

SOLENOID VALVES 3/2, 5/2, 5/3 WAY



Solenoid 3/2 Way, Solenoid Spring

Solenoid 3/2 Way, Solenoid Solenoid

Solenoid 5/2 Way, Solenoid Spring

Solenoid 5/2 Way, Solenoid Solenoid

Solenoid 5/3 Way, Solenoid Spring
Solenoid

Namur Solenoid 5/2 Way, Solenoid Spring

Namur Solenoid 5/2 Way, Solenoid
Solenoid

Installation & Application Data

Before installing, be sure the valve hasn't been damaged in transit.

Use clean lubricated air filtered to 40µm.

Be aware of the flow direction and port size.

Please note whether the installation conditions meet the technical requirements (such as voltage, actuation frequency, working pressure & temperature) before installing the valve.

Notice the flow direction of air during installation, P is the air input, A (B) is the outlet port & R (S) is the exhaust port.

Avoid freezing temperature and vibration.

Before use ensure fittings and tubes are clean.

Use PTFE tape correctly when connecting fittings.

To stop the ingress of dust use silencers in the exhaust ports.

After installation use the manual override to test the valve first.



SOLENOID VALVE (5/2 & 5/3 WAY) DKV200 SERIES



Specification

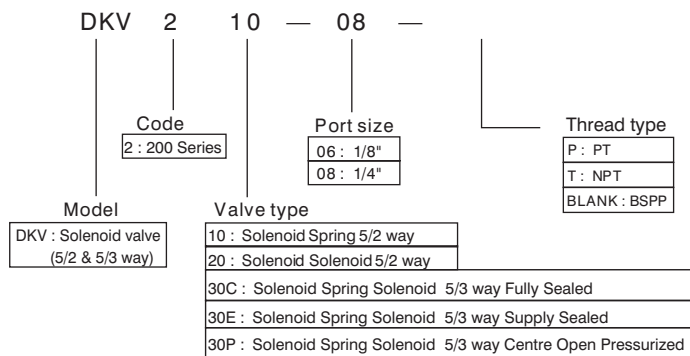
Model	DKV210-06 DKV220-06	DKV230C-06 DKV230E-06 DKV230P-06	DKV210-08 DKV220-08	DKV230C-08 DKV230E-08 DKV230P-08
Fluid	Air (to be filtered by 40µm filter element)			
Acting	Internal Piloted			
Port	1/8"		Inlet & Outlet 1/4" Exhaust 1/8"	
Orifice	14.0mm ² (Cv=0.78)	12.0mm ² (Cv=0.67)	16.0mm ² (Cv=0.89)	12.0mm ² (Cv=0.67)
Valve Type	5/2	5/3	5/2	5/3
Operating Pressure	0.15–0.8MPa (21–114psi)			
Proof Pressure	1.5MPa (215psi)			
Temperature	-20 to +70°C			
Material of Body	Aluminum Alloy			
Lubrication	Not required			
Max. frequency	5 cycle/sec	3 cycle/sec	5 cycle/sec	3 cycle/sec
Weight	DKV210-06 220g DKV220-06 320g	360g	DKV210-08 220g DKV220-08 320g	360g



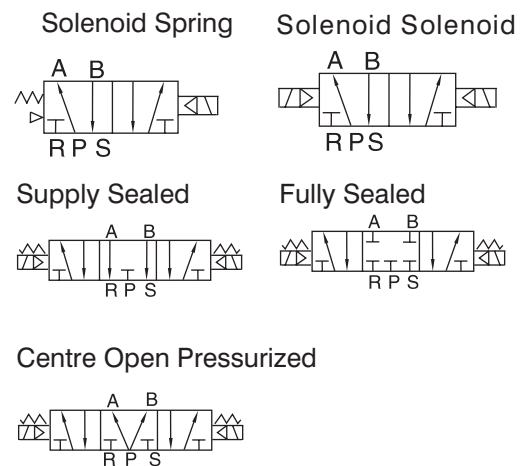
G threads as standard. PT & NPT threads are available on request.

If using lubricants the practice must remain constant for the life of the valve. Lubricants like ISO VG32 or the equivalent are recommended.

Ordering Code

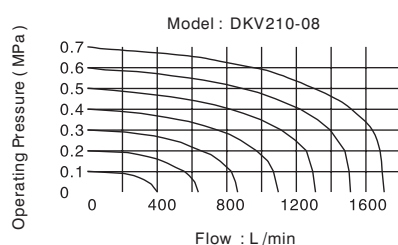
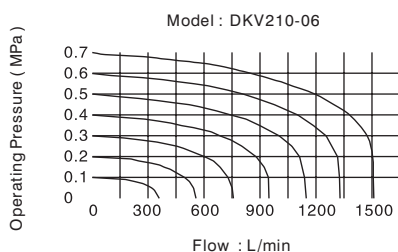


Symbol



Please refer to Page 15 for manifold specification and the order way.

Flow Charts



Product Features

Pilot-oriented mode has optional internal or external pilots.

Sliding spool has tight tolerances.

Three position valves have three different central functions.

Double control solenoid valves have memory function.

Internal orifice adopts special processing technology giving low friction and long service life.

Lubrication is not necessary but once oil is introduced to the valve it must be continued.

Manifold bases are available for 5/2 valves to save installation space.

Valves have manual override for test purposes.

Several standard voltages are available.

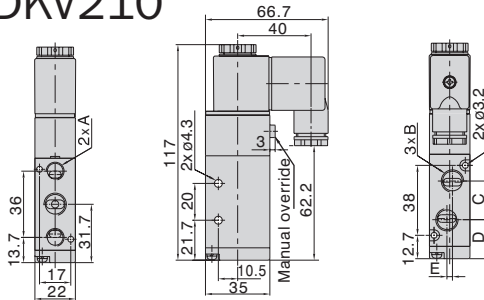
SOLENOID VALVE (5/2 & 5/3 WAY)

DKV200 SERIES

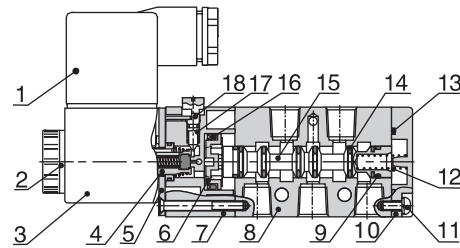
Dimensions

Inner Structure

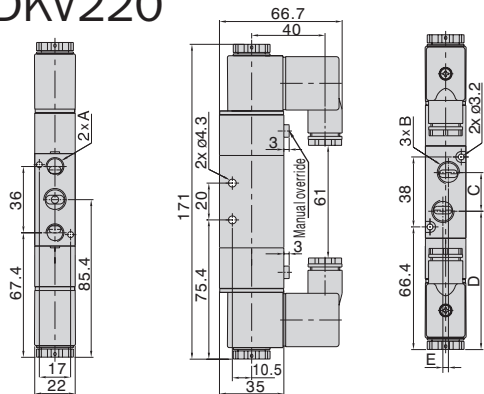
DKV210



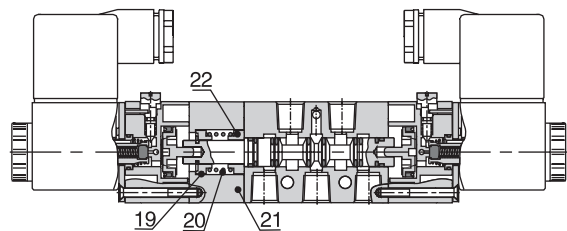
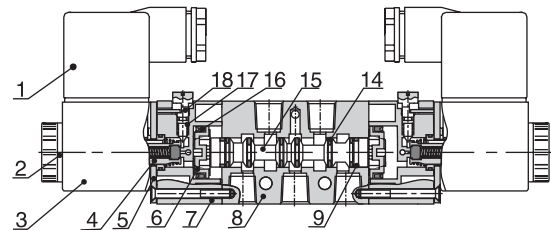
Model	A	B	C	D	E
DKV210-06	1/8"	1/8"	18	22.7	0
DKV210-08	1/8"	1/4"	21	21.2	3



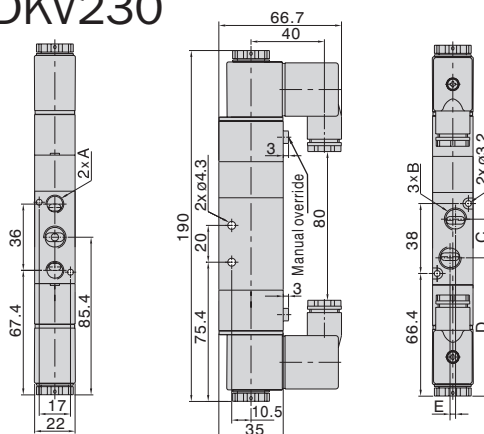
DKV220



Model	A	B	C	D	E
DKV220-06	1/8"	1/8"	18	76.4	0
DKV220-08	1/8"	1/4"	21	74.9	3



DKV230



Model	A	B	C	D	E
DKV230-06	1/8"	1/8"	18	76.4	0
DKV230-08	1/8"	1/4"	21	74.9	3

No.	Item	No.	Item	No.	Item
1	Connector	9	Wearing Ring	17	Override Spring
2	Coil Nut	10	End Cover	18	Manual Override
3	Coil	11	Fixed Screw	19	Spring Holder
4	Armature	12	Spool Spring	20	Return Spring
5	Fixed Plate	13	End Cover Gasket	21	Side Cover
6	Piston	14	Spool O-ring	22	Spring Holder
7	Pilot Kit	15	Spool		
8	Body	16	Piston O-ring		

SOLENOID VALVE (5/2 & 5/3 WAY) DKV300 SERIES

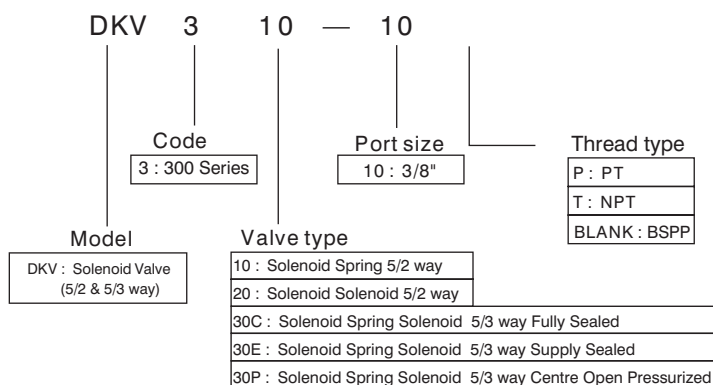


Specification

Model	DKV310-10 DKV320-10	DKV330C-10 DKV330E-10 DKV330P-10
Fluid	Air (to be filtered by 40µm filter element)	
Acting	Internal Piloted	
Port	Inlet & Outlet 3/8"	Exhaust 1/4"
Orifice	30.0mm ² (Cv=1.68)	18.0mm ² (Cv=1.00)
Valve Type	5/2	5/3
Operating Pressure	0.15–0.8MPa (21–114psi)	
Proof Pressure	1.5MPa (215psi)	
Temperature	-20 to +70°C	
Material of Body	Aluminum Alloy	
Lubrication	Not required	
Max. frequency	4 cycle/sec	3 cycle/sec
Weight	DKV310-10 310g DKV320-10 400g	450g



Ordering Code



Symbol

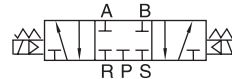
Solenoid Spring



Solenoid Solenoid



Fully Sealed



Supply Sealed

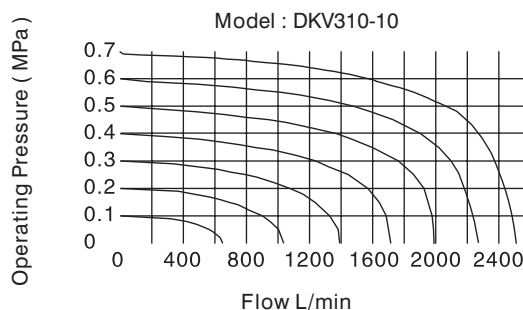
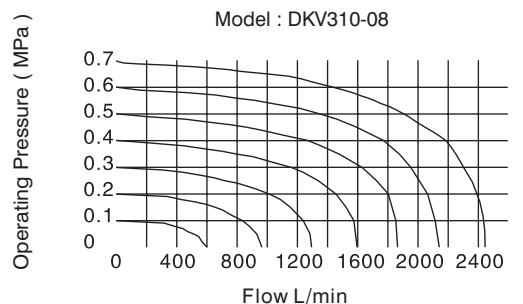


Centre Open Pressurized



Please refer to Page 15 for manifold specification and the order way.

Flow Chart



Product Features

Pilot-oriented mode has optional internal or external pilots.

Sliding spool has tight tolerances.

Three position valves have three different central functions.

Double control solenoid valves have memory function.

Internal orifice adopts special processing technology giving low friction and long service life.

Lubrication is not necessary but once oil is introduced to the valve it must be continued.

Manifold bases are available for 5/2 valves to save installation space.

Valves have manual override for test purposes.

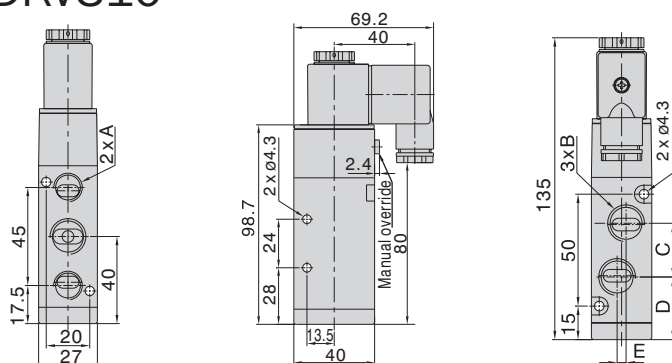
Several standard voltages are available.

SOLENOID VALVE (5/2 & 5/3 WAY)

DKV300 SERIES

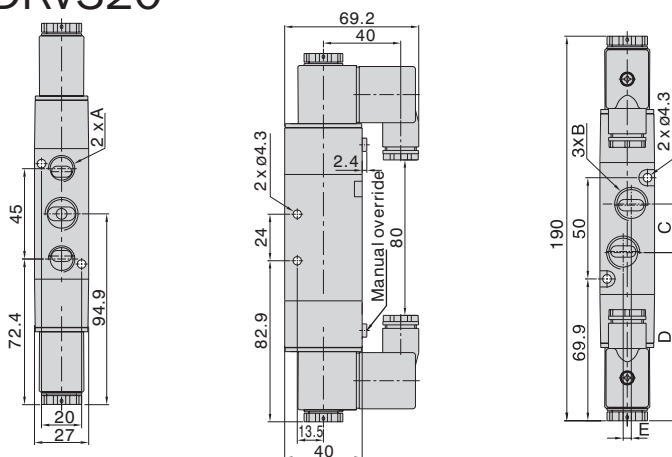
Dimensions

DKV310



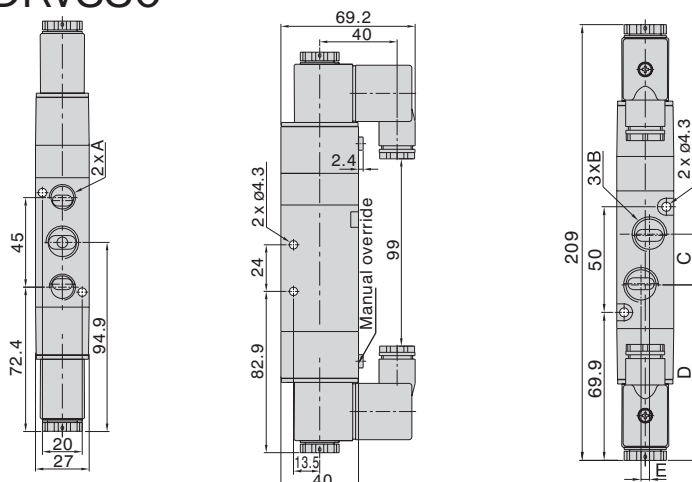
Model	A	B	C	D	E
DKV310-10	1/4"	3/8"	24	28	4

DKV320



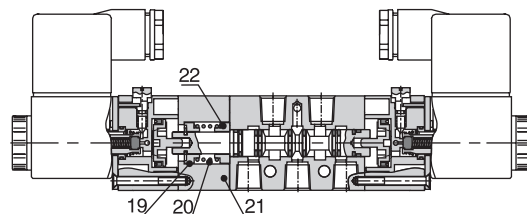
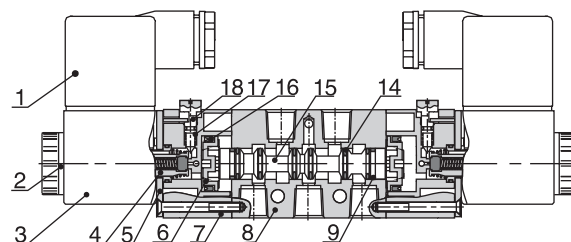
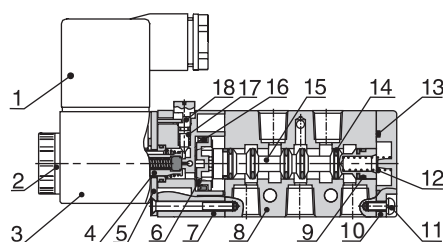
Model	A	B	C	D	E
DKV320-10	1/4"	3/8"	24	82.9	4

DKV330



Model	A	B	C	D	E
DKV330-10	1/4"	3/8"	24	82.9	4

Inner Structure



No.	Item	No.	Item	No.	Item
1	Connector	9	Wearing Ring	17	Override Spring
2	Coil Nut	10	End Cover	18	Manual Override
3	Coil	11	Fixed Screw	19	Spring Holder
4	Armature	12	Spool Spring	20	Return Spring
5	Fixed Plate	13	End Cover Gasket	21	Side Cover
6	Piston	14	Spool O-ring	22	Spring Holder
7	Pilot Kit	15	Spool		
8	Body	16	Piston O-ring		

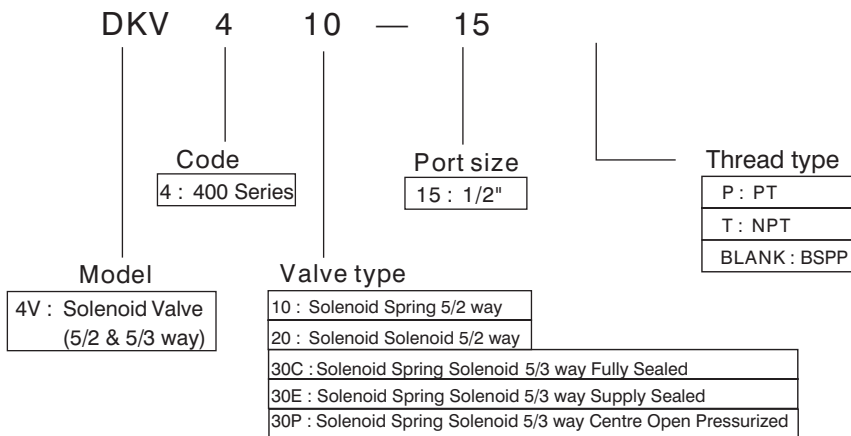
SOLENOID VALVE (5/2 & 5/3 WAY) DKV400 SERIES



Specification

Model	DKV410-15	DKV420-15	DKV430C-15	DKV430E-15	DKV430P-15
Fluid	Air (to be filtered by 40µm filter element)				
Acting	Internal Piloted				
Port	1/2"				
Orifice	50.0mm ² (Cv=2.79)		30.0mm ² (Cv=1.68)		
Valve Type	5/2		5/3		
Operating Pressure	0.15~0.8MPa (21~114psi)				
Proof Pressure	1.5MPa (215psi)				
Temperature	-20 to +70°C				
Material of Body	Aluminum Alloy				
Lubrication	Not required				
Max. frequency	3 cycle/sec				
Weight	590g	720g	770g		

Ordering Code

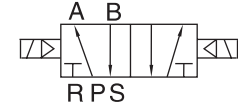


Symbol

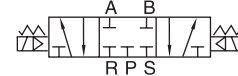
Solenoid Spring



Solenoid Solenoid



Fully Sealed



Supply Sealed



Centre Open Pressurized



Please refer to Page 15 for manifold specification and the order way.

Product Features

Pilot-oriented mode has optional internal or external pilots.

Sliding spool has tight tolerances.

Three position valves have three different central functions.

Double control solenoid valves have memory function.

Internal orifice adopts special processing technology giving low friction and long service life.

Lubrication is not necessary but once oil is introduced to the valve it must be continued.

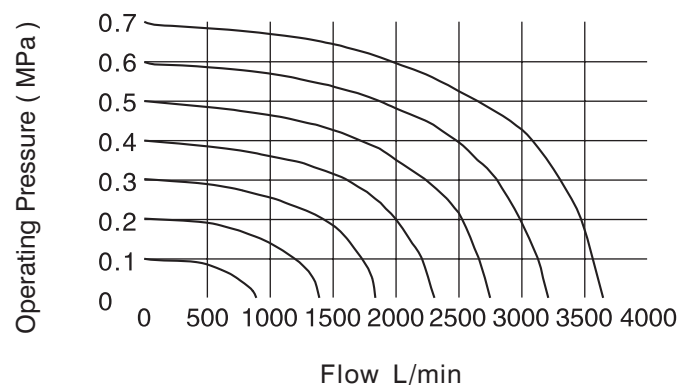
Manifold bases are available for 5/2 valves to save installation space.

Valves have manual override for test purposes.

Several standard voltages are available.

Flow Chart

Model : DKV410-15

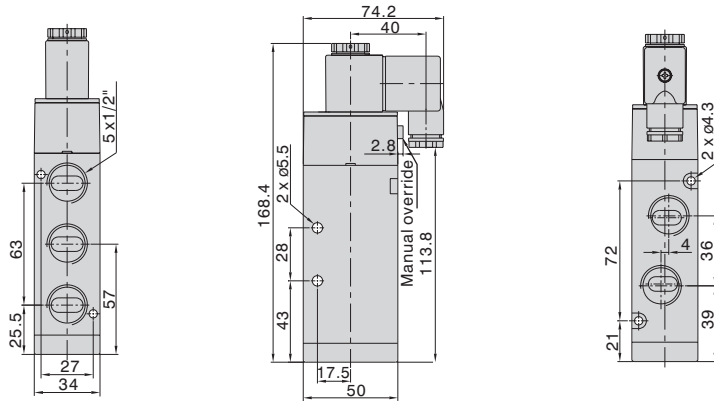


SOLENOID VALVE (5/2 & 5/3 WAY) DKV400 SERIES

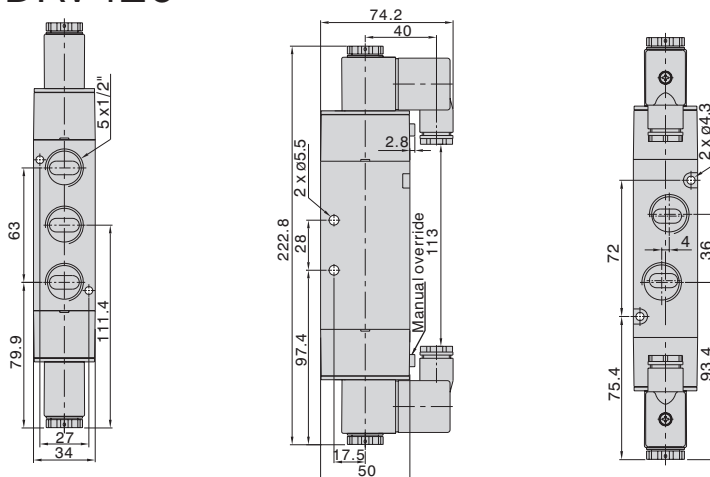


Dimensions

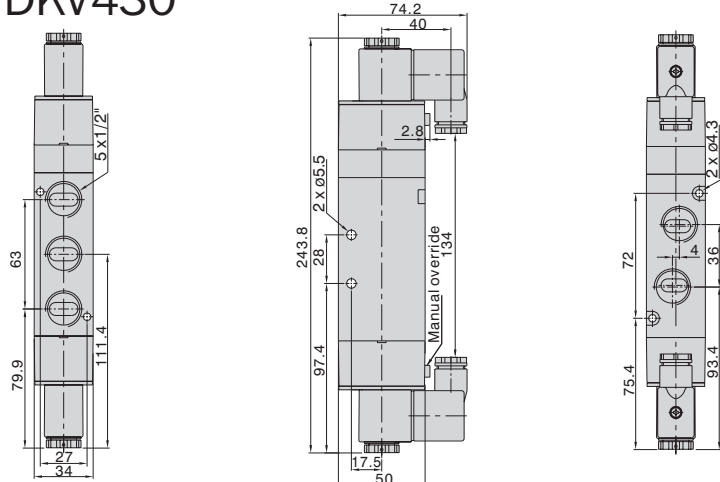
DKV410



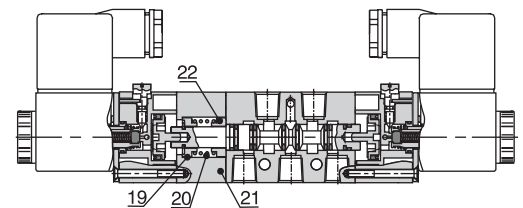
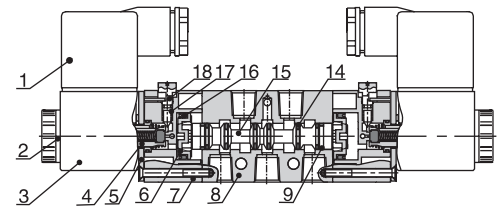
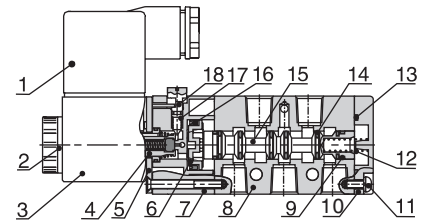
DKV420



DKV430



Inner Structure



No.	Item	No.	Item	No.	Item
1	Connector	9	Wearing Ring	17	Override Spring
2	Coil Nut	10	Bottom Cover	18	Manual Override
3	Coil	11	Fixed Screw	19	Spring Holder
4	Armature	12	Spool Spring	20	Return Spring
5	Fixed Plate	13	End Cover Gasket	21	Side Cover
6	Piston	14	Spool O-ring	22	Spring Holder
7	Pilot Kit	15	Spool		
8	Body	16	Piston O-ring		