

VSMR203

Features and Strengths

- Efficient individual and independent point-of-use vacuum
- Highly operational reliability despite fluctuating or low compressed-air pressure
- Extremely quick response
- Quick release system without release control valve
- Available for multiple connection ports



Specifications

Description	VSMR203
Max. Vacuum level	-93 kPa
Open Vacuum flow	85.8 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	55 ~ 65 dBA

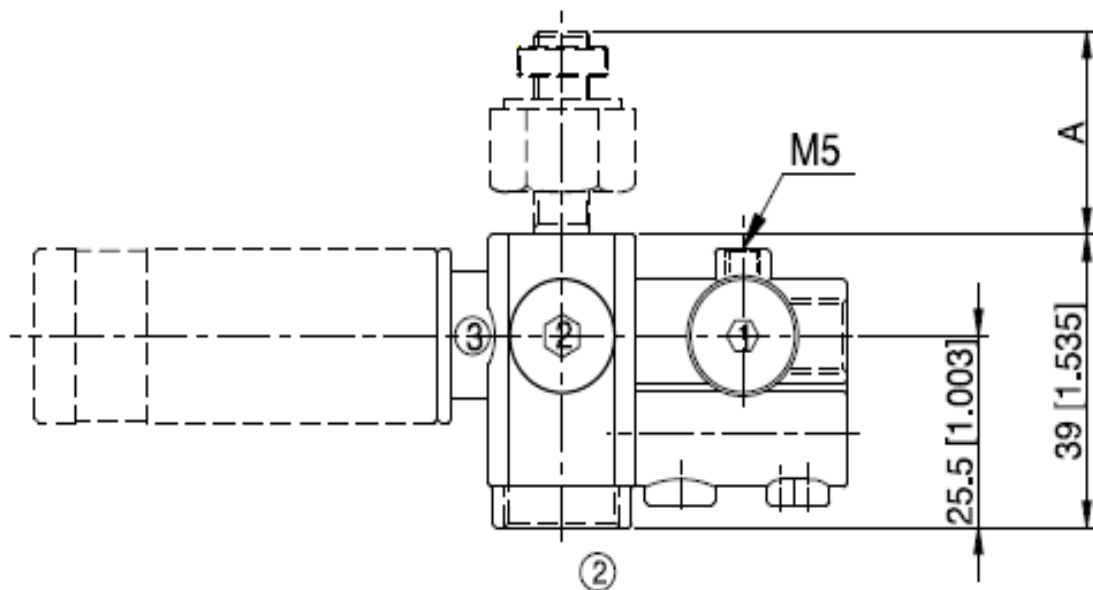
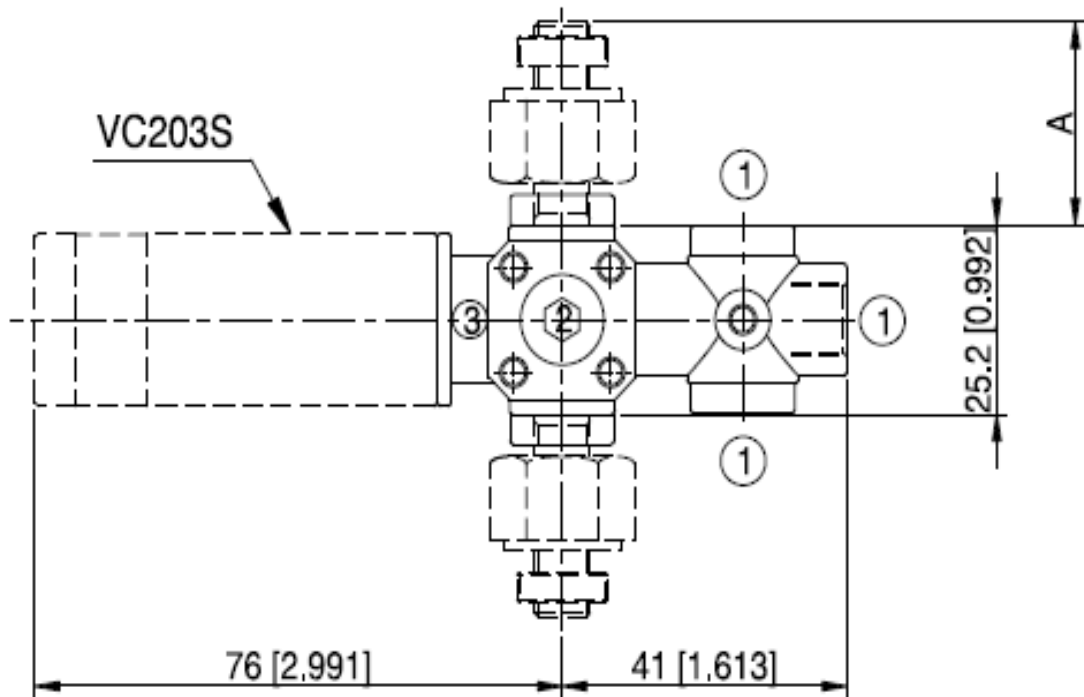
Vacuum Flow

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
VSMR203	49	1.7	55	23.2	15.5	12.6	6.1	-	-	-	-	-
	65	2.2	68	31	16.5	15.5	13.8	9	3.5	-	-	-
	93	3.14	84	37.5	26	16	15.2	12.3	10	7.2	4	-
	91	4.0	84.5	40	33.2	22.6	15.8	12	9.2	7.3	2.9	-

Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
VSMR203	1.7	21	0.13	0.40	0.79	1.57	-	-	-	-	-
	2.2	24.5	0.08	0.39	0.59	0.85	1.10	0.96	-	-	-
	3.14	33	0.06	0.28	0.51	1.01	1.18	1.29	1.73	3.00	-
	4.0	40	0.08	0.24	0.50	0.71	0.85	1.18	1.41	3.05	-

Dimensions



[Unit : mm]

VSMR202

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Specifications

Description	VSMR202
Max. Vacuum level	-90 kPa
Open Vacuum flow	42 NI/min
Max. Feed pressure	7 bar
Temperature	-20 ~ 80 °C
Noise level	55 ~ 65 dBA

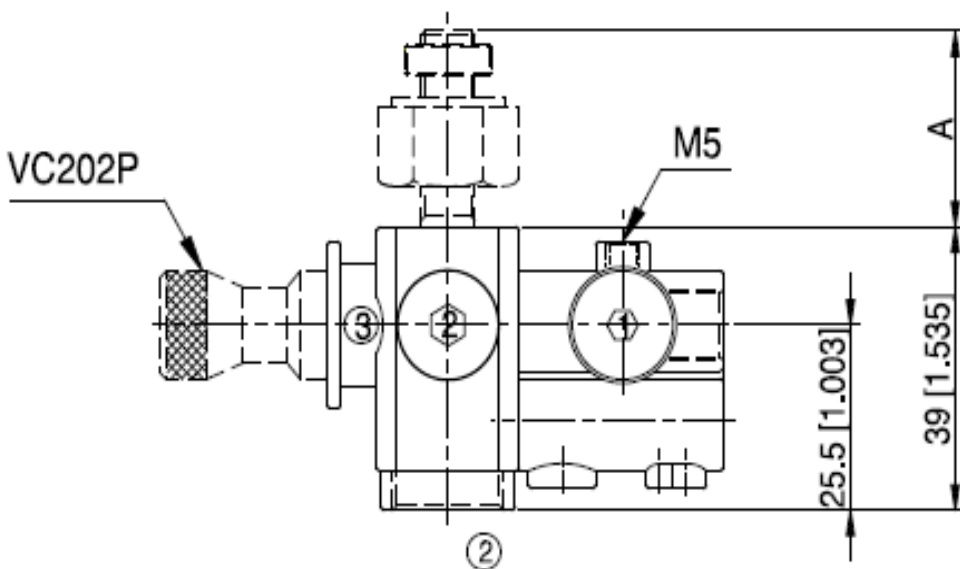
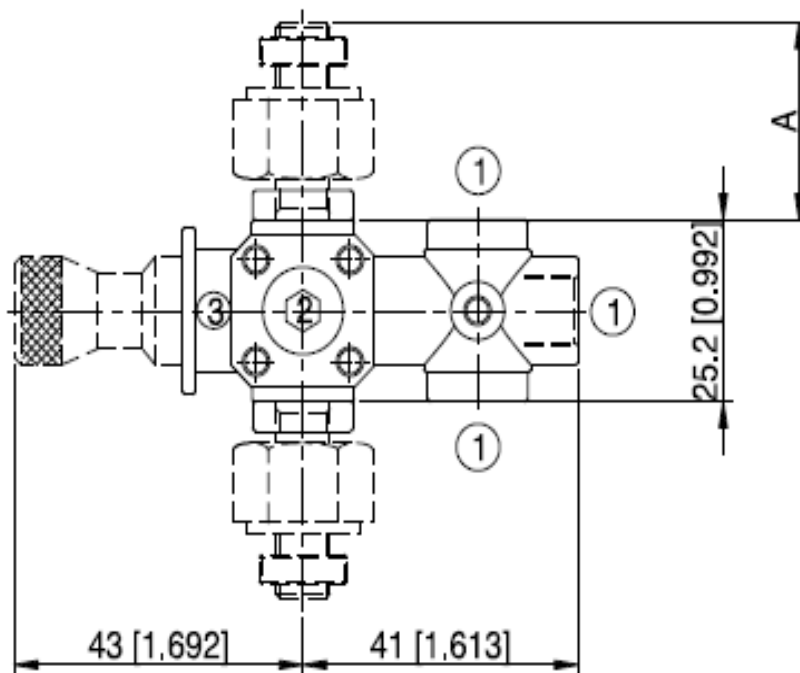
Vacuum Flow

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	
VSMR202	48	1.7	38.5	20	16	12	5.3						
	65	2.2	39	26.5	17.3	15.6	13.5	8.4	2.6				
	91	3.14	44	36	24.5	16.5	16	13.8	10	7	3.5		
	89	4.0	42	38.8	28.5	21.2	15.8	12.2	9.5	7	2.4		

Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)									
			10	20	30	40	50	60	70	80	90	
VSMR202	1.7	22	0.33	0.47	0.89	1.93						
	2.2	25.5	0.20	0.47	0.70	0.92	1.24	1.35				
	3.14	34	0.15	0.39	0.95	1.03	1.28	1.32	2.12	3.54		
	4.0	40.5	0.15	0.42	0.56	0.80	0.99	1.21	1.46	3.74		

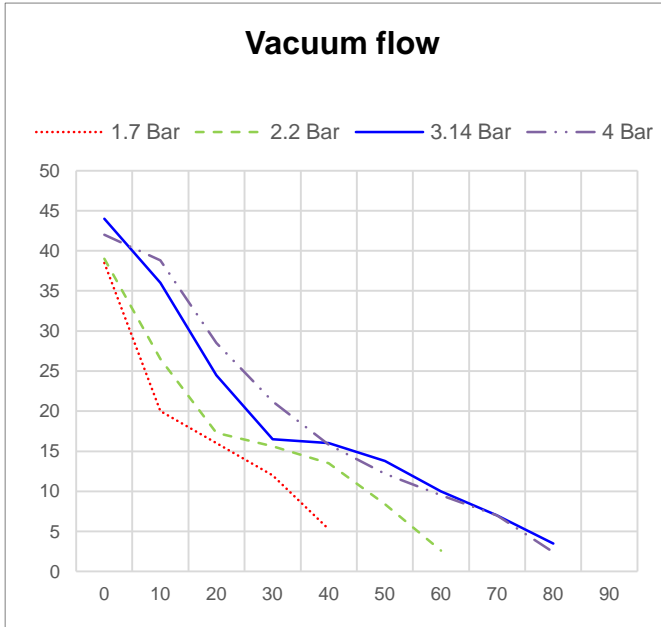
Dimensions



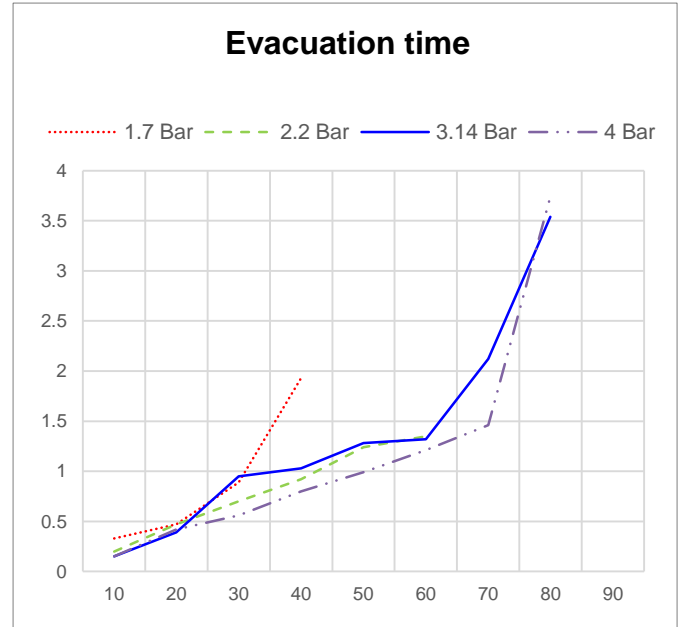
[Unit : mm]

Performance data

VSMR202

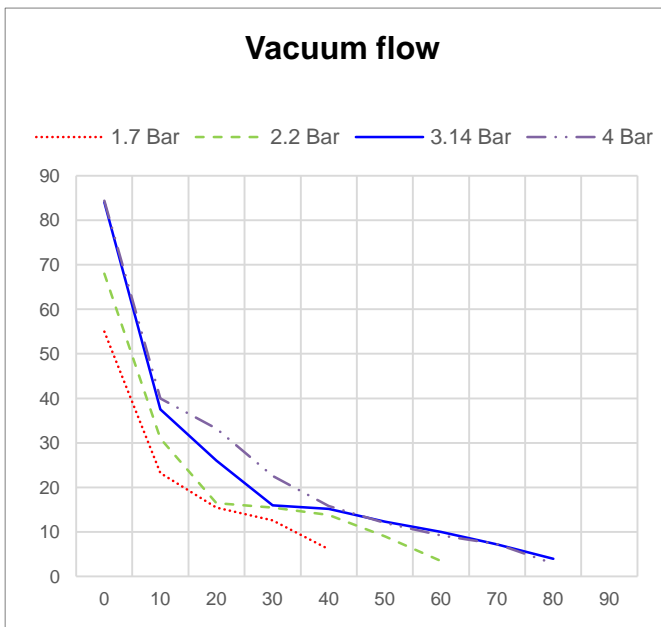


※ Vacuum flow at different vacuum level

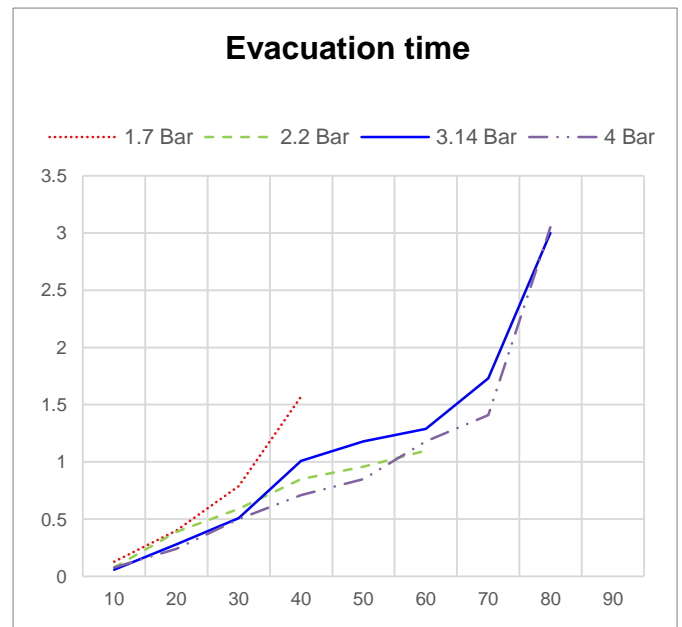


※ Time to evacuate a volume at different vacuum level

VSMR203

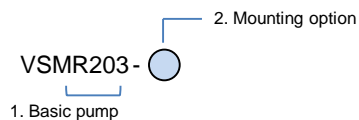


※ Vacuum flow at different vacuum level



※ Time to evacuate a volume at different vacuum level

Build an Ordering No.



1. Basic pump	Description	Ordering No.
	VSMR pump, 2-stage cartridge, Plug	VSMR202
	VSMR pump, 3-stage cartridge, Two-fold silencer	VSMR203

2. Mounting option	Description	Ordering No.
	4x screw M4 top, 5x plug G1/8"(direct mount)	F
	M8 16mm screw top, 4x plug G1/8" incl. mounting kit	MT8
	M8 16mm screw top, 4x plug G1/8" incl. mounting kit	ML8
	M8 16mm screw top, 4x plug G1/8" incl. mounting kit	MR8
	M8 27mm screw top, 4x plug G1/8" incl. profile kit with jam nut	PT8
	M8 27mm screw left, 4x plug G1/8" incl. profile kit with jam nut	PL8
	M8 27mm screw right, 4x plug G1/8" incl. profile kit with jam nut	PR8
	M6 22mm screw top, 4x plug G1/8" incl. profile kit with jam nut	PT6
	M6 22mm screw left, 4x plug G1/8" incl. profile kit with jam nut	PL6
	M6 22mm screw right, 4x plug G1/8" incl. profile kit with jam nut	PR6

Spare Parts – Basic pumps

Model	Description
VSMR202	VSMR pump, 2-stage cartridge, Plug
VSMR203	VSMR pump, 3-stage cartridge, Two-fold silencer

Spare Parts – Mounting

Code	Description
	4x screw M4 top, 5x plug G1/8"(direct mount)
	M8 16mm screw top, 4x plug G1/8" incl. mounting kit
	M8 16mm screw top, 4x plug G1/8" incl. mounting kit
	M8 16mm screw top, 4x plug G1/8" incl. mounting kit
	M8 27mm screw top, 4x plug G1/8" incl. profile kit with jam nut
	M8 27mm screw left, 4x plug G1/8" incl. profile kit with jam nut
	M8 27mm screw right, 4x plug G1/8" incl. profile kit with jam nut
	M6 22mm screw top, 4x plug G1/8" incl. profile kit with jam nut
	M6 22mm screw left, 4x plug G1/8" incl. profile kit with jam nut
	M6 22mm screw right, 4x plug G1/8" incl. profile kit with jam nut

Spare Parts – Cartridges

Model	Description	Available model
VC202	Mini vacuum cartridge, 2-Stage for VSMR202	
VC203	Mini vacuum cartridge, 3-Stagefor VSMR203	

Spare Parts – Plug & Silencer

Model	Description
	Holding plug for VSMR202
	Two-Fold Silencer for VSMR203