

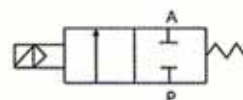
# UM Series Electro-Magnetic Pulse Valve



UM-15



UM-25



## Working Principle

The electro-magnetic pulse diaphragm valve is composed of two gas cells. When the compressed air is connected, it comes into the back gas cell through the orifice. The pressure in the back gas cell pushes the diaphragm close against the outlet of the valve and the electro-magnetic valve stays in the "closed" condition.

The electrical signals from the pulse jet control device move the armature of the electromagnetic pulse valve. The air escape of the back gas cell opens and the back gas cell loses pressure quickly. Thus the diaphragm moves back and the compressed air blows through the valve outlet, the electro-magnetic pulse valve comes into the "open" condition.

When the electrical signals from the pulse control device disappear, the armature of the electro-magnetic pulse valve returns to its original position. The air escape of the back gas cell closes and the pressure in the back gas cell rises. Which pushes the diaphragm closes against the valve outlet. The electro-magnetic valve comes into its "closed" condition again.

## Material Construction

Body	Armature	Diaphragm & Seal	Spring	Screws
ADC12 Diecast Aluminium	430FR Stainless Steel	Nitriie	321 Stainless Steel	302 Stainless Steel

UM - 15

AC220V

**Specification Code**

UM : Electro-magnetic Pulse Valve

**Diameter**

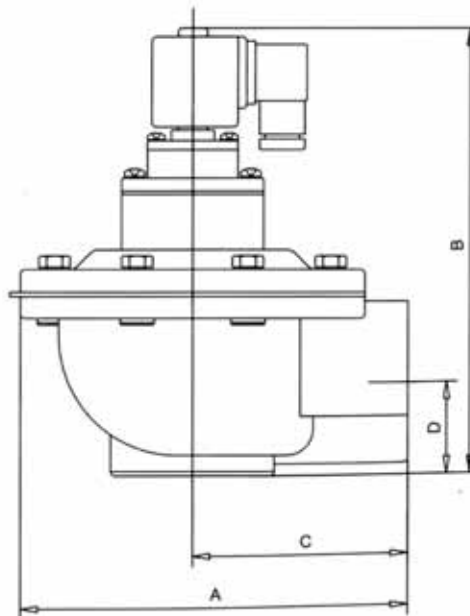
15 : 1/2"	50 : 2"
20 : 3/4"	62 : 2 1/2"
25 : 1"	76 : 3"
35 : 1 1/4"	
40 : 1 1/2"	

**Standard Voltage**

DC24V  
AC110V 50/60Hz  
AC220V 50/60Hz

Specification								
Model	UM-15	UM-20	UM-25	UM-35	UM-40	UM-50	UM-62	UM-76
Diameter	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Number of Diaphragm	1	1	1	2	2	2	2	2
Size of Inlet Diaphragm	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"	G 2 1/2"	G 3"
Outlet Orifice Connection	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"	G 2 1/2"	G 3"
Working Pressure	0.2 ~ 0.6MPa							

## Overall Dimension



Model	A	B	C	D
UM-20	101	124	62	21
UM-25	110	125	63	21.5
UM-35	140	142	78	32.5
UM-40	140	170	78	32.5
UM-50	210	200	112	40
UM-62	210	225	115	48
UM-76	217	254	117	66