

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

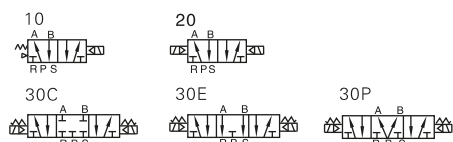
KA

XQ

AQ



Symbol



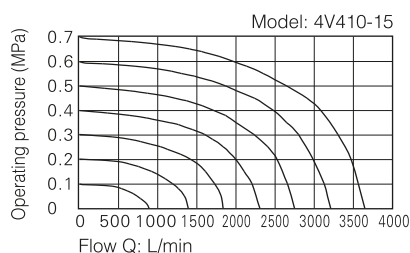
Product feature

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		4	10
Model		Valve type	
4V	Solenoid valve (5/2, 5/3 way)	10	Single solenoid 5/2 way
		20	Double solenoid 5/2 way
		30C	Double solenoid 5/3 way closed center
		30E	Double solenoid 5/3 way exhaust center
		30P	Double solenoid 5/3 way pressure center
Code		Port size	
4	400 Series	15	1/2"

Flow chart



Specifications

Model	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
Fluid	Air (to be filtered by 40μm filter element)				
Acting	Internal pilot or external pilot				
Port size ①	In=Out=Exhaust=1/2"				
Orifice size	50.0mm ² (Cv=2.79)		30.0mm ² (Cv=1.68)		
Valve type	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	3 cycle/sec				
Weight(g)	590	720	770		

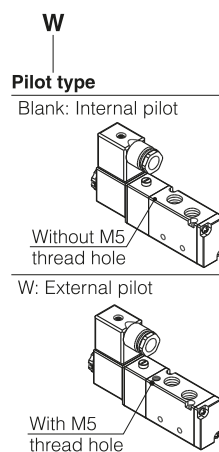
① PT thread, G thread and NPT thread are available.

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				

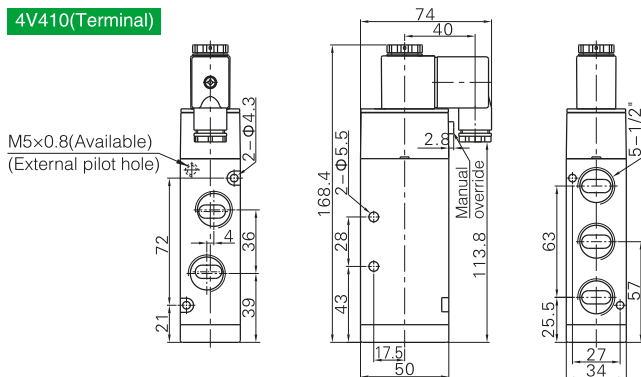


Inner structure

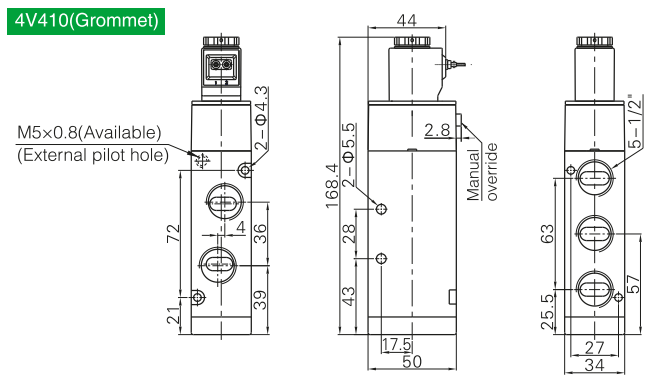
4V410				4V420				4V430C			
No.	Item	No.	Item	No.	Item	No.	Item	No.	Item	No.	Item
1	Connector	5	Fixed plate	9	Wear ring	13	Bottom cover gasket	17	Reset spring	21	Side cover
2	Coil net	6	Piston	10	Bottom cover	14	Spool O-ring	18	Manual reset	22	Spring holder
3	Coil	7	Pilot kit	11	Fixed screw	15	Spool	19	Spring holder		
4	Armature	8	Body	12	Spool spring	16	Piston O-ring	20	Return spring		

Dimensions

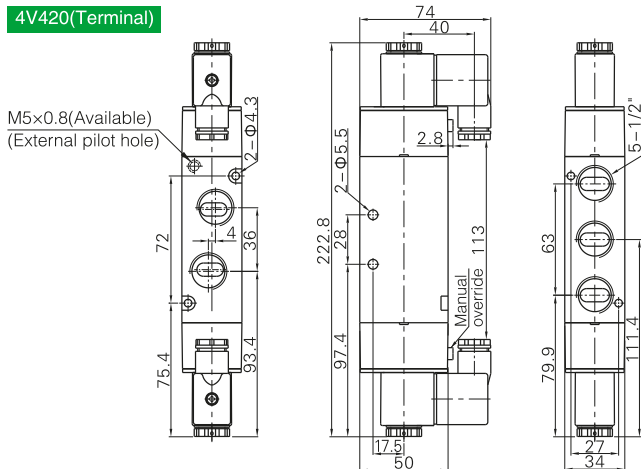
4V410(Terminal)



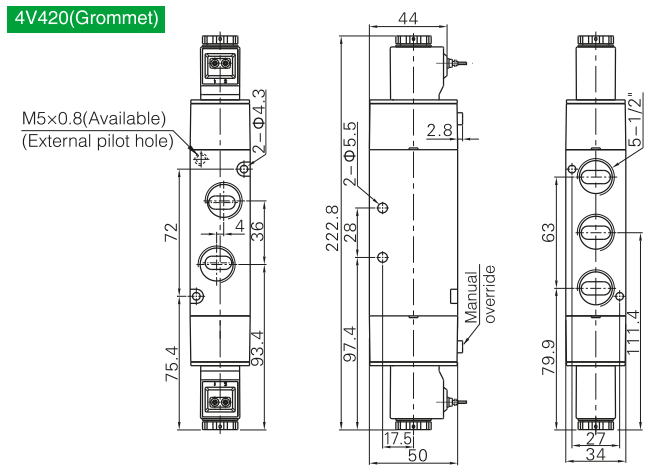
4V410(Grommet)



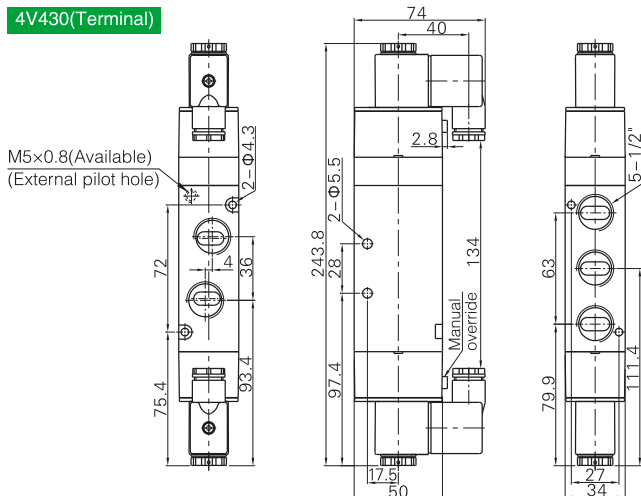
4V420(Terminal)



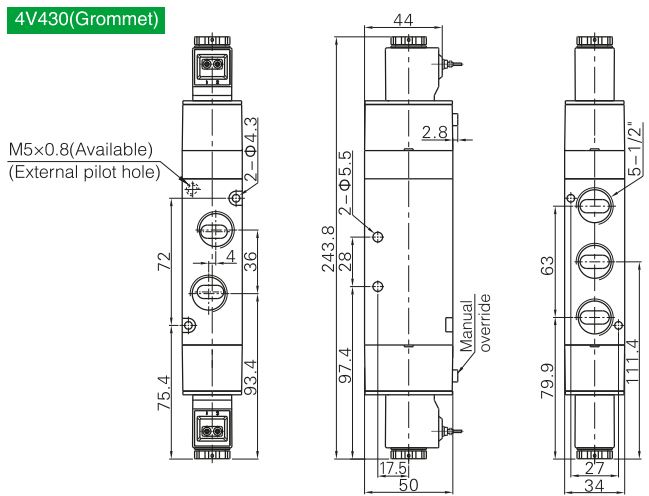
4V420(Grommet)



4V430(Terminal)



4V430(Grommet)



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
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
RE
QE
ST
KA
XQ
AQ