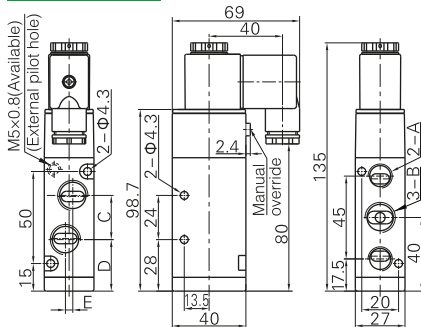
4V330C



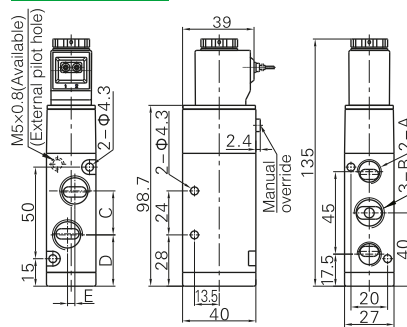
No.	Item	No.	Item	No.	Item	No.	Item	No.	Item	No.	Item
1	Connector	5	Fixed plate	9	Wear ring	13	Bottom cover gasket	17	Reset spring	21	Side cover
2	Coil net	6	Piston	10	Bottom cover	14	Spool O-ring	18	Manual reset	22	Spring holder
3	Coil	7	Pilot kit	11	Fixed screw	15	Spool	19	Spring holder		
4	Armature	8	Body	12	Spool spring	16	Piston O-ring	20	Return spring		

Dimensions

4V310(Terminal)

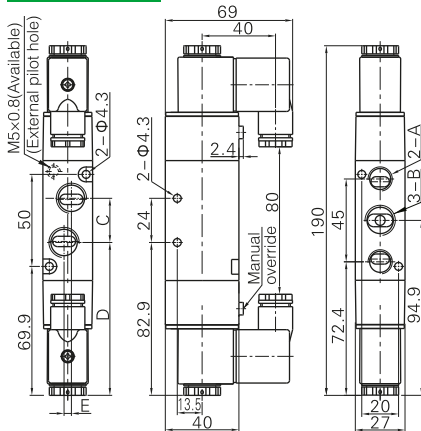


4V310(Grommet)

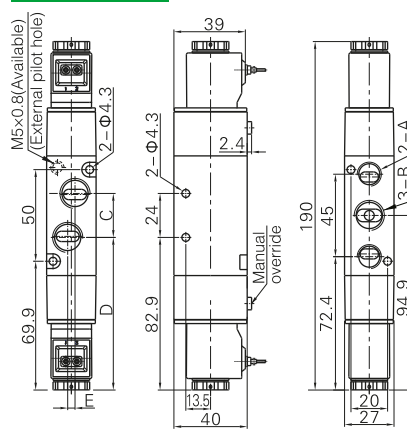


Model\Item	A	B	C	D	E
4V310-08	1/4"	1/4"	22	29	0
4V310-10	1/4"	3/8"	24	28	4

4V320(Terminal)

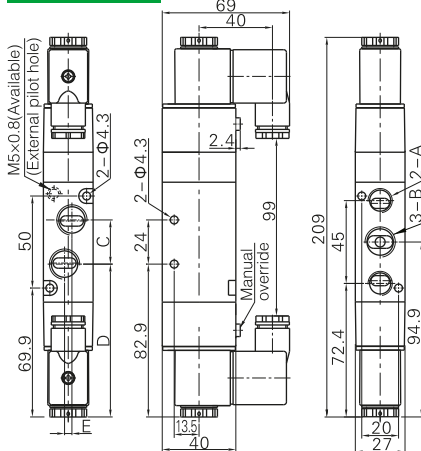


4V320(Grommet)

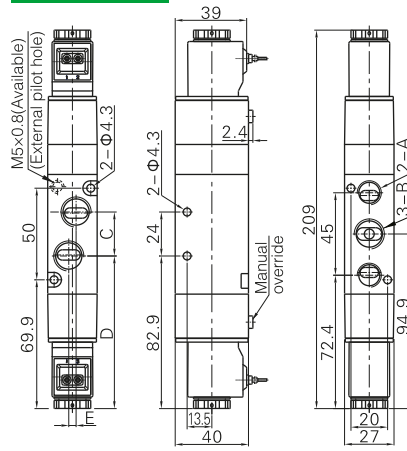


Model\Item	A	B	C	D	E
4V320-06	1/4"	1/4"	22	83.9	0
4V320-08	1/4"	3/8"	24	82.9	4

4V330(Terminal)



4V330(Grommet)



Model\Item	A	B	C	D	E
4V330-06	1/4"	1/4"	22	83.9	0
4V330-08	1/4"	3/8"	24	82.9	4

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SY Manifold
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MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
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4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
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