Minimultiple pump

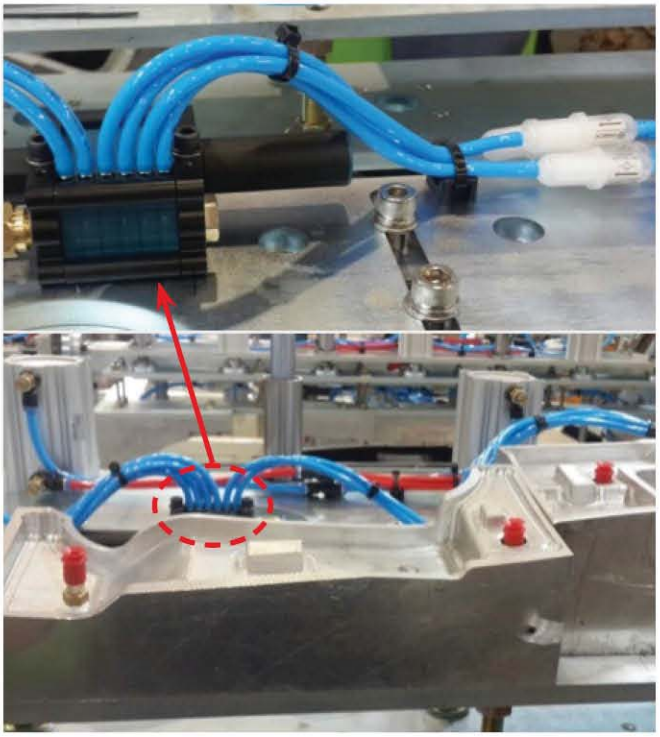
Features and Strengths

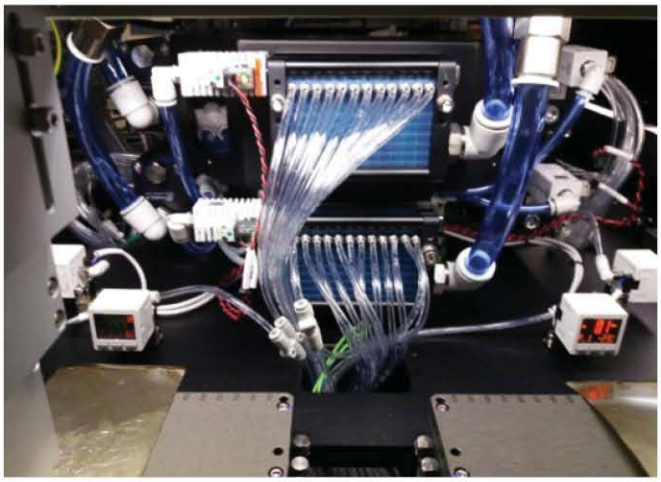
Individual vacuum operation
Compact size and light weight

Advantages

Reliable performance with Individual vacuum operation
Long-life time
Compact size and light weight

Application





Overall of specification

Model	Max. Vacuum level (- kPa)	Max. Feed Pressure (bar)	Max. Vacuum Flow (Nl/m)	Air Consumption (Nl/m)
VTM5	85	7	27	15 ~ 21
VTM10	85	7	35	30 ~ 42
VTX5	92	7	24	21.6 ~ 24
VTX10	92	7	32	43.2 ~ 48

VTX5 / VTM5

Features and Strengths

· Individual vacuum operation
· Multi-stage ejector
· Manifold type - Maximum 16stacks
· Quick response time
· Compact size and light weight

Specifications

Description	VTX5	VTM5
Max. Vacuum level	-92 kPa	-85 kPa
Open Vacuum flow	24 Nl/min	27 Nl/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	50 ~ 65 dbA	50 ~ 65 dbA
Weight	37g	37g

Vacuum Flow

Model	Max. vacuum (-kPa)	Vacuum flow (Nl/min) at different vacuum levels (-kPa)									
		0	10	20	30	40	50	60	70	80	90
VTX5	92	24	13	9	8	7	5	4	2.7	1.2	0.45
VTM5	85	27	16	13	12	11	8	6	2.4	0.66	-

Evacuation Time

Model	Air Consumption (Nl/min)	Vacuum flow (Nl/min) at different vacuum levels (-kPa)									
		0	10	20	30	40	50	60	70	80	90
VTX5	21.6 ~ 24	0.258	0.796	1.516	2.4	3.38	4.91	6.896	10.16	19.19	
VTM5	15 ~ 21	0.218	0.556	1.00	1.576	2.356	3.44	5.27	10.216	-	

VTX10 / VTM10

Features and Strengths

· Individual vacuum operation
· Multi-stage ejector
· Manifold type - Maximum 16stacks
· Quick response time
· Compact size and light weight

Specifications

Description	VTX10	VTM10
Max. Vacuum level	-92 kPa	-85 kPa
Open Vacuum flow	32 Nl/min	35 Nl/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	50 ~ 65 dbA	50 ~ 65 dbA
Weight	37g	37g

Vacuum Flow

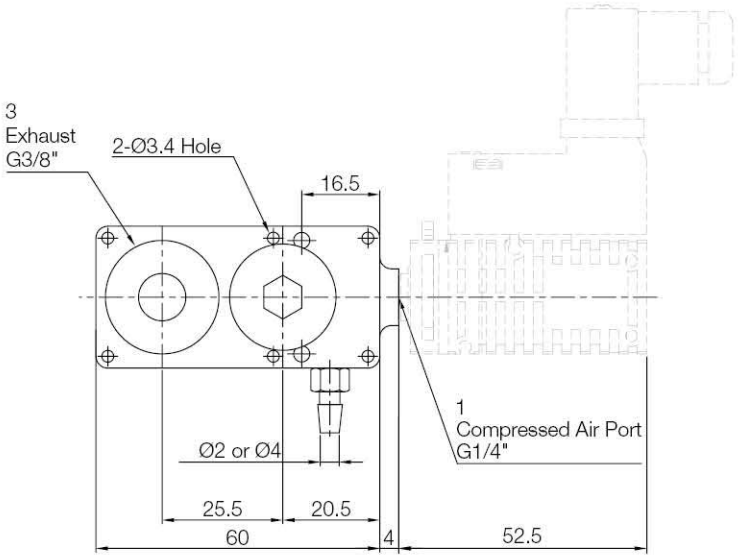
Model	Max. vacuum (-kPa)	Vacuum flow (Nl/min) at different vacuum levels (-kPa)									
		0	10	20	30	40	50	60	70	80	90
VTX10	92	32	21	17	15	14	11	9	5.4	2.4	0.9
VTM10	85	35	29	25	23	19	16	12	4.8	1.32	-

Evacuation Time

Model	Air Consumption (Nl/min)	Vacuum flow (Nl/min) at different vacuum levels (-kPa)									
		0	10	20	30	40	50	60	70	80	90
VTX10	43.2 ~ 48	0.129	0.398	0.758	1.2	1.78	2.455	3.455	5.08	9.594	
VTM10	30 ~ 42	0.109	0.278	0.50	0.788	1.178	1.72	2.635	5.158	-	

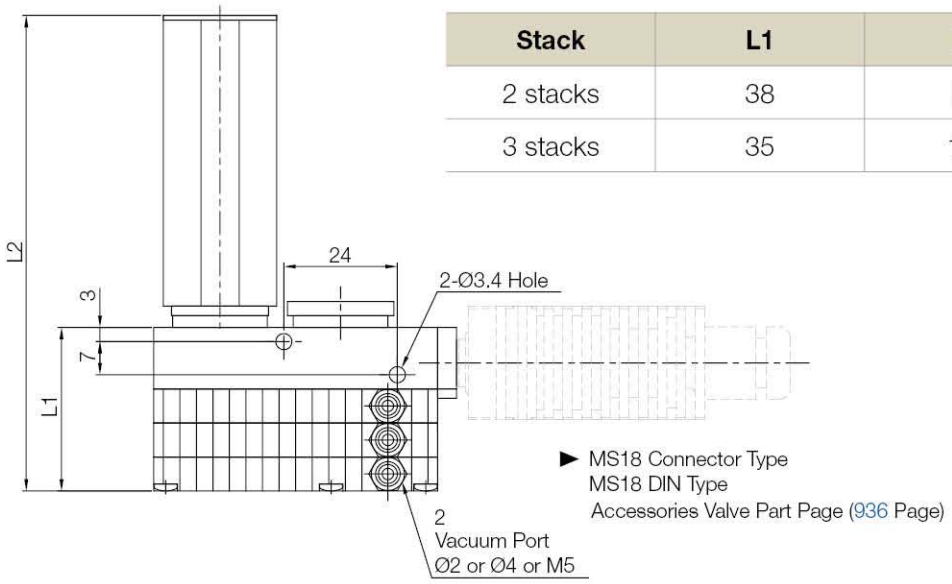
Dimension

[Unit : mm]



[Unit : mm]

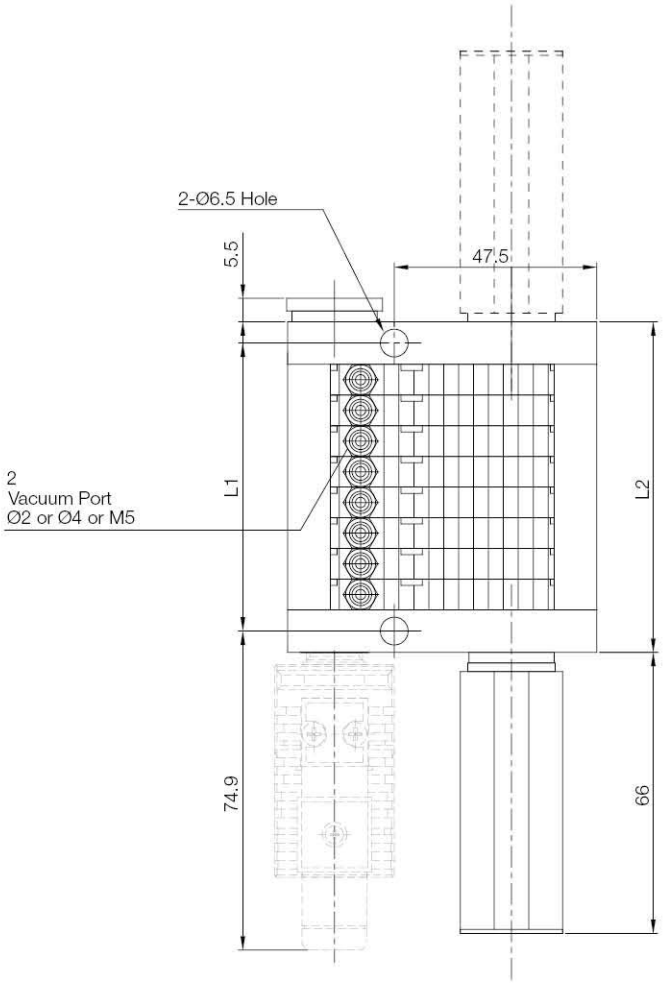
Stack	L1	L2
2 stacks	38	94
3 stacks	35	101

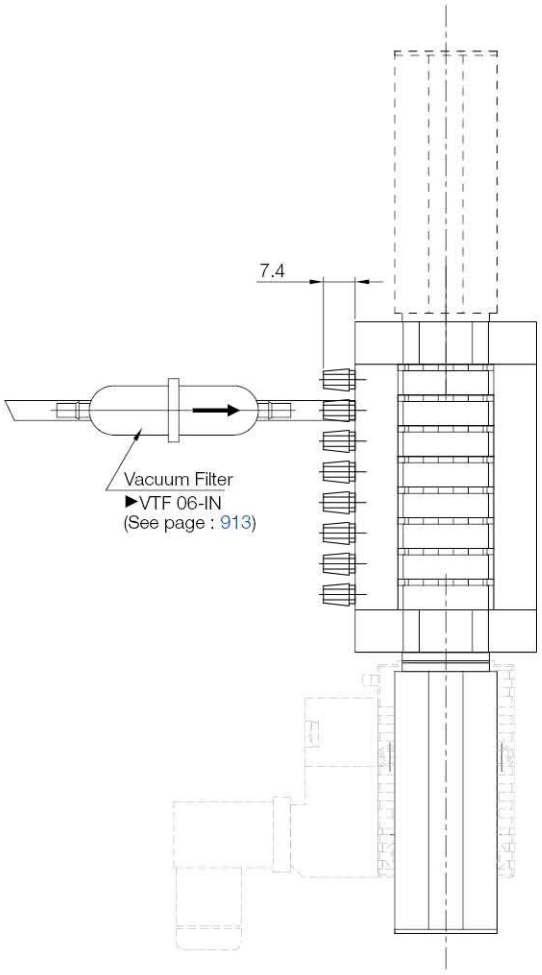


► MS18 Connector Type
MS18 DIN Type
Accessories Valve Part Page (936 Page)

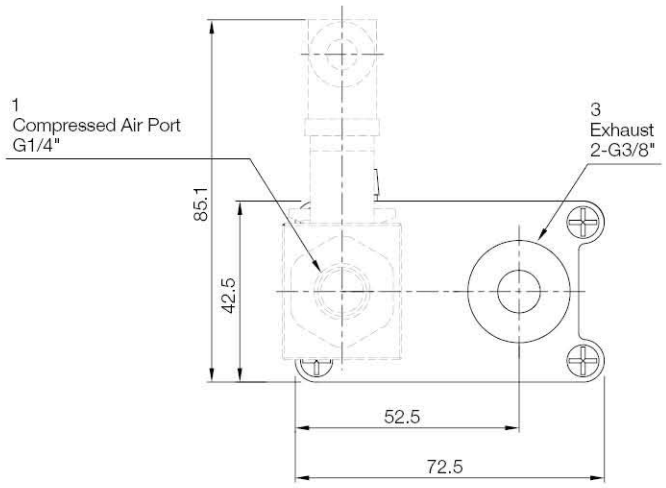
Dimension

[Unit : mm]





► MS18 Connector Type
MS18 DIN Type
Accessories Valve Part Page (936 Page)

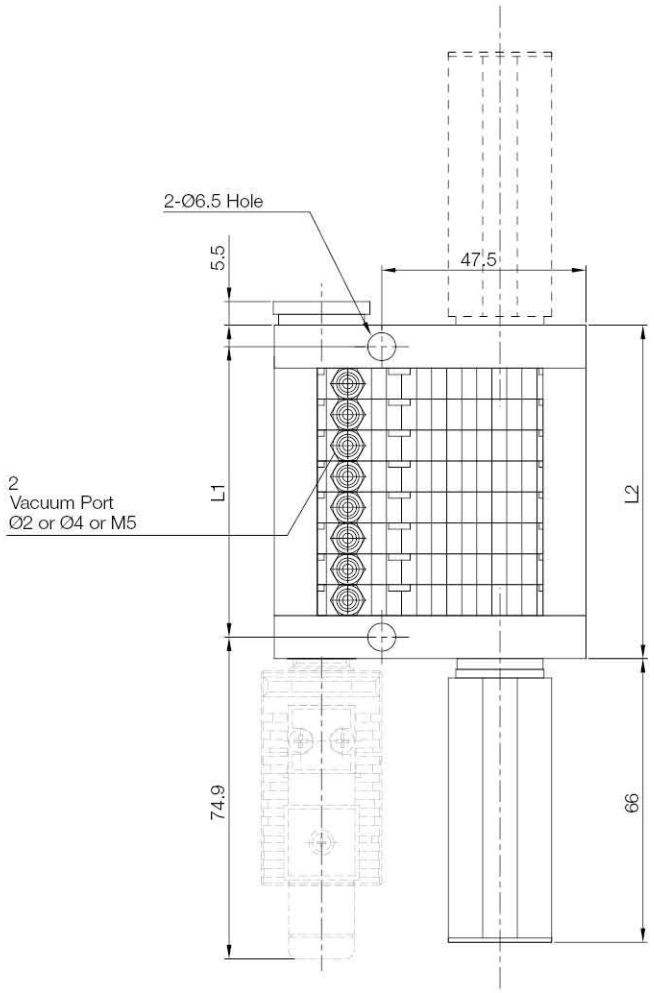


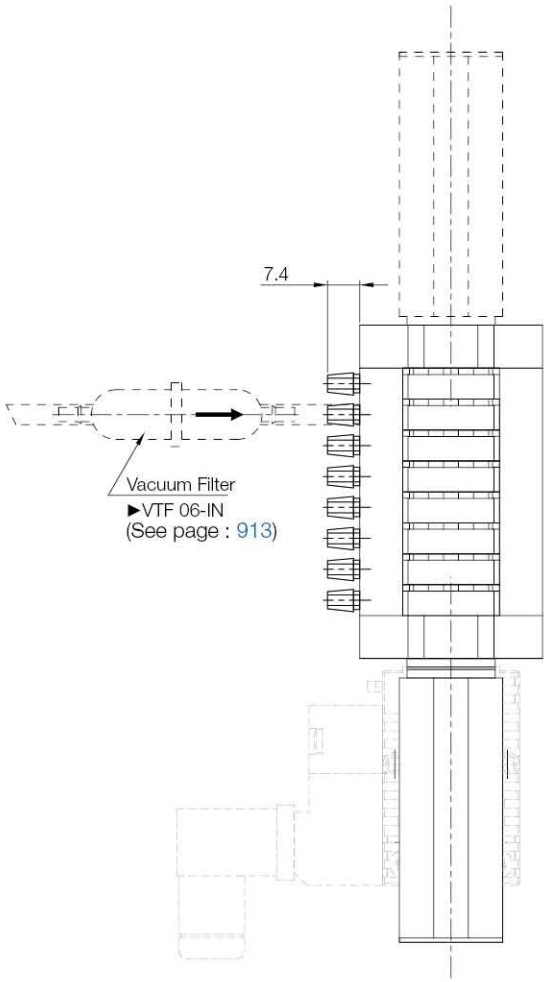
[Unit : mm]

Stack	L1	L2
4 stacks	38.3	48.3
6 stacks	53	63
8 stacks	67.5	77.5
10 stacks	82	92
12 stacks	96	106
14 stacks	111	121
16 stacks	125.2	135.2

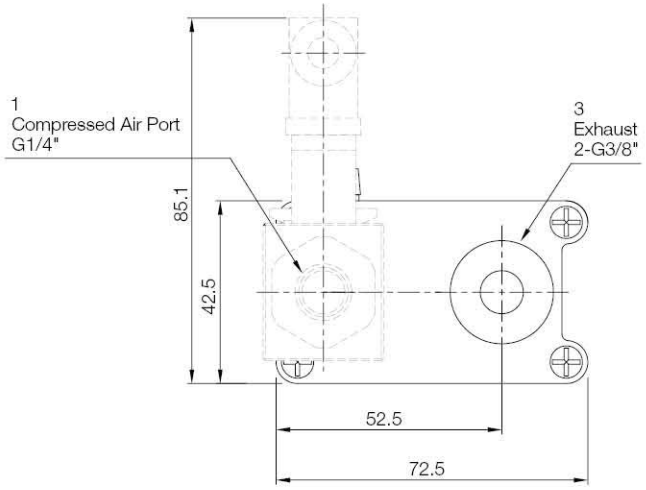
Dimension

[Unit : mm]

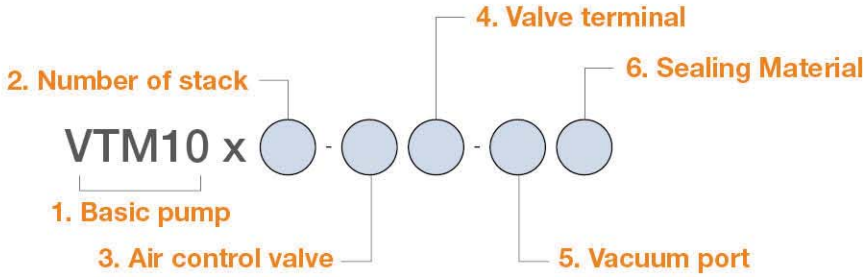




► VMS18 Connector Type
VMS18 DIN Type
Accessories Valve Part Page (936 Page)



Build an Ordering No.



1. Basic pump	Description	Symbol
	Minimultiple Vacuum Pump - VTX5 series	VTX5
	Minimultiple Vacuum Pump - VTX10 series: Maximum stack up to 12 stacks	VTX10
	Minimultiple Vacuum Pump - VTM5 series	VTM5
	Minimultiple Vacuum Pump - VTM10 series: Maximum stack up to 12 stacks	VTM10

2. Number of stack	Description	Symbol
	2 stacks	2
	4 stacks	4
	6 stacks	6
	8 stacks	8
	10 stacks	10
	12 stacks	12
	14 stacks	14
	16 stacks	16
	- VTX5 and VTM5 with 12~16 stacks includes 2 silencers	
	- VTX10 and VTM10 with above 6~12 stacks includes 2 silencers	

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

4. Valve 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

5. Vacuum port	Description	Symbol
	Ø2 Inner diameter of tube	2
	Ø4 Inner diameter of tube	4

6. Sealing material	Description	Symbol
	NBR	Blank
	VITON	V
	EPDM	E