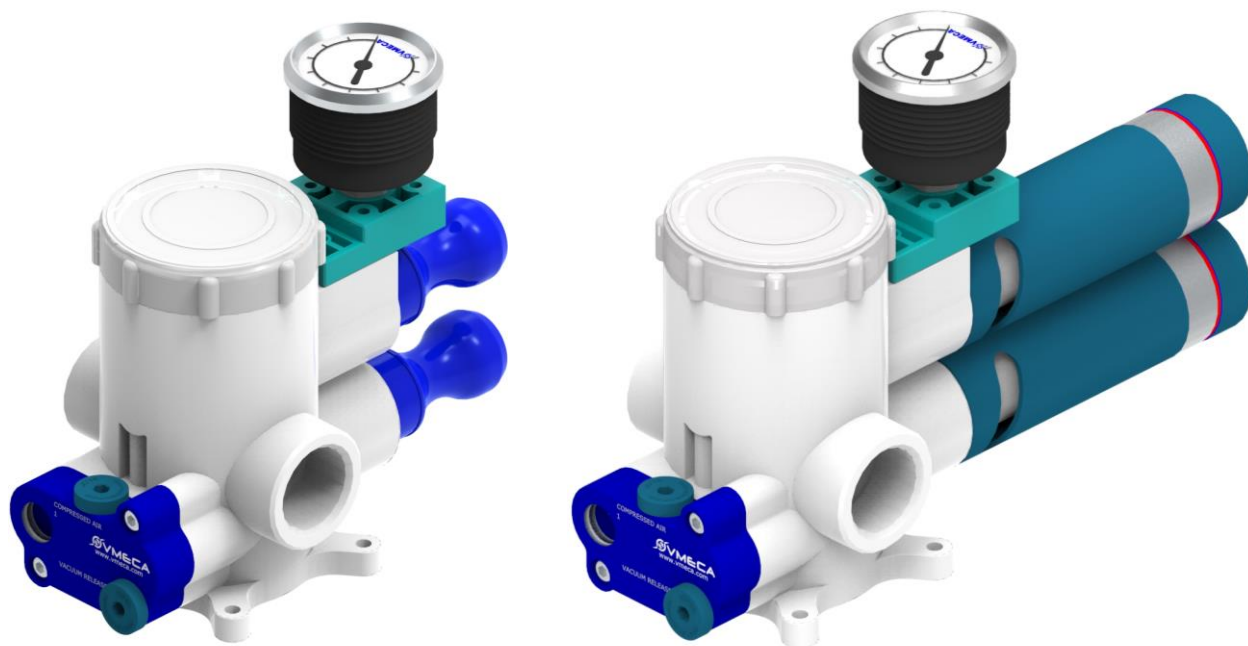


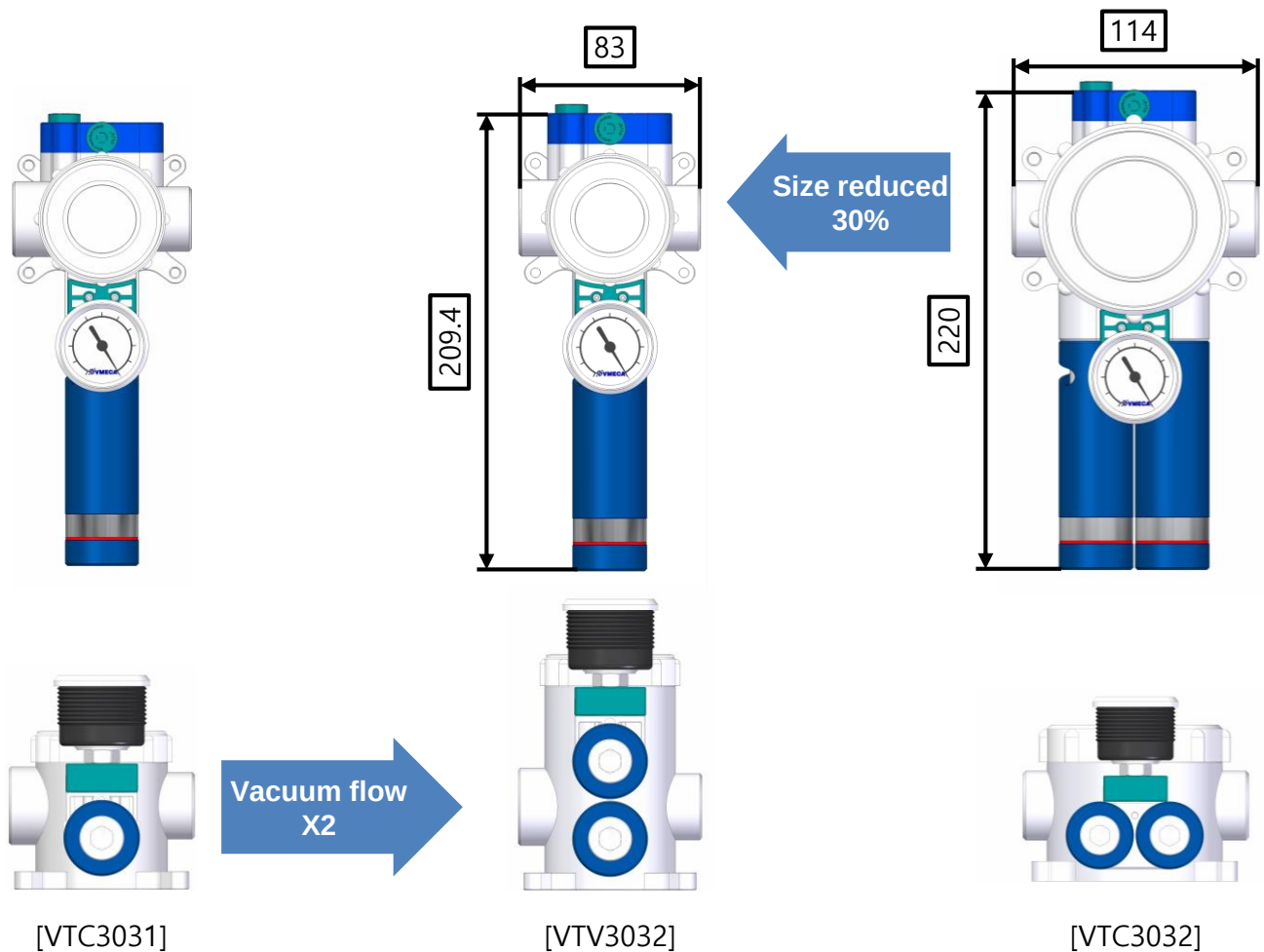


TURTLE PUMP

VTV Series

Features

- Filter integrated
- Suitable for handling porous objects with high vacuum flow
- Reliable performance despite inconsistent compressed air pressure
- Large filtration capacity has vacuum filter integrated and its auto-cleaning function
- Twofold Silencer
- Fast response
- Two cartridges can be inserted and same width as VTC3031 series



- ✓ Same width with VTC3031 and double vacuum flow with a (1) more cartridge.
- ✓ Suitable for restricted installation space due to 30% size reduce.

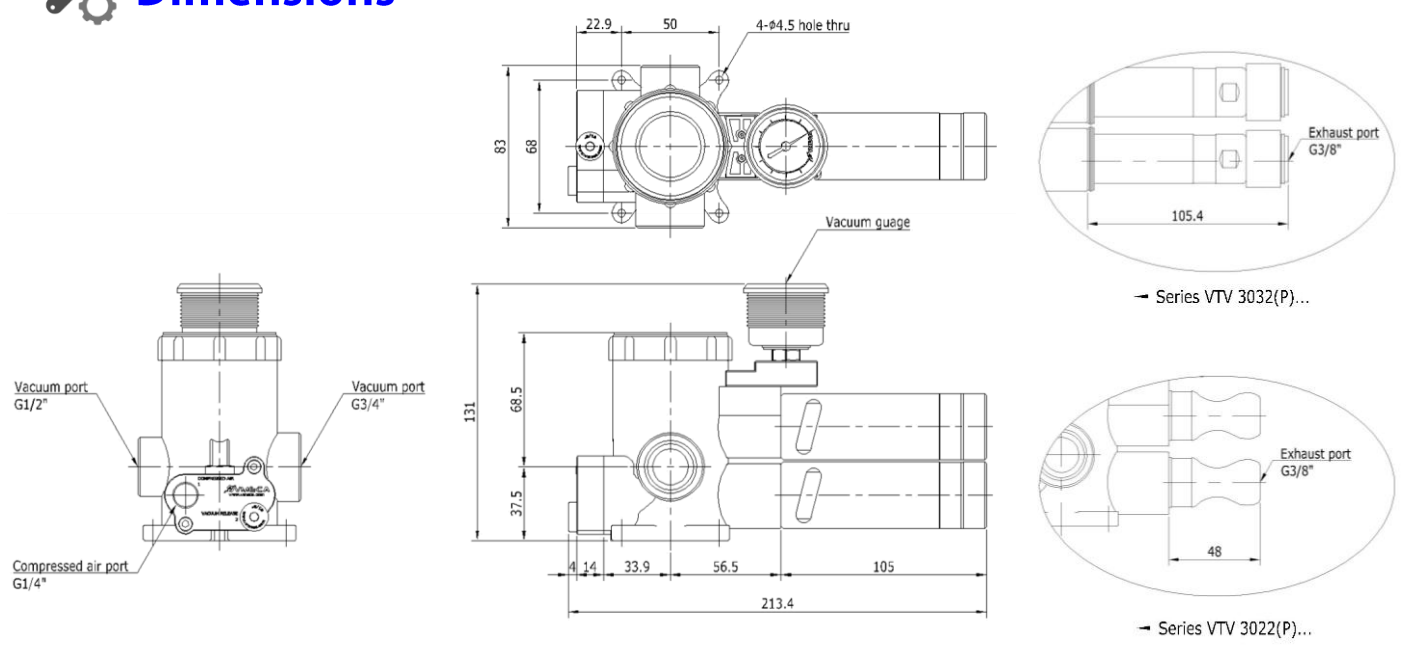
 Specifications

Description	VTV3022	VTVL3022	VTV3032	VTVL3032
Max. Vacuum level	-92 kPa	-75 kPa	-92 kPa	-75 kPa
Open Vacuum flow	342 NI/min	400 NI/min	682 NI/min	724 NI/min
Max. Feed pressure	7 bar			
Temperature	-20 ~ 80 °C			
Noise level	50 ~ 60 dbA			

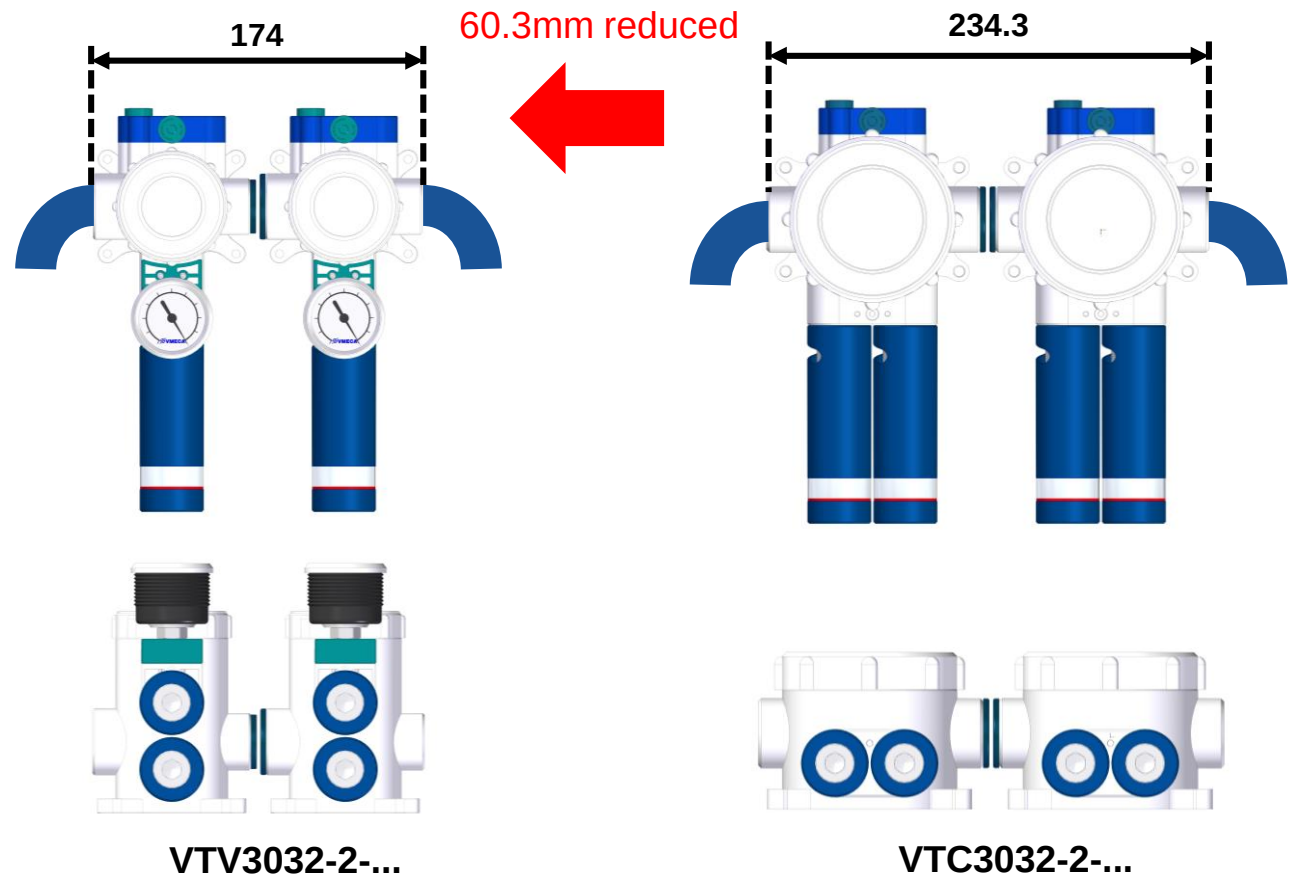
 Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
VTV3022	75	2.2	328	245	176	106	62.8	57	33	9.2	-	-
	92	3	340	304	212	128	66	64	44	23	12.8	3.8
	92	4	342	308	255	188	138	86	46.6	34.6	13.8	4.2
VTVL3022	60	4	376	316	220	140	92	56	13.6	-	-	-
	70	5	390	352	260	164	100	75	46.	23.8	-	-
	75	6	400	366	308	200	104	76	64	44	-	-
VTV3032	75	2.2	604	245	176	106	62.8	57	33	92	-	-
	92	3	676	304	212	128	66	64	44	33	12.8	3.8
	92	4	682	308	255	188	138	86	46.6	34.6	13.8	4.2
VTVL3032	60	4	604	352	220	140	92	56	13.6	-	-	-
	70	5	688	392	260	164	100	75	46	23.8	-	-
	75	6	724	415	308	200	104	76	64	44	-	-

Dimensions

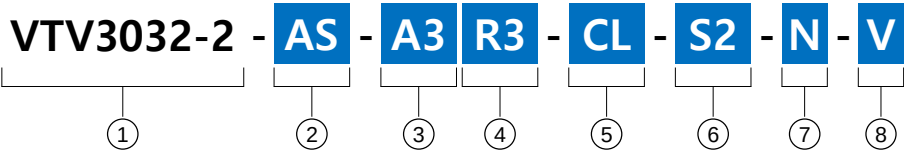


Comparison



Build an Ordering No.

Turtle Pump



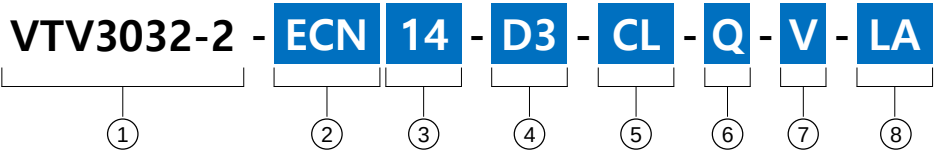
1. Basic pump	Description	Symbol
	VTV Midi pump, 3-stage, 2-cartridge, Vacuum filter, Two-fold silencer	VTV3032-2
	VTV Midi pump, 2-stage, 2-cartridge, Vacuum filter	VTV3022-2
	VTV Midi pump, 3-stage, 2-'L'cartridge, Vacuum filter, Two-fold silencer	VTVL3032-2
	VTV Midi pump, 2-stage, 2-'L'cartridge, Vacuum filter	VTVL3022-2
	VTV Midi pump, 3-stage, 2-cartridge, Vacuum filter, Plug	VTV3032P-2
	VTV Midi pump, 3-stage, 2-'L'cartridge, Vacuum filter, Plug	VTVL3032P-2
2. Air saving kit	Description	Symbol
	No air saving kit	Blank
	Air saving kit without air control valve	AS
	Air saving kit integrated with air control valve	ASV
3. Air control valve	Description	Symbol
	No air control valve	Blank
	Air control valve, AC110V	A1
	Air control valve, AC220V	A2
	Air control valve, DC24V	A3
	Double solenoid valve, AC110V	D1
	Double solenoid valve, AC220V	D2
	Double solenoid valve, DC24V	D3
4. Vacuum release valve	Description	Symbol
	No vacuum release valve	Blank
	Vacuum release valve, AC110V	R1
	Vacuum release valve, AC220V	R2
	Vacuum release valve, DC24V	R3

Build an Ordering No.

5. Valve solenoid terminal	Description	Symbol
	Solenoid Terminal, DIN, No LW	DN
	Solenoid Terminal, DIN, Lamp, No LW	DL
	Solenoid Terminal, Conn, Lamp & 0.3m LW: Only available with DC24V	CL
	Solenoid Terminal, DIN, 2 in 1 Bus cable: Not available with Double Solenoid Valve	2B
	Solenoid Terminal, DIN, 3 in 1 Bus cable: Not available with Double Solenoid Valve	3B
	Solenoid Terminal, DIN, 4 in 1 Bus cable: Not available with Double Solenoid Valve	4B
	- 3B and 4B are available only with DC24V and S2 or S2P vacuum switch	
6. Vacuum switch	Description	Symbol
	No vacuum switch	Blank
	Digital switch, No analog supply, M8-4pins, NPN	S2
	Digital switch, No analog supply, M8-4pins, PNP	S2P
	Digital switch, No analog supply, Grommet, NPN	SG2
	Digital switch, No analog supply, Grommet, PNP	SG2P
	Digital switch, Analog supply, Grommet, NPN	SG3
	Digital switch, Analog supply, Grommet, PNP	SG3P
7. Non-return valve	Description	Symbol
	No non-return valve	Blank
	Non-return valve: No need with Air saving kit	N
8. Sealing material	Description	Symbol
	NBR	Blank
	VITON	V
	EPDM	E

Build an Ordering No.

Eco Turtle Pump



1. Basic pump	Description	Symbol
	VTV Midi pump, 3-stage, 2-cartridge, Vacuum filter, Two-fold silencer	VTV3032-2
	VTV Midi pump, 2-stage, 2-cartridge, Vacuum filter	VTV3022-2
	VTV Midi pump, 3-stage, 2-'L'cartridge, Vacuum filter, Two-fold silencer	VTVL3032-2
	VTV Midi pump, 2-stage, 2-'L'cartridge, Vacuum filter	VTVL3022-2
	VTV Midi pump, 3-stage, 2-cartridge, Vacuum filter, Plug	VTV3032P-2
	VTV Midi pump, 3-stage, 2-'L'cartridge, Vacuum filter, Plug	VTVL3032P-2
2. Digital vacuum switch output	Description	Symbol
	ECO-Control Pump, NPN type	ECN
	ECO-Control Pump, PNP type	ECP
3. Air port size	Description	Symbol
	G1/4" Port, Air control : Normal Closed	14
	Ø10 One touch hose fitting type, Air control : Normal Closed	10
	G1/4" Port, Air control : Normal Open	14(N.O)
	Ø10 One touch hose fitting type, Air control : Normal Open	10(N.O)
4. Air control valve	Description	Symbol
	No air control valve	Blank
	Double solenoid valve, AC110V	D1
	Double solenoid valve, AC220V	D2
	Double solenoid valve, DC24V	D3
5. Valve solenoid terminal	Description	Symbol
	Solenoid Terminal, DIN, No LW	DN
	Solenoid Terminal, DIN, Lamp, No LW	DL
	Solenoid Terminal, Conn, Lamp & 0.15m LW	CL

Build an Ordering No.

6. QR valve	Description	Symbol
	No QR Valve	Blank
	QR Valve	Q
7. Sealing material	Description	Symbol
	NBR	Blank
	VITON	V
	EPDM	E
8. Memory valve	Description	Symbol
	DC24V, Solenoid Terminal, DIN, Lamp, 0.6m LW	LA
	DC24V, M12 x 8pin Bus Cable	LA1C