

## SWITCHOVER DOCUMENT

### ZQ\*A Series

Compact vacuum unit, Ejector system / Vacuum pump system

# Improved features and related benefits

## Feature

- Vacuum pressure switch with energy saving function for up to 90 % air consumption reduction. Intermittent energising (supply/exhaust) only when vacuum decreases.

## Customer Benefit

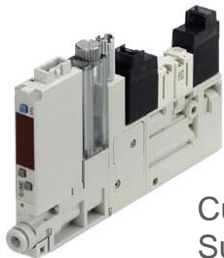
- High efficiency.

## Feature

- Use of V100 series as pilot valve, instead of VQ100. Power consumption reduced by 60 % compared with the current model.

## Customer Benefit

- Reduced running costs.



Current model (ZQ)  
Supply valve / Release valve (VQ100): 1 W



New model (ZQ\*A)  
Supply valve / Release valve (V100): 0.4 W

## Improved features and related benefits

### Feature

- Reduced weight, as low as 60 g (without release valve).

### Customer Benefit

- Weight reduction, less inert moments when the ejector is mounted in mobile applications (example: robot arms).



Current model (ZQ)  
95 g



New model (ZQ\*A)  
60 g



### Feature


- Vacuum release pressure from 0 MPa.

### Customer Benefit

- Allows to reduced the air consumption.

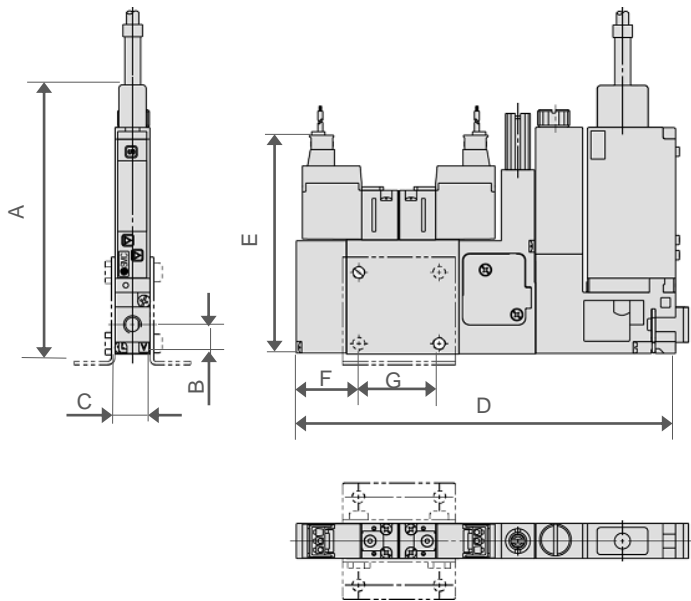
## Standard Specification

Model		ZQ 	ZQ*A 
Nozzle sizes		0.5, 0.7, 1.0	0.5, 0.7, 1.0
Max. vacuum pressure		-80 kPa	-80 kPa
Max. suction flow rate		5 to 22 l/min (ANR)	5 to 22 l/min (ANR)
Max. air consumption		14 to 46 l/min (ANR)	15 to 47 l/min (ANR)
Supply pressure range		0.3 to 0.5 MPa	0.3 to 0.5 MPa
Operating temperature range		5 to 50 °C	5 to 50 °C
Supply Valve / Release Valve	Power consumption	1 W	0.4 W
	Rated coil voltage	12, 24 VDC	24 VDC
Vacuum pressure switch	Energy saving function	No	Yes
	Enclosure	IP40	IP40

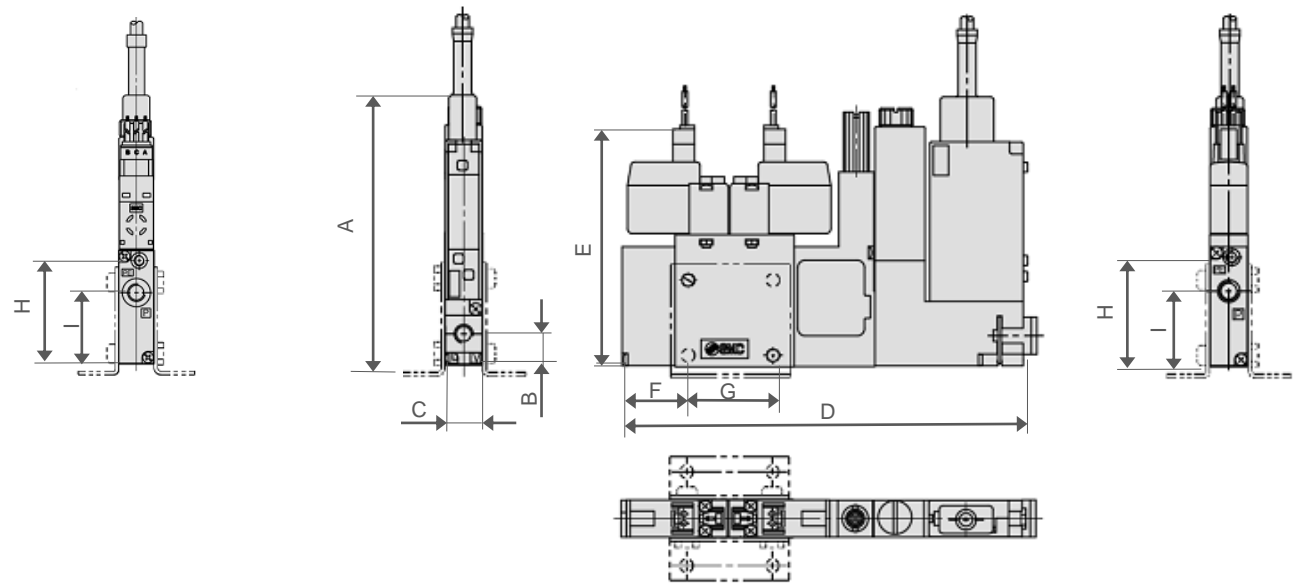
 Difference in specifications

## Dimensions

Vacuum ejector: Single unit specification



Current product (ZQ Series)



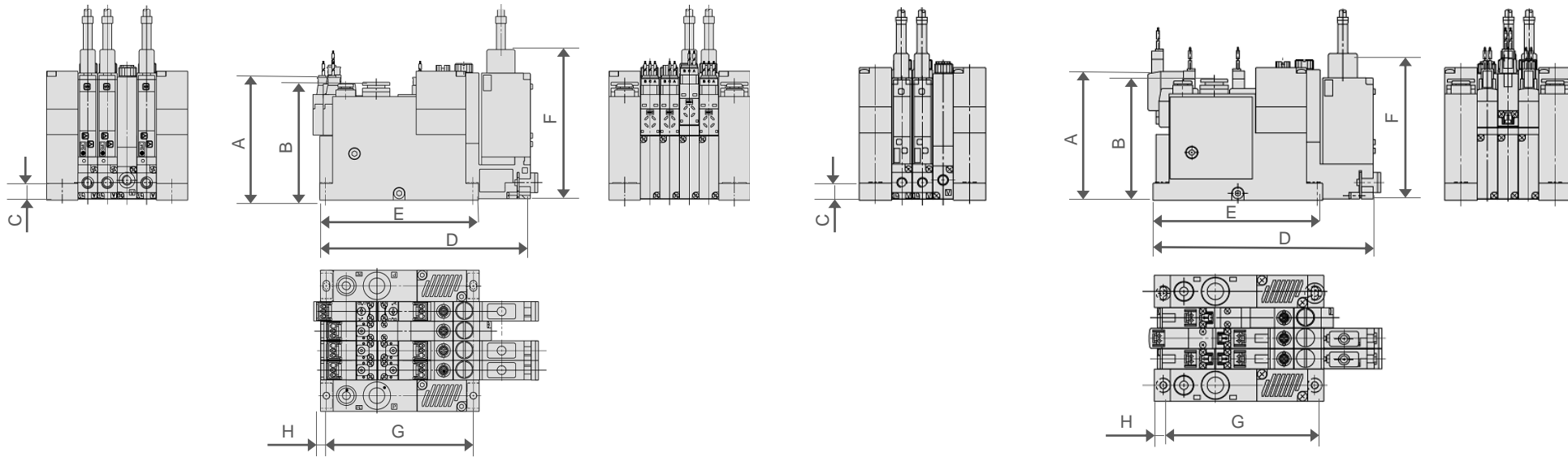
New product (ZQ\*A Series)

	A		B		C		D		E		F		G		H		I	
Nominal nozzle size 0.5, 0.7, 1.0 mm	79.3	75.4	8.4	8.3	10	10.2	107.5	113.3	63.1	64.7	17.7	23.5	22.8	22.8	29.4	29.4	20.3	20.3

Difference in specifications

## Dimensions

Vacuum ejector: Manifold specification



Current product (ZQ Series)

New product (ZQ\*A Series)

	A		B		C		D		E		F		G		H	
Nominal nozzle size 0.5, 0.7, 1.0 mm	63.6	65.2	60.1	60.1	8.9	8.8	107.5	109	81	84	76.8	72.4	75	75	3	4.5

Difference in specifications