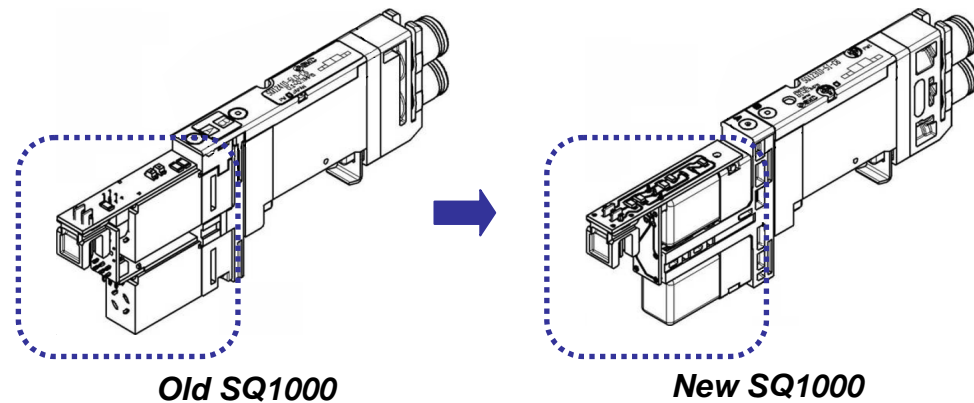


**New SQ1000/2000 series  
5 port solenoid valve**

# Improved features and related benefits

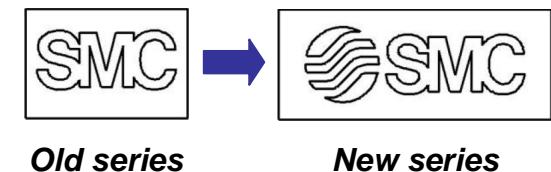
**FEATURE:** The pilot valve has been changed from VQ100 to V100 in order to reduce the power consumption from 1.0 W and 0.5 W in the standard and the low wattage types respectively, to 0.4 W in the standard model.

**CUSTOMER BENEFIT:** Cost savings due to energy saving.



**FEATURE:** The labelling method is changed from seal to laser marking, and SMC logo on the light cover is changed from letters SMC to SMC registered trademark.

**CUSTOMER BENEFIT:** Easier identification of the product and contribution to an improved external appearance.



# Technical details

## ■ Solenoid specifications

			Old SQ1000/2000	New SQ1000/2000
Coil rated voltage [VDC]			12, 24	12, 24
Allowable voltage fluctuation			± 10% of rated voltage	± 10% of rated voltage
Coil insulation type			Equivalent to class B	Equivalent to class B
Power consumption (DC) [W]	12 VDC	Standard type	1 W DC (42 mA)	0.4 W DC (17 mA)
		Low wattage type	0.5 W DC (21 mA)	n/a
		Quick response type	n/a	0.95 W DC (40 mA)
	24 VDC	Standard type	1 W DC (83 mA)	0.4 W DC (34 mA)
		Low wattage type	0.5 W DC (42 mA)	n/a
		Quick response type	n/a	0.95 W DC (80 mA)

*The change in the pilot valve implies that:*

- *There is no interchangeability in the mounting of the pilot valve*
- *The latching type is not available in the new SQ1000/2000, but still available in the existing series*
- *There is a change in the location of the manual override on side A for SQ1000*

## ■ Valve functions

	Old SQ1000/2000	New SQ1000/2000
Standard	1 W	0.4 W - low power consumption standardized
Low wattage type	0.5 W	n/a
Fast response type	n/a	0.95W - for equivalent response times as the old series
2 position double action (double solenoid)	Available	Available, but latching type is not available
Other valve functions	High voltage, negative common, external pilot	High voltage, negative common, external pilot

 Different specifications

# Technical details

## ▪ Valve specifications: SQ1000

Type of actuation		Seal	Model	Response time [ms]			
				Old SQ1000		New SQ1000	
				Standard (1W)	Low wattage (0.5 W)	Standard (0.4 W)	Quick response (0.95 W)
2 position	Single	Metal seal	<b>SQ1130</b>	12 or less	15 or less	26 or less	12 or less
		Rubber seal	<b>SQ1131</b>	15 or less	20 or less	24 or less	15 or less
	Double (latching)	Metal seal	<b>SQ1230</b>	15 or less	n/a	n/a	n/a
		Rubber seal	<b>SQ1231</b>	20 or less	n/a	n/a	n/a
	Double (double solenoid)	Metal seal	<b>SQ1230D</b>	10 or less	13 or less	13 or less	10 or less
		Rubber seal	<b>SQ1231D</b>	15 or less	20 or less	20 or less	15 or less
3 position	Closed centre	Metal seal	<b>SQ1330</b>	20 or less	26 or less	44 or less	29 or less
		Rubber seal	<b>SQ1331</b>	25 or less	33 or less	39 or less	25 or less
	Exhaust centre	Metal seal	<b>SQ1430</b>	20 or less	26 or less	44 or less	29 or less
		Rubber seal	<b>SQ1431</b>	25 or less	33 or less	39 or less	25 or less
	Pressure centre	Metal seal	<b>SQ1530</b>	20 or less	26 or less	44 or less	29 or less
		Rubber seal	<b>SQ1531</b>	25 or less	33 or less	39 or less	25 or less
4 position	Dual 3 port valve	Rubber seal	<b>SQ1A31</b> <b>SQ1B31</b> <b>DQ1C31</b>	25 or less	33 or less	27 or less	14 or less

 Different specifications

# Technical details

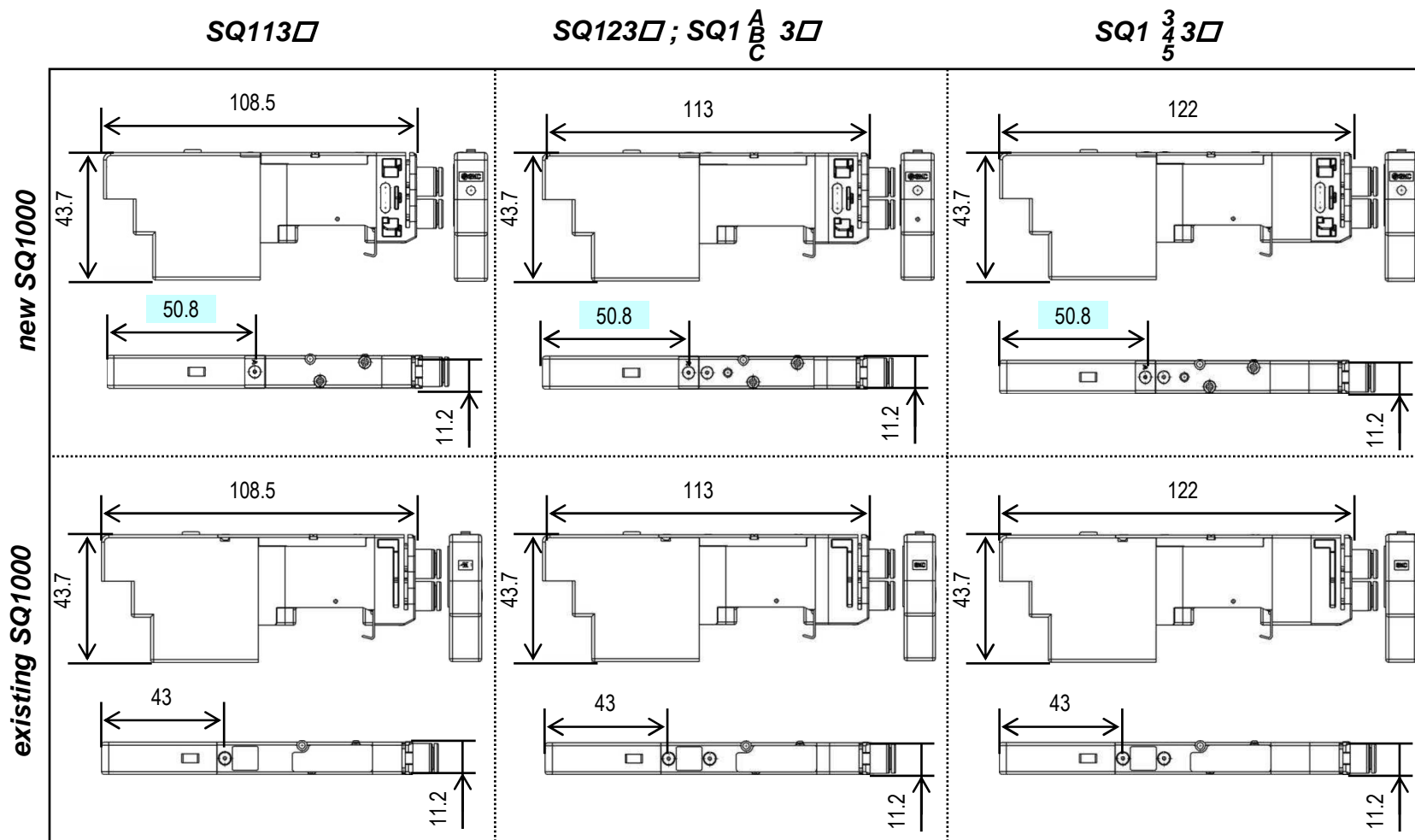
## ▪ Valve specifications: SQ2000

Type of actuation		Seal	Model	Response time [ms]			
				Old SQ2000		New SQ2000	
				Standard (1W)	Low wattage (0.5 W)	Standard (0.4 W)	Quick response (0.95 W)
2 position	Single	Metal seal	<b>SQ2130</b>	20 or less	26 or less	35 or less	20 or less
		Rubber seal	<b>SQ2131</b>	24 or less	31 or less	31 or less	24 or less
	Double (latching)	Metal seal	<b>SQ2230</b>	26 or less	n/a	n/a	n/a
		Rubber seal	<b>SQ2231</b>	31 or less	n/a	n/a	n/a
	Double (double solenoid)	Metal seal	<b>SQ2230D</b>	15 or less	20 or less	20 or less	15 or less
		Rubber seal	<b>SQ2231D</b>	20 or less	26 or less	26 or less	20 or less
3 position	Closed centre	Metal seal	<b>SQ2330</b>	34 or less	44 or less	56 or less	37 or less
		Rubber seal	<b>SQ2331</b>	34 or less	44 or less	44 or less	34 or less
	Exhaust centre	Metal seal	<b>SQ2430</b>	34 or less	44 or less	56 or less	37 or less
		Rubber seal	<b>SQ2431</b>	34 or less	44 or less	44 or less	34 or less
	Pressure centre	Metal seal	<b>SQ2530</b>	34 or less	44 or less	56 or less	37 or less
		Rubber seal	<b>SQ2531</b>	34 or less	44 or less	44 or less	34 or less
4 position	Dual 3 port valve	Rubber seal	<b>SQ2A31</b> <b>SQ2B31</b> <b>DQ2C31</b>	34 or less	44 or less	34 or less	19 or less

 Different specifications

# Technical details

## ■ Dimensions – Plug-in units

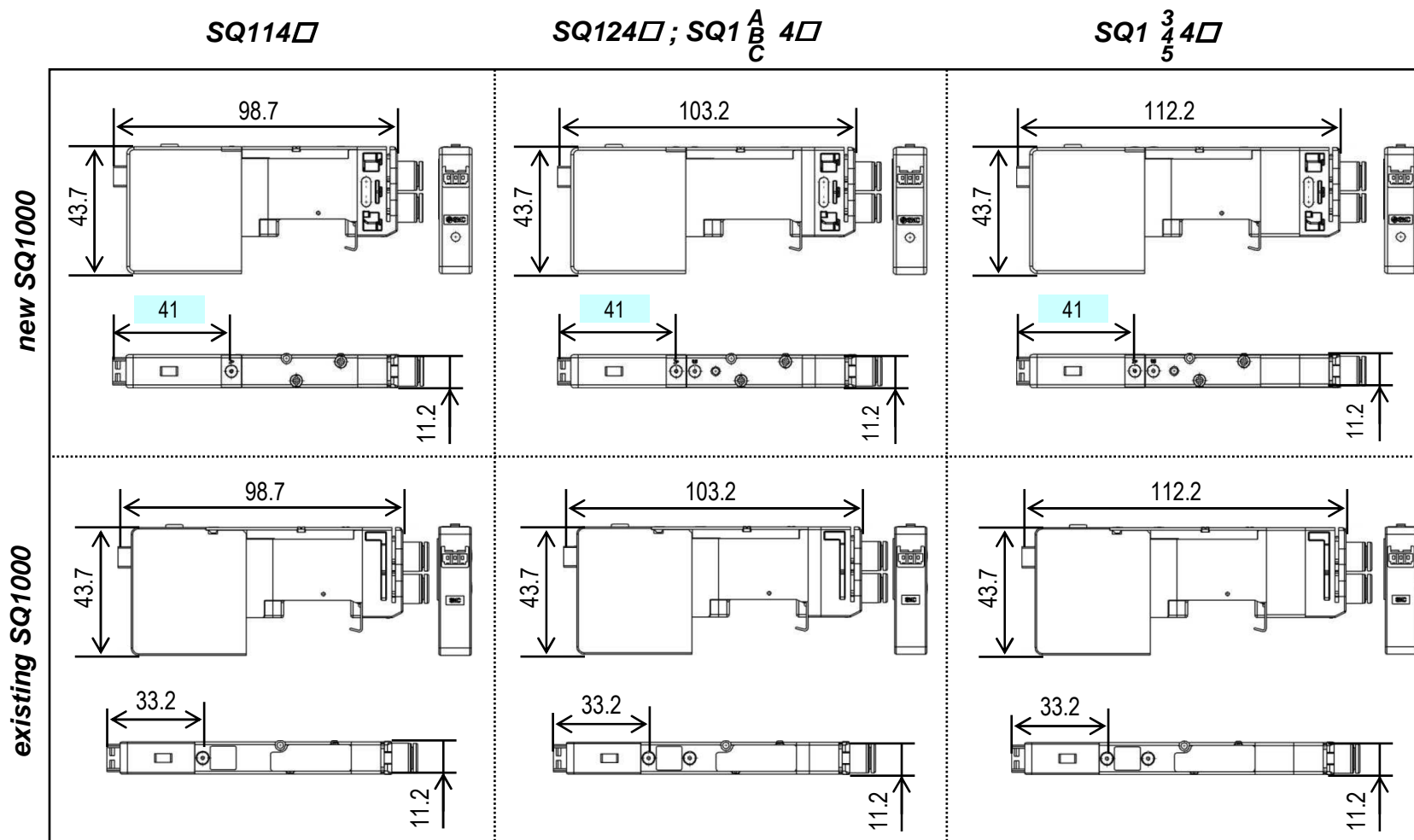


**No change in dimensions for the SQ2000**

 Different dimensions

# Technical details

## ■ Dimensions – Non-plug-in units



**No change in dimensions for the SQ2000**

 Different dimensions