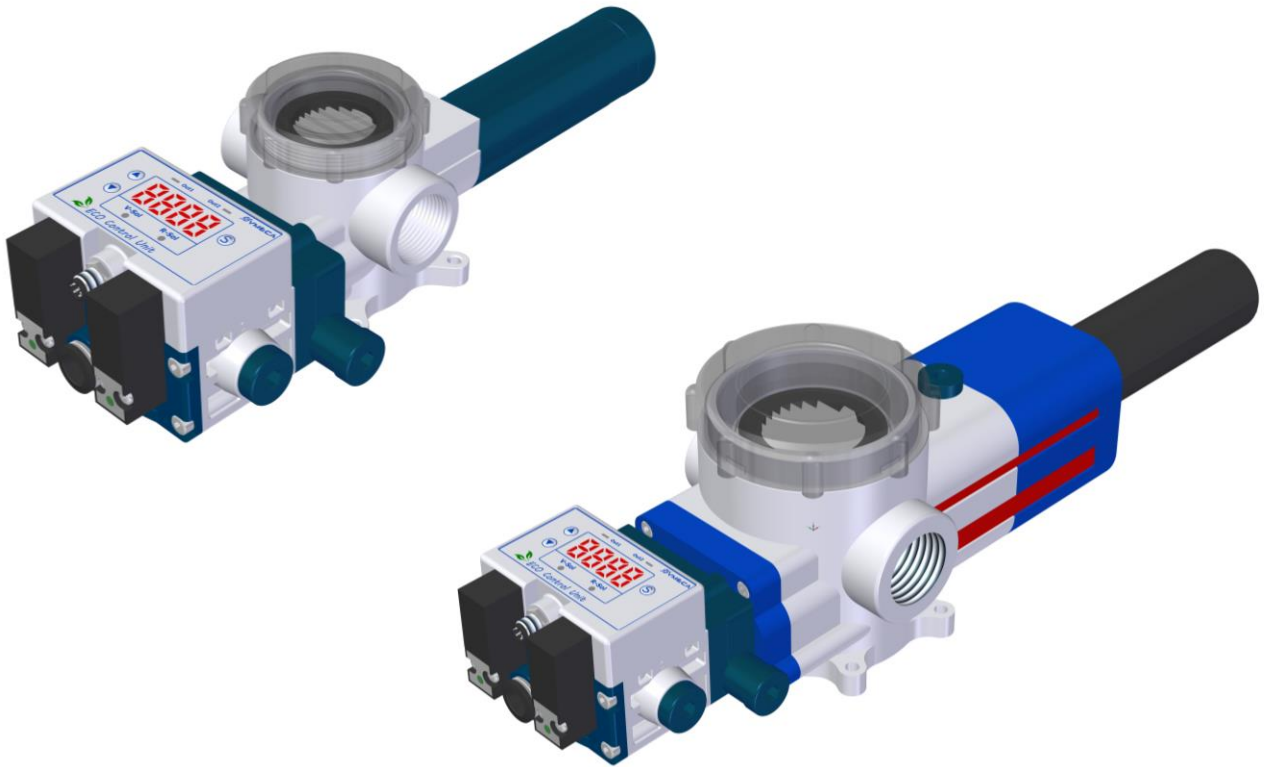


 *ECO Turtle Pump*



ECO Turtle Pump

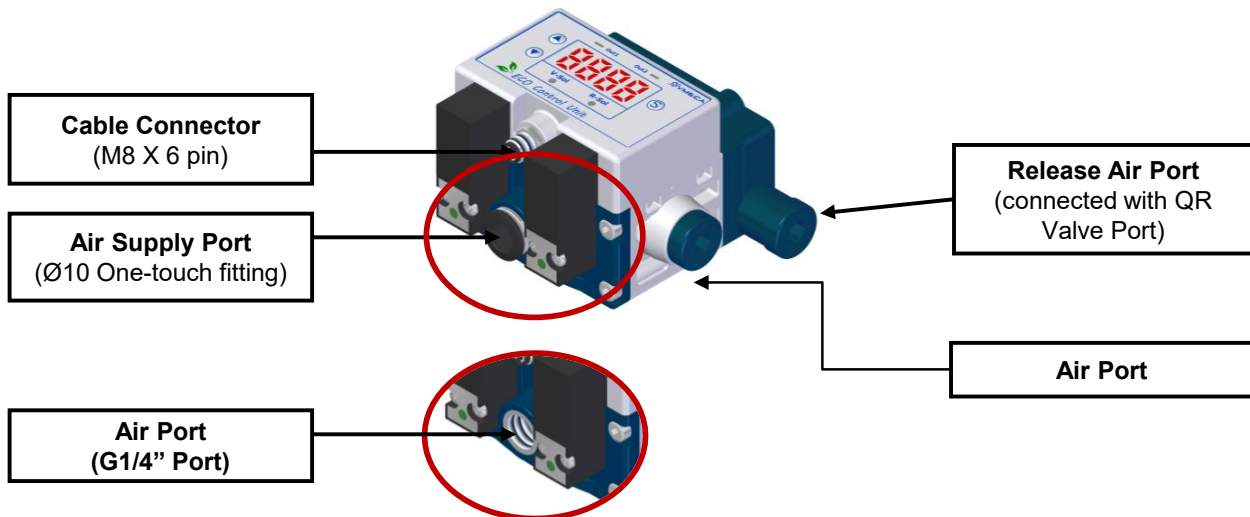
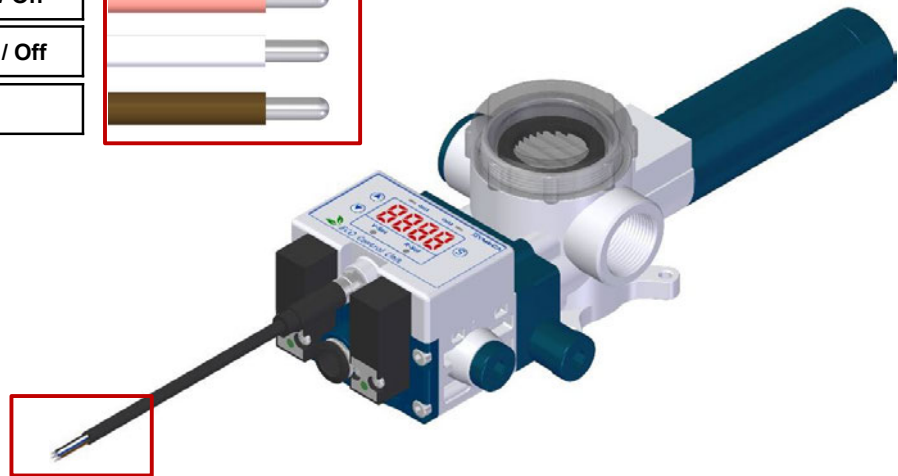
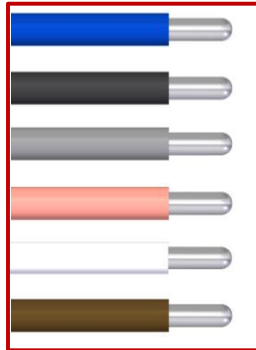
 **VMECA**™

Features and Strengths

- Integral structure: AS-kit + Digital Vacuum switch + 2 Control valves.
- Built-in air saving function, blocking air consumption when vacuum is reached.
- Installed with Turtle pumps (optimized for Turtle series)
- Easy and convenient wiring with M8X6PIN connector and wiring cable.

Cable wiring of Eco Turtle Pump

Blue	: DC 0V (-)
Black	: Out 1
Gray	: Out 2
Pink	: (-) Release On / Off
White	: (-) Vacuum On / Off
Brown	: DC 24V (+)

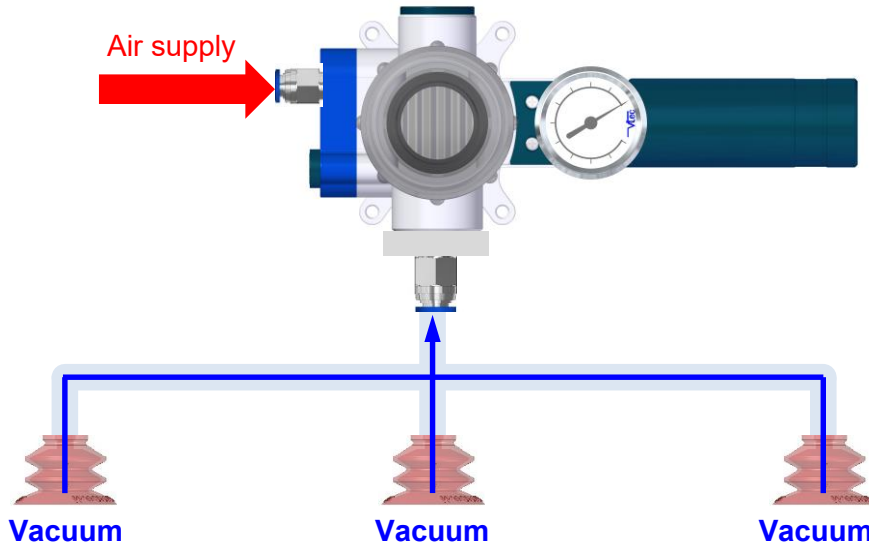


Specifications subject to change without notice.

Air Saving System

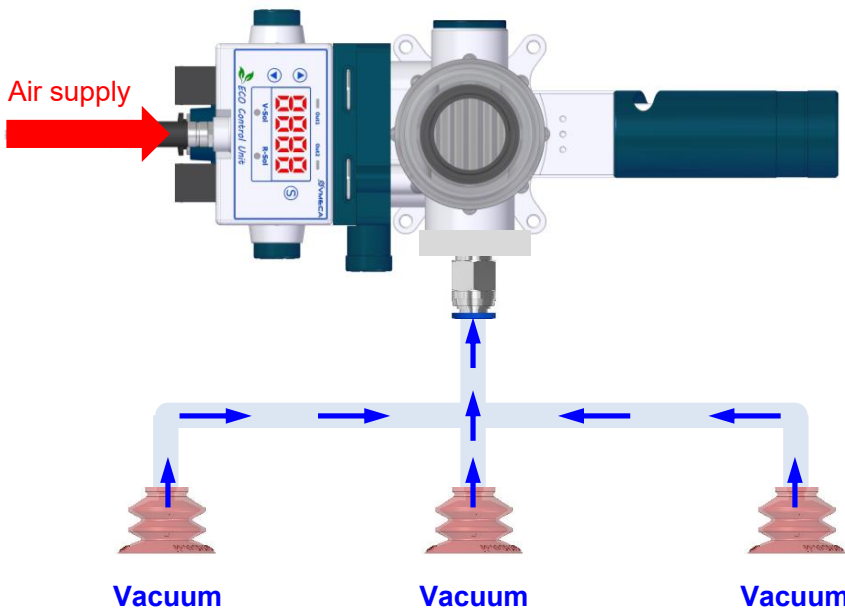
- By air saving function of Eco Turtle Pump, the air supply valve ON/OFF will be automatically operated within the range of the set value.

Standard Turtle Pump



✓ Compressed Air (energy) is continuously consumed even the cups are vacuumed.

Eco Turtle Pump

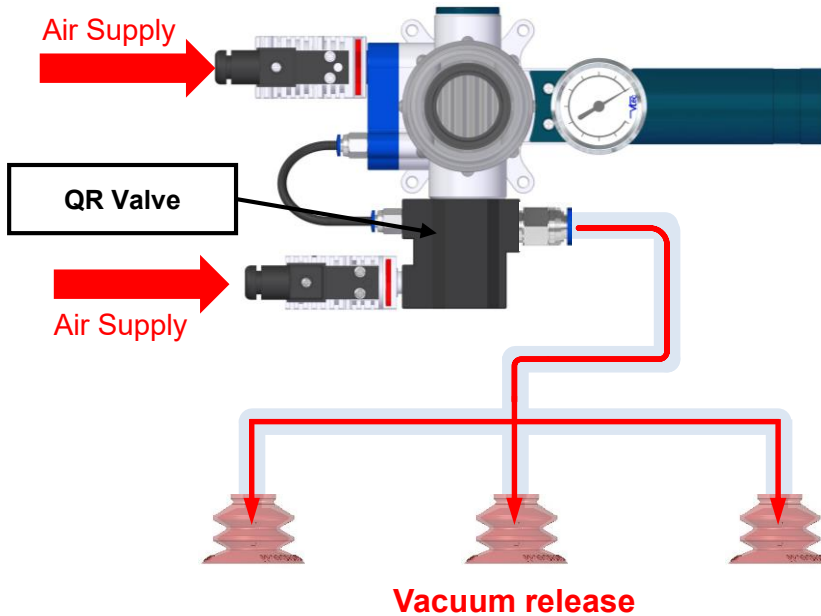


✓ Air saving 90%

✓ Compressed air is automatically cut off (energy saving) when the cups are vacuumed. And air is supplied again when vacuum level is lower than a set vacuum level automatically.

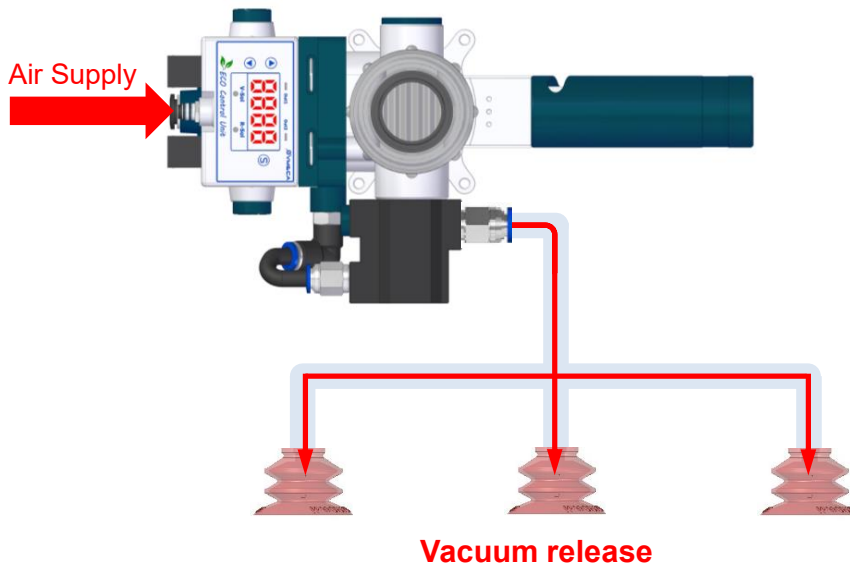
With QR Valve Module

Standard Turtle Pump



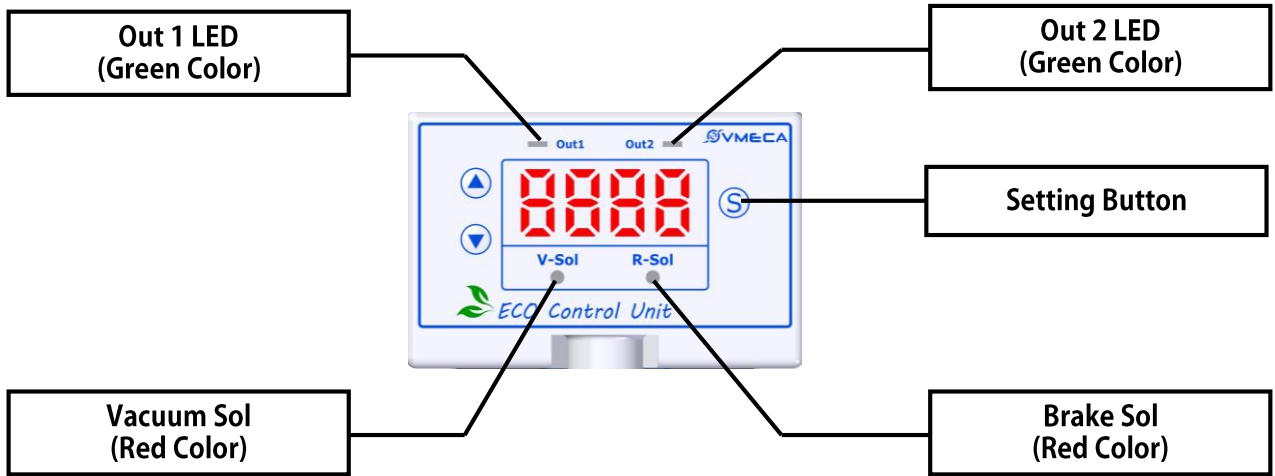
✓ When vacuum is released, release air is passing through the release control valve with QR-valve to release vacuum.

Eco Turtle Pump



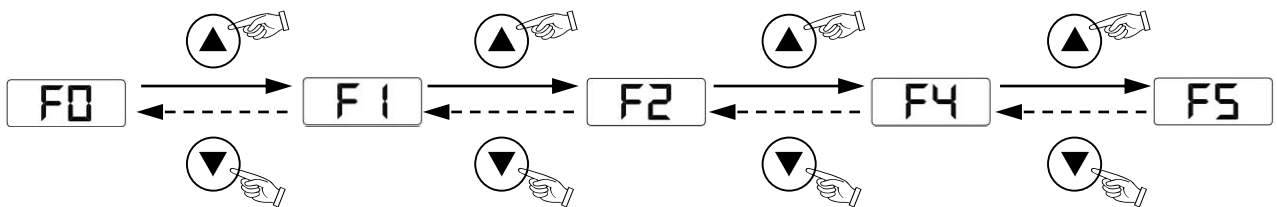
✓ When vacuum is release, air is supplied through air port of the Eco Turtle Pump, it released without release control valve and QR-valve also can be operated.

Eco Turtle Pump Setting



Function select mode

Press " **S** " setting button for 3 seconds - to enter the main set menu

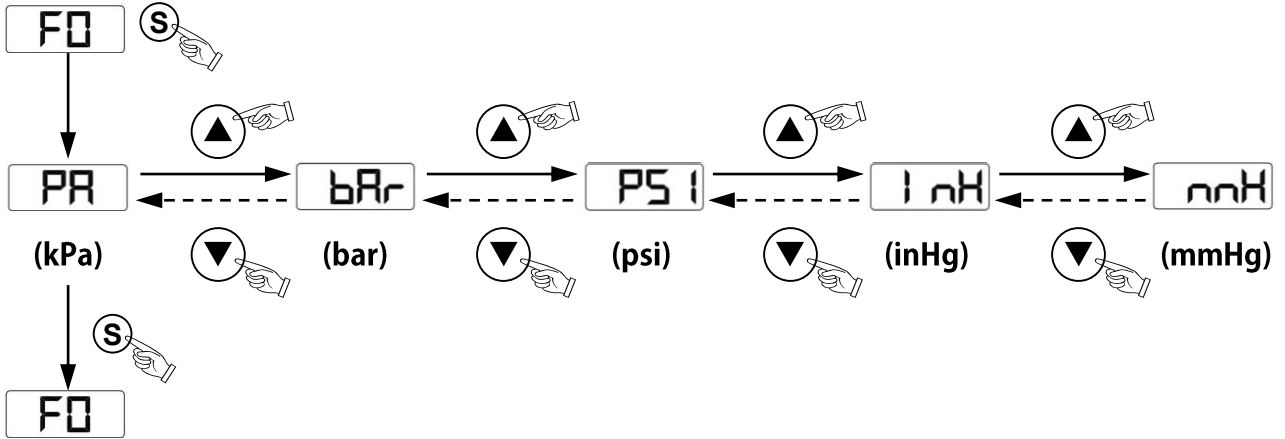


- F 0 → Unit setting
- F 1 → OUT1/ OUT2 mode setting
- F 2 → Air Saving (Vacuum sol.) sitting
- F 4 → Response time setting
- F 5 → Reset the setting (factory reset)

Specifications subject to change without notice.

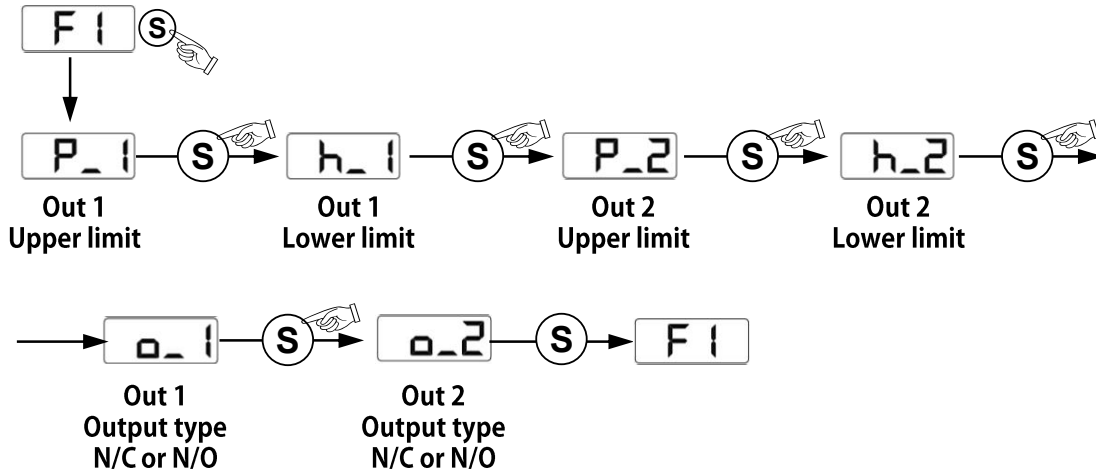
Vacuum Unit Setting Mode

Press " **S** " setting button for 3 seconds - to enter the main set menu



OUT1/ OUT1 Setting Mode

Press " **S** " setting button for 3 seconds - to enter the main set menu



P_1 Out 1: value of signal out (ON)

P_2 Out 2: value of signal out (ON)

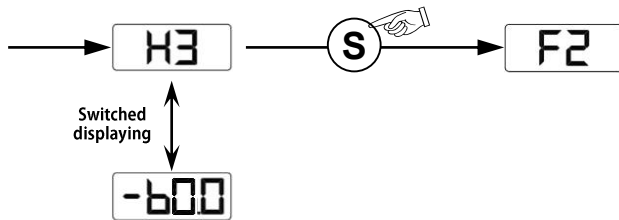
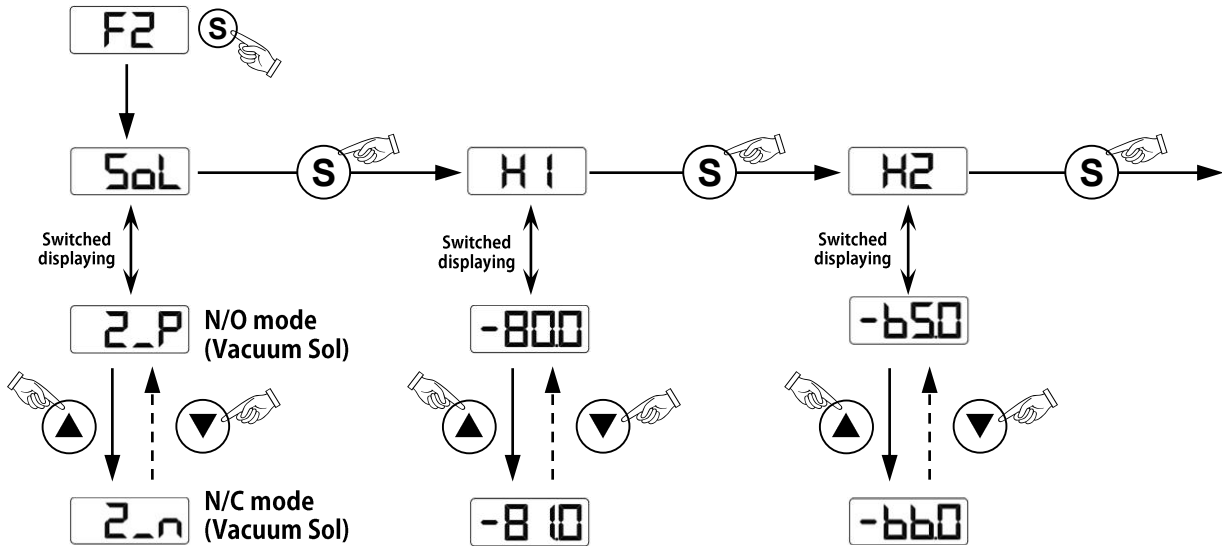
h_1 Out 1: value of signal stop (OFF)

h_2 Out 2: value of signal stop (OFF)

Specifications subject to change without notice.

Setting the Air saving(Vacuum solenoid valve)

Press “ **S** ” setting button for 3 seconds - to enter the main set menu



h 1(Vacuum lower limit) displayed

* Not available to set this value lower than h1 value.

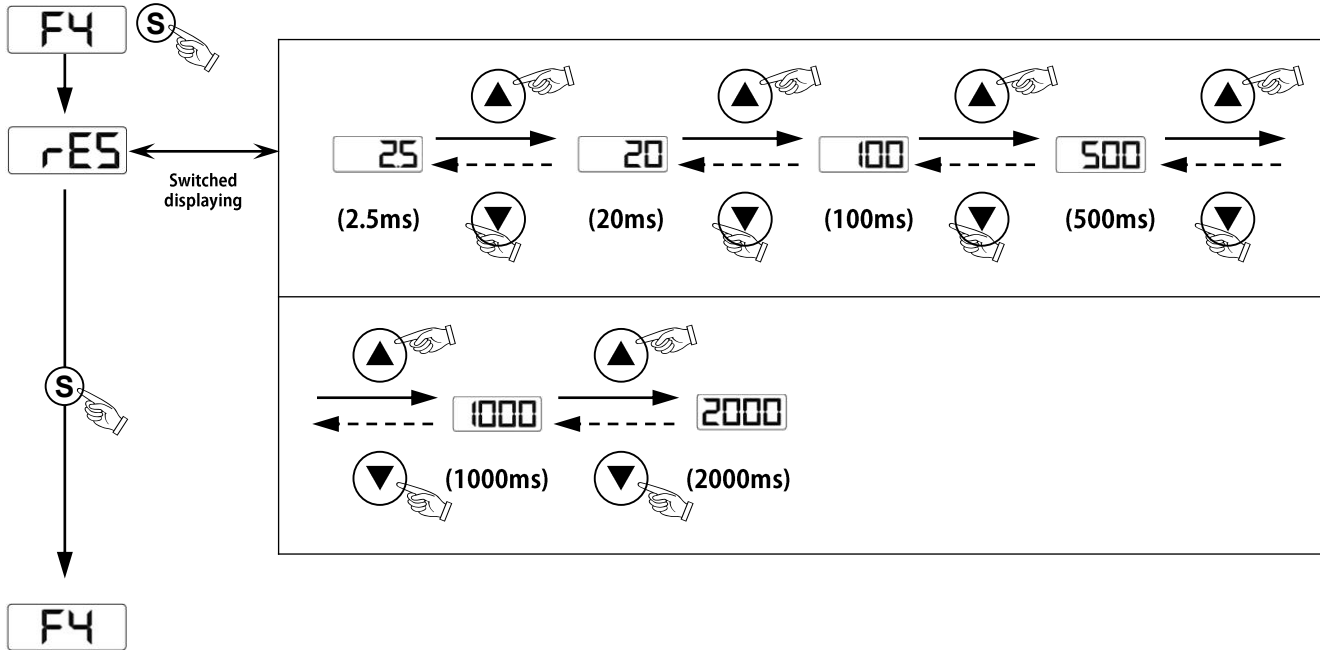
- Sol** → N/O, N/C type selection for vacuum solenoid valve
- H 1** → Set vacuum level (upper limit) for vacuum solenoid valve Off (=Air-saving ON)
- H 2** → Set vacuum level (lower limit) for vacuum solenoid valve ON (=Air-saving OFF)
- H 3** → Function of preventing the H2 value from being set below the lower limit value of h1.

Specifications subject to change without notice.



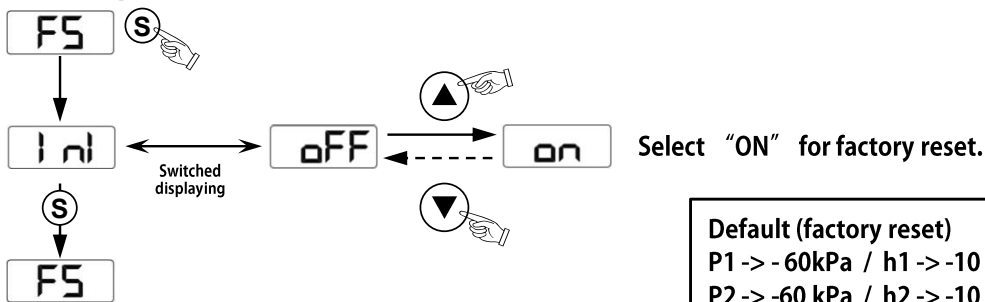
Response Time Setting Mode

Press " **S** " setting button for 3 seconds - to enter the main set menu



Factory Reset Mode

Press " **S** " setting button for 3 seconds - to enter the main set menu

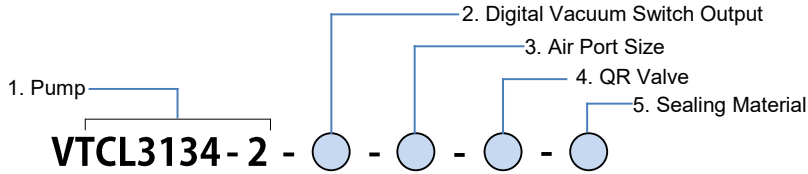


Zero Point Setting

Press the **▲** + **▼** button at the same time until the "0" is shown

Specifications subject to change without notice.

Build an Ordering No.



1. Pump	Description	Ordering No.	ETC
	Turtle Pump, VC303 1EA installed, Vacuum Filter, 2 Fold Silencer	VTC3031-2	
	Turtle Pump, VC302 1EA installed, Vacuum Filter	VTC3021-2	
	Turtle Pump, VC303 2EA installed, Vacuum Filter, 2 Fold Silencer	VTC3032-2	
	Turtle Pump, VC302 2EA installed, Vacuum Filter	VTC3022-2	
	Turtle Pump, VCL303 1EA installed, Vacuum Filter, 2 Fold Silencer	VTCL3031-2	
	Turtle Pump, VCL302 1EA installed, Vacuum Filter	VTCL3021-2	
	Turtle Pump, VCL303 2EA installed, Vacuum Filter, 2 Fold Silencer	VTCL3032-2	
	Turtle Pump, VCL302 2EA installed, Vacuum Filter	VTCL3022-2	
	Turtle Pump, VC303 1EA installed, Vacuum Filter, Plug	VTC3031P-2	
	Turtle Pump, VC303 2EA installed, Vacuum Filter, Plug	VTC3032P-2	
	Turtle Pump, VCL303 1EA installed, Vacuum Filter, Plug	VTCL3031P-2	
	Turtle Pump, VCL303 2EA installed, Vacuum Filter, Plug	VTCL3032P-2	
	Turtle Pump, VC303 4EA installed, Vacuum Filter, Silencer	VTC3134-2	
	Turtle Pump, VC303 3EA installed, Vacuum Filter, Silencer	VTC3133-2	
	Turtle Pump, VC303 2EA installed, Vacuum Filter, Silencer	VTC3132-2	
	Turtle Pump, VC302 4EA installed, Vacuum Filter, Silencer	VTC3124-2	
	Turtle Pump, VC302 3EA installed, Vacuum Filter, Silencer	VTC3123-2	
	Turtle Pump, VC302 2EA installed, Vacuum Filter, Silencer	VTC3122-2	
	Turtle Pump, VCL303 4EA installed, Vacuum Filter, Silencer	VTCL3134-2	
	Turtle Pump, VCL303 3EA installed, Vacuum Filter, Silencer	VTCL3133-2	
	Turtle Pump, VCL303 2EA installed, Vacuum Filter, Silencer	VTCL3132-2	
	Turtle Pump, VCL302 4EA installed, Vacuum Filter, Silencer	VTCL3124-2	
	Turtle Pump, VCL302 3EA installed, Vacuum Filter, Silencer	VTCL3123-2	
	Turtle Pump, VCL302 2EA installed, Vacuum Filter, Silencer	VTCL3122-2	
2. Digital Vacuum Switch Output	Description	Ordering No.	ETC
	ECO-Control Pump, NPN Type	EC	
	ECO-Control Pump, PNP Type	ECP	
3. Air Port Size	Description	Ordering No.	ETC
	G1/4" Port	14	
	Ø10 one-touch hose fitting type	10	

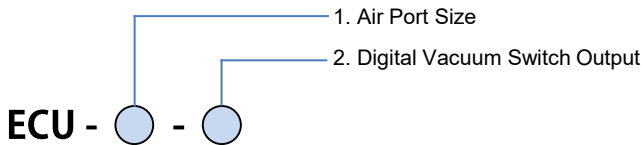
Specifications subject to change without notice.

Build an Ordering No.

4. QR Valve	Description	Ordering No.	ETC
	No QR Valve	Blank	
	QR Valve	Q	

5. Sealing Material	Description	Ordering No.	ETC
	NBR	Blank	
	VITON	V	
	EPDM	E	

Build an Ordering No. (spare for Eco Turtle Pump)



1. Air Port Size	Description	Ordering No.	ETC
	G1/4" Port	14	
	Ø10 one-touch hose fitting type	10	

2. Digital Switch Output	Description	Ordering No.	ETC
	ECU, NPN Type	EC	
	ECU, PNP Type	ECP	

Specifications subject to change without notice.