# Dg-Pnetic®

Valve 3V1 3V2 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 ЗН 4H TSV 3R 4F HSV 4HV/4HVI Н٧  $K_{34}^{24}$ MOV JM MSV XQ2 3F/3FM 4F FV K<sub>25</sub> ASC RE QE ST ΚA XQ





## **Symbol**





#### **Product feature**

- Direct acting type and normally closed mode, flexible in direction change.
- 2. Normally closed and normally open types are optional.
- 3. Structure in coaxial blanking mode: leakage proof and large air flow.
- 4. No need to add oil for lubrication
- Affiliated manual devices are equipped to facilitate installation and debugging.
- Valve needs to be used with the sub-base and allows various connection combinations to save space.
- It is easy to examine when there are faults owning to the unified air intake and exhaust and unified wiring.
- Flexible combination and strong expansion capability can make any combination or expansion of the numbers of direction control valves that are connected.
- Can adjust the installation direction of special sub-base seal for NO or NC functions.

#### **Specifications**

Model	3V2M					
Fluid	Air (to be filtered by 40µm filter element					
Acting	Direct acting					
Port size ①	1/8"					
Valve type	3 port 2 position					
Orifice size	1.7mm <sup>2</sup> (Cv=0.1)					
Exhaust type	Centralized exhaust, Separated exhaust					
Operating pressure	0~0.8MPa(0~114psi)					
Proof pressure	1.2MPa(175psi)					
Temperature (℃)	-20~70					
Material of body	Aluminum alloy					

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

#### **Coil specifications**

Item	Specification						
Standard voltage	AC220V	AC110V	AC24V	DC24V	DC12V		
Scope of voltage	AC: ±15% DC: ±10%						
Power consumption	AC: 7VA DC: 7.0W						
Protection	IP65(DIN40050)						
Temperature classification	B Class						
Electrical entry	Terminal, Grommet						
Activating time	0.05 sec and below						
Max. frequency ①	10 cycle/sec						

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

#### Ordering code

# Ordering code for valve 3V2M

Model

3V2M Solenoid valve (3/2 way, with manifold)

Acting type

NC Normally closed

NO Normally opened

NC	-	4	
	Volt	age	
	A	AC220V	
	В	DC24V	
	С	AC110V	
	Е	AC24V	
	F	DC12V	

     Electrical entry						
Blank	Terminal					
T	Grommet					

## Ordering code for manifold

3V2M | Model | Exhaust type |
3V2M | Solenoid valve (3/2 way, with manifold) | Mumber of stations | Thread type |

1F | 1 Station | Blank | PT |

 1F
 1 Station

 2F
 2 Stations

 ......
 20F

 20 Stations

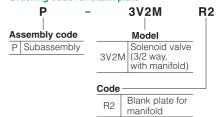
G G T NPT

Note: Manifold kits contains manifold, seal and screw. The port size is only 1/8".

## Ordering code for valve's group(Valve+manifold)

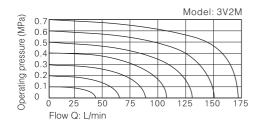
3V2M	NC		A	[		D	ı	5 <b>F</b>		
Model		١	/oltage	Electric	cal entry		Numb	er of stations	Thread	type
Solenoid valve		Α	AC220V	Blank	Terminal		1F	1 Station	Blank	PT
3V2M (3/2 way, with manifold)		В	DC24V	T	Grommet		2F	2 Stations	G	G
		С	AC110V						Т	NPT
Acting type ———		Е	AC24V				20F	20 Stations		
NC Normally closed		F	DC12V	Exhaus	st type ——					
NO Normally opened				Blank	Centralized	e>	haust			
					Separated 6	ext	naust			

#### Ordering code for blank plate

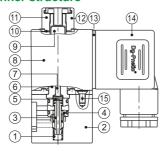


Note: Blank plate kits contains blank plate and screw.

### Flow chart



### Inner structure



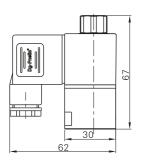
No.	Item	No.	Item
1	Spring	9	Armature
2	Body	10	Washer
3	Spool	11	Coil nut
4	Spacer	12	Manual button
5	Washer	13	Gasket
6	Electromagnet set	14	Connector
7	Man drill	15	Pilot screw
8	Coil		

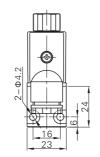
AQ

# Dg-Pnetic®

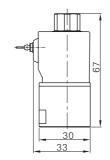
#### **Dimensions**

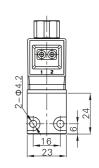
### Valve (Terminal)



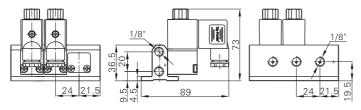


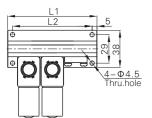
## Valve (Grommet)





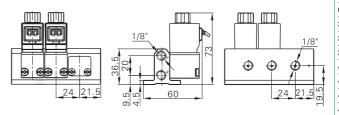
### Valve's group (Terminal, centralized exhaust)

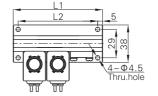




L1=24Xn+19, L2=24Xn+9 "N" means number of stations.

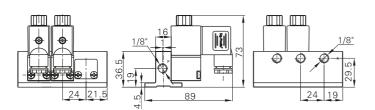
## Valve's group (Terminal, separated exhaust)

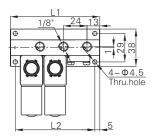




L1=24Xn+19, L2=24Xn+9 "N" means number of stations.

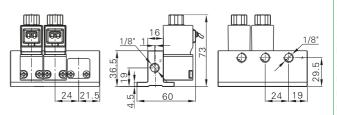
#### Valve's group (Grommet, centralized exhaust)

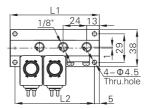




L1=24Xn+19, L2=24Xn+9 "N" means number of stations.

#### Valve's group (Grommet, separated exhaust)





L1=24Xn+19, L2=24Xn+9 "N" means number of stations.

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Valve

AQ