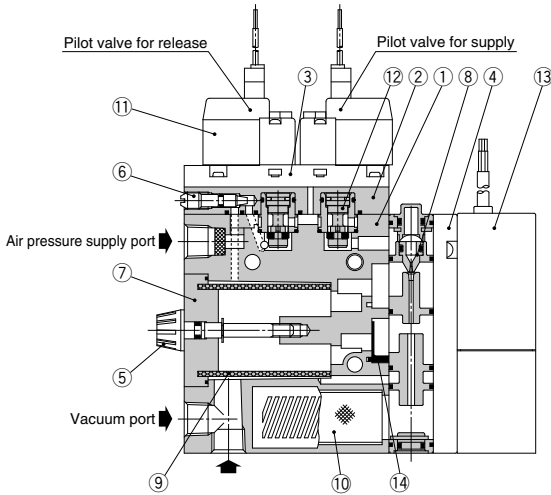


Construction: ZM□1□-K□L-E□



⚠ Precautions

Be sure to read before handling.
Refer to back page 1 for Safety Instructions and back page 2 to 4 for Vacuum Equipment Precautions.

⚠ Caution

Selection and sizing of Series ZM

Refer to the Vacuum Equipment Model Selection on front matter 18 to 39.

Operation of an ejector equipped with a valve

When the air supply pilot valve is turned ON, air flows to the diffuser assembly, and a vacuum is created.

When the pilot valve for releasing the vacuum is turned ON, air flows to the vacuum port side, immediately causing a release in the vacuum. The release speed can be adjusted by regulating the flow volume adjustment screw.

When the supply valve is turned OFF, the atmospheric pressure causes the air to flow back from the silencer, thus releasing the vacuum. However, in order to properly release a vacuum, a vacuum release valve must be used.

Operating environment

Because the filter cover is made of polycarbonate, do not use it with or expose it to following chemicals: paint thinner, carbon tetrachloride, chloroform, acetic ester, aniline, cyclohexane, trichloroethylene, sulfuric acid, lactic acid, water-soluble cutting oil (alkalinic), etc. Also, do not expose it to direct sunlight.

Furthermore, avoid use in direct sunlight.

Release flow rate adjusting screw

Turning the vacuum release flow rate adjusting screw 4 full turns from the fully closed position renders the valve fully open. Do not turn more than four times since turning excessively may cause the screw fall off.

In order to prevent the screw from loosening and falling out, the release flow rate adjusting needle with lock nut is also available.

Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted	
2	Valve cover	Resin	
3	Adapter plate	Resin	
4	Cover	Zinc die-casted	Without switch: ZM-HCA, With switch: ZM-HCB
5	Tension bolt	Stainless steel/Polyacetal	

Replacement Parts

No.	Description	Material	Part no.
6	Release flow rate adjusting needle	Brass/Electroless nickel plating	ZM-NA (With lock nut: ZM-ND-L)
7	Filter cover assembly	—	ZM-FCB-0
8	Diffuser assembly	—	ZM□□□□-0 (Refer to page 176) Nozzle diameter Standard supply pressure
9	Suction filter	Polyethylene	ZM-SF
10	Silencer assembly	—	ZM-SA (High noise reduction: ZM-SA-D)
11	Pilot valve	—	Z1-V114-□□□□ (Refer to page 177) V124-□□□□
12	Poppet valve assembly	—	ZMA-PV2-0
13	Vacuum pressure switch	—	ZSE1-00-□□ ZSM1-015 ZSM1-021
14	Check valve	NBR	ZM-CV

Made to Order Specifications 1

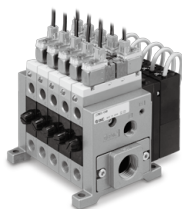
Please contact SMC for detailed specifications, dimensions, and delivery.



1 Double Check Valve/For Manifold

Single: ZM Nozzle diameter Body Supply pressure — Valve voltage Electrical entry — X107
↓ Double check valve

When a manifold is used, the exhaust that is discharged to the silencer could flow out to the vacuum (V) port side. To reduce this, a check valve is used.



⚠ Warning

1. It cannot be used for maintaining a vacuum.
2. Use a vacuum release valve. (Compatible with valve K, B and Q5 types only.) (The workpiece cannot be released without a vacuum release valve.)
3. Compatible with the manifold specifications only.

Construction

