



SWITCHOVER DOCUMENT

ZL3 Series Multistage ejector

*Not applicable to the ZL1 or ZL6 Series

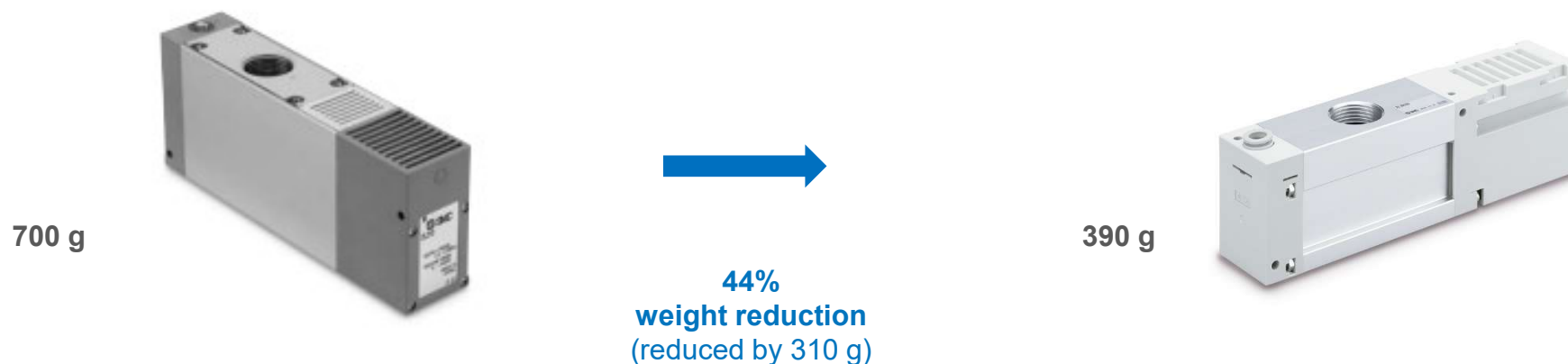
Improved features and related benefits

Feature

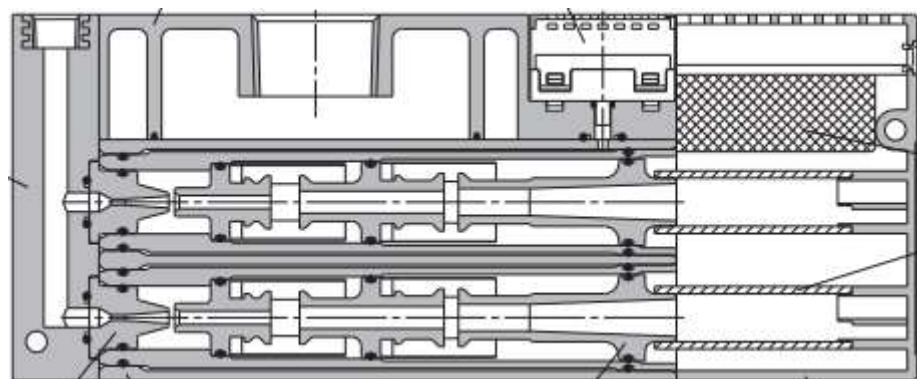
- Lightweight body, reduced overall weight up to 310 g.

Customer Benefit

- Decreased load on moving parts of industrial robots. Lightweight machines.
- Downsized machines.



Current product: ZL212

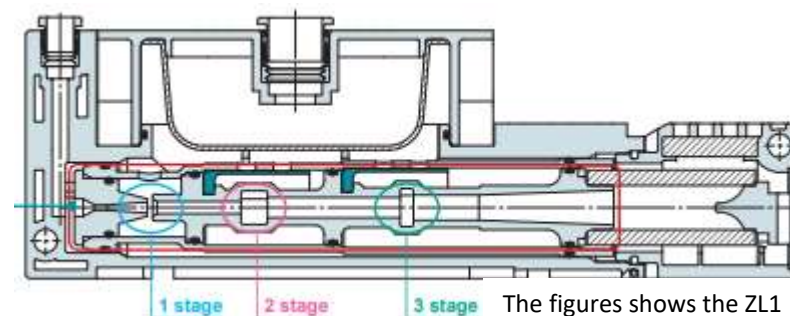


2 built-in nozzles

1 nozzle reduction,
leading to weight
reduction



New product: ZL3



1 built-in nozzle

The figures shows the ZL1

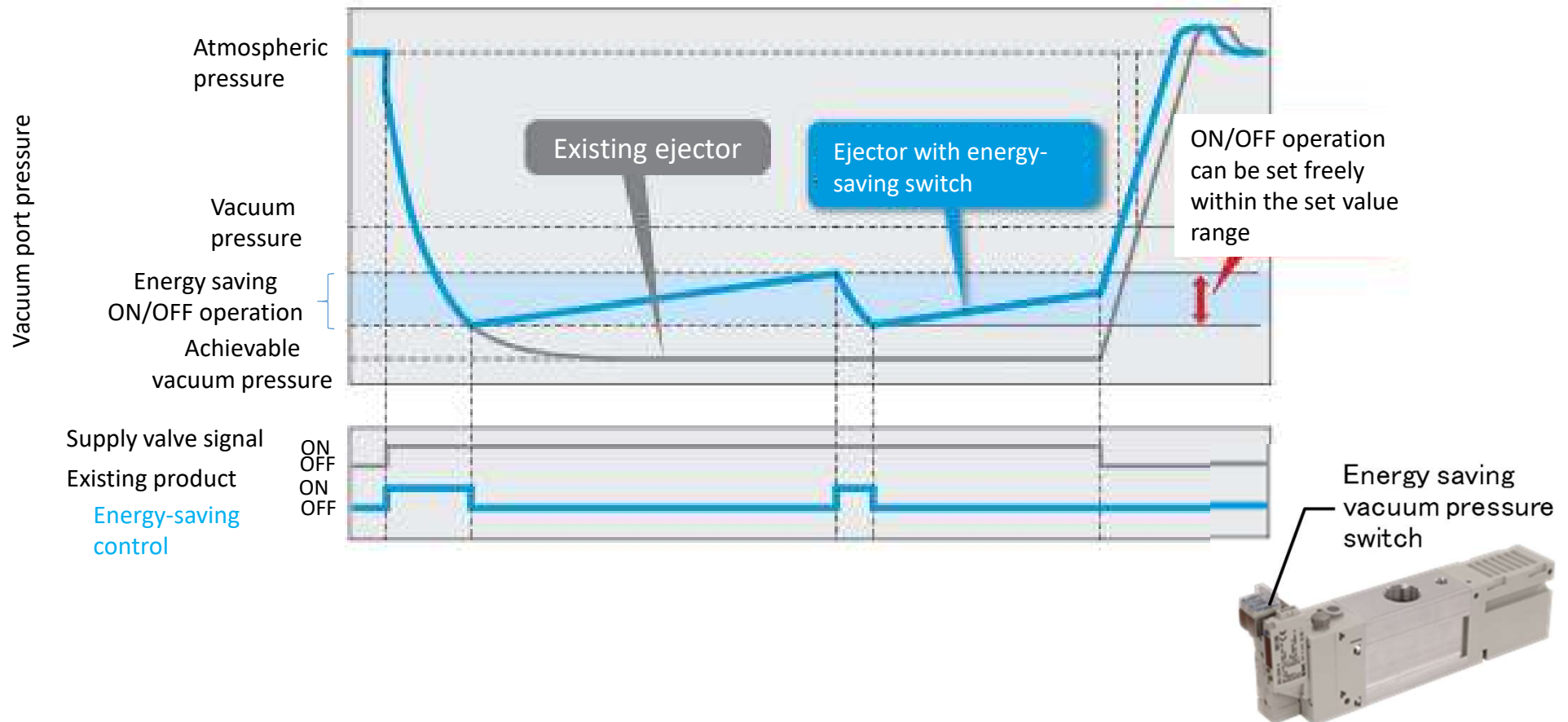
Improved features and related benefits

Feature

- A reduction of air consumption is possible thanks to the pressure switch for vacuum with energy-saving function.
- Cuts off the supply air when the desired pressure is reached.

Customer Benefit

- Energy saving (approximately 90 %)



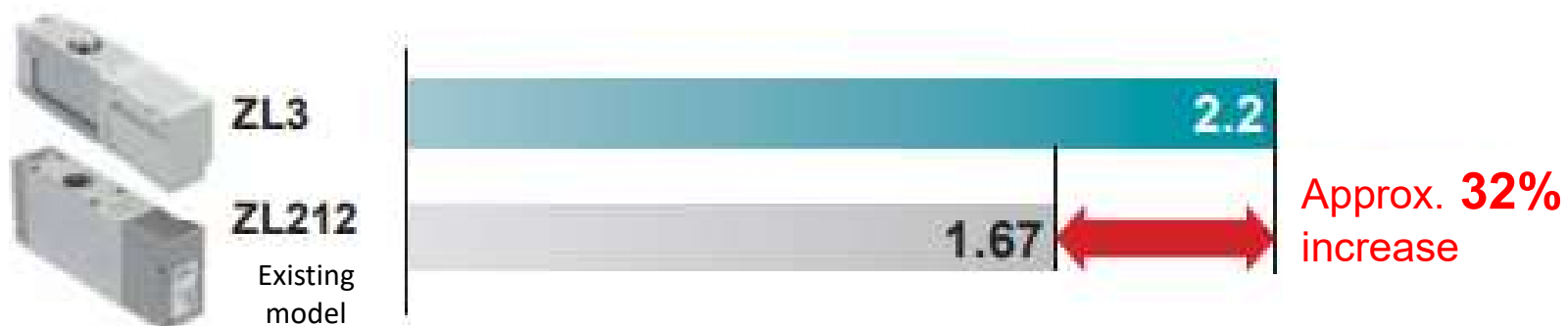
Improved features and related benefits

Feature

- Increase of suction flow rate of up to 300 l/min

Customer Benefit

- Reduction of suction response time
- Increased efficiency



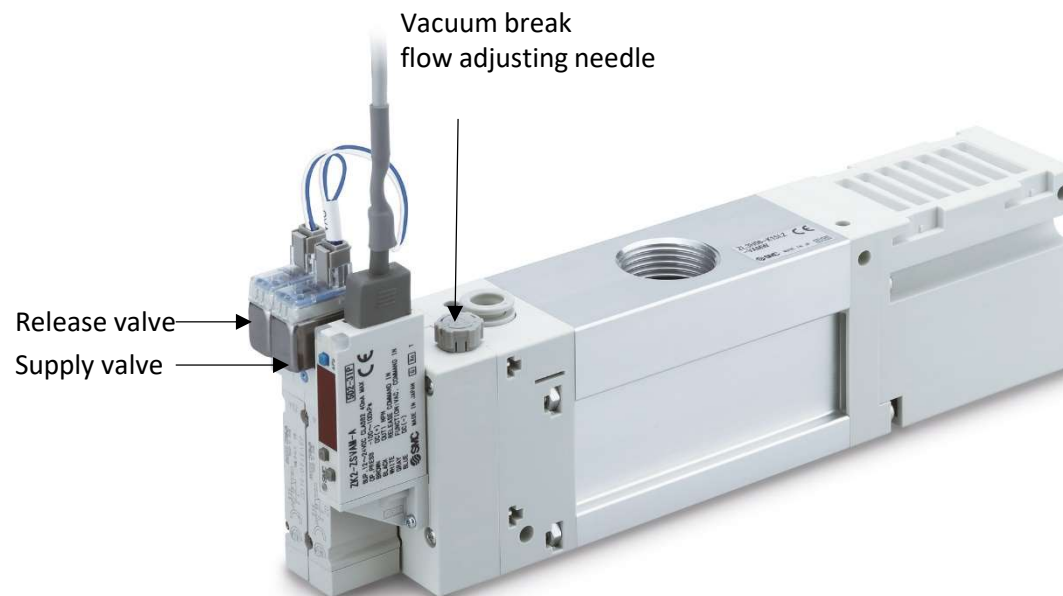
Improved features and related benefits

Feature

- Use of JSY series valves (ZL3-JSY3140), with different options as standard
 - Supply valve (N.C.), Release valve (N.C.)
 - Supply valve (N.C.)
 - Supply valve (N.O.), Release valve (N.C.)
 - Supply valve (N.O.)

Customer Benefit

- Flexibility for use in many different applications.



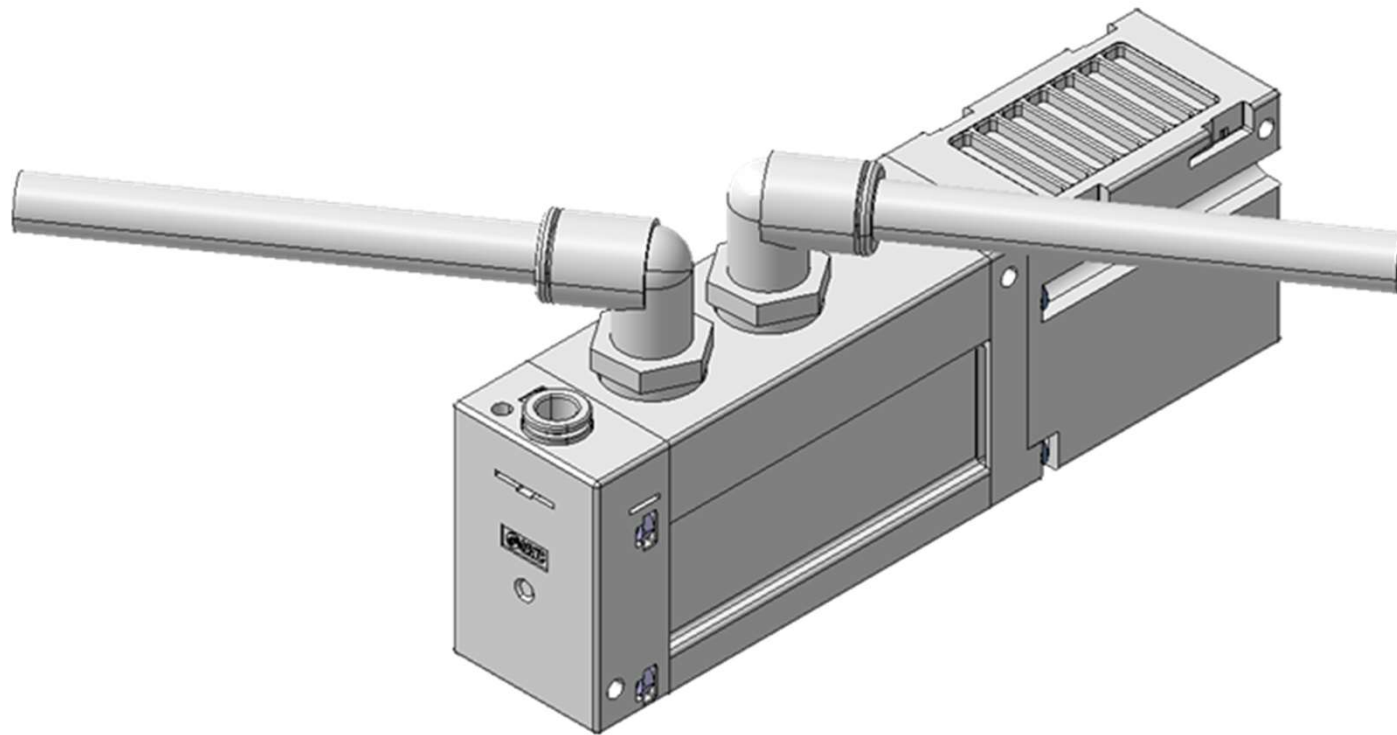
Improved features and related benefits

Feature

- Additional branch port connection available

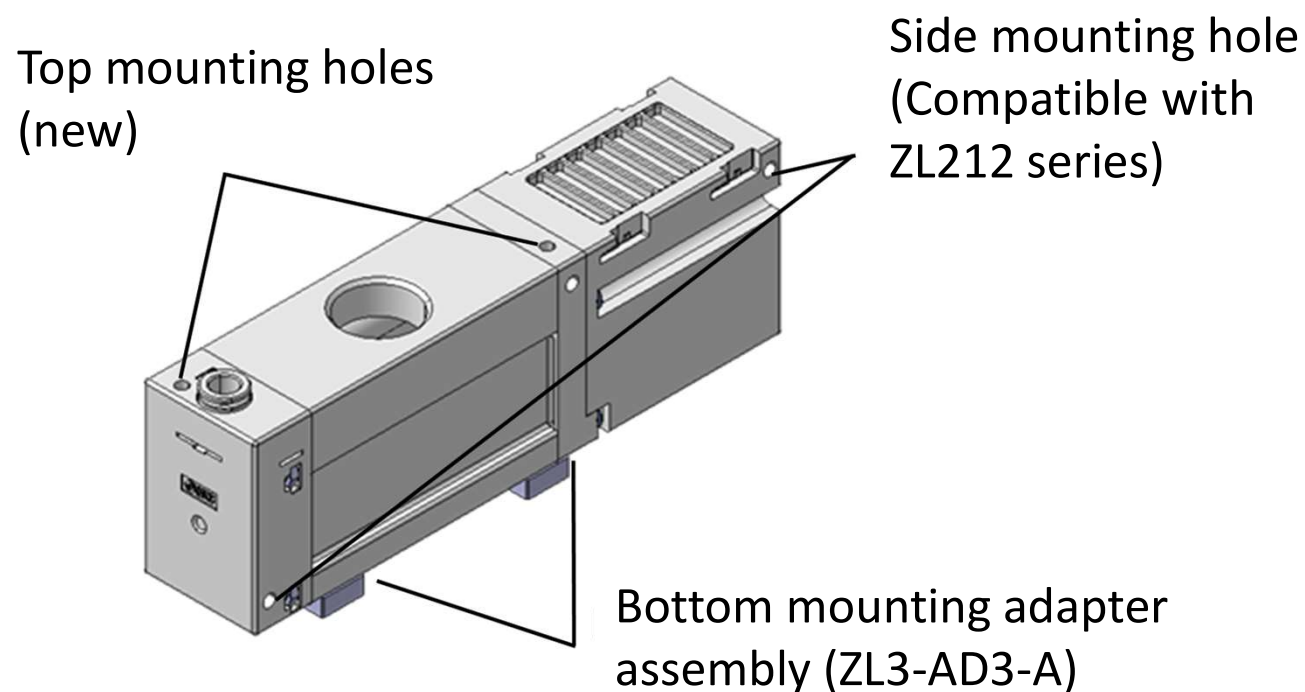
Customer Benefit

- Easier branch piping, therefore no piping requirement by the customers
- Connection with one-touch fittings



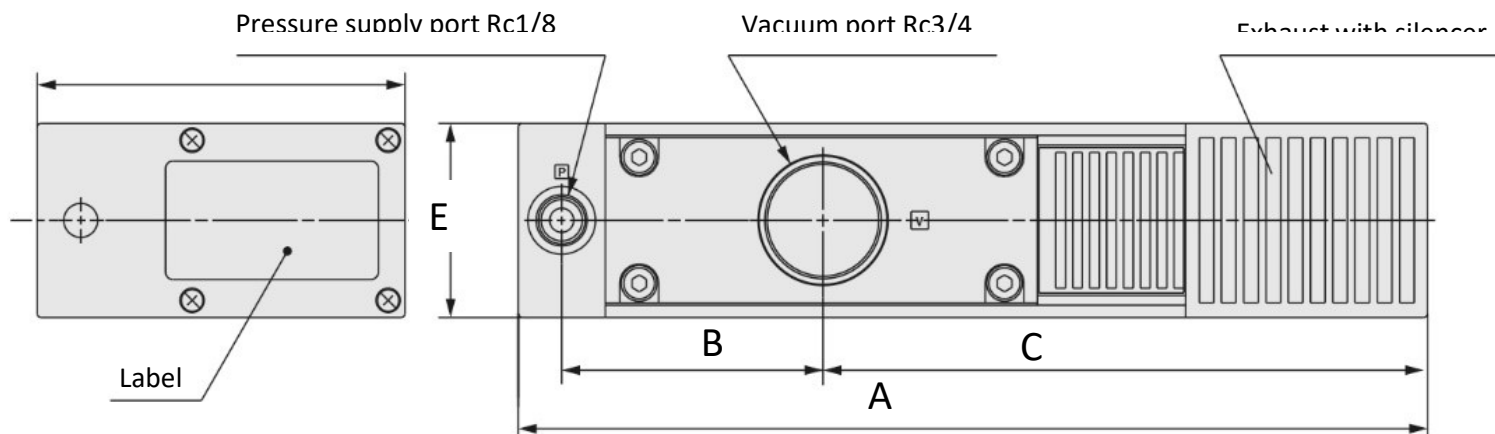
Interchangeability

- Mounting is interchangeable with the current model (adapter assembly is required for bottom mounting).
- Same mounting hole pitches
- New top mounting holes, making mounting of the ejector easier than the existing product.

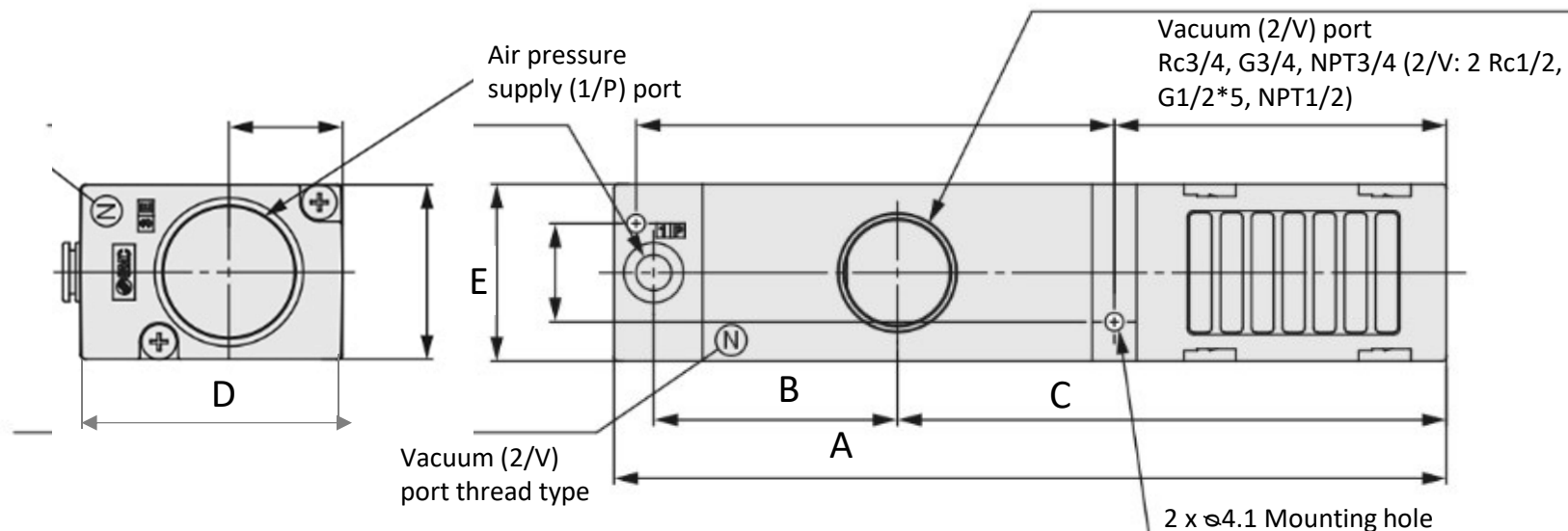


Interchangeability

OLD



NEW



B		C		D		E	
OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW
54	55	125	124	76	60	40	40

Standard specifications

	ZL212	ZL3
Fluid	Air	Air
Nozzle diameter	1.2 mm	1.5 or 1.9 mm
Standard supply pressure	0.4 MPa	Without valve: 0.35 MPa With valve: 0.5 MPa
Maximum vacuum pressure *	-84 kPa	-93 kPa
Air consumption *	126 l/min (ANR)	135 or 150 l/min (ANR)
Maximum suction flow rate *	200 l/min (ANR)	300 l/min (ANR)
Supply pressure range	0.2 to 0.5 MPa	0.2 to 0.6 MPa
Operating temperature range	5 to 50 °C	-5 to 50 °C (No condensation)
Weight	700 g	390 g
Vibration resistance	No valve	20 m/s ²
Impact resistance	No valve	100 m/s ²

* Values are at the standard supply pressure and based on SMC's measurement standards.
They depend on atmospheric pressure (weather, altitude, etc.) and the measurement method.

 Difference in specifications