



PNEUMAX



VACUUM TECHNOLOGY

CATALOGUE

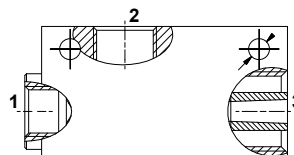
Single stage vacuum generators

Single stage generators, robust reliable and compact suitable for applications which need the required degree of vacuum to be reached quickly with high flow rates.



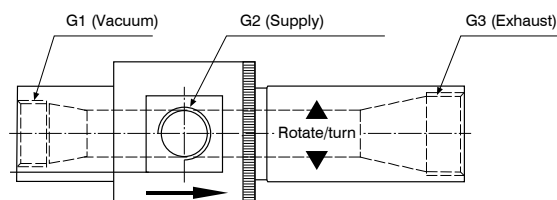
Performance and application

The single stage vacuum generator operates using the Venturi principle. By feeding compressed air into port 1 of the generator, a depression (Vacuum) is generated at port 2 with the air being drawn from port 2 discharged out at port 3. When the compressed supply to port 1 is interrupted, the suction (Vacuum) at port 2 is lost. The optimum inlet pressure is different for each type of single stage generator which ranges from 1 - 6 bar. These generator are generally used in conjunction with suction cups for gripping and the handling of porous and non-porous objects with limited suction flow required.



Adjustable version

Based on the Venturi principle, these differ from traditional ones, infact they have an ejector with a much larger diameter, and are adjustable. This feature makes possible to change the device's flow rate and degree of vacuum without affecting the inlet pressure.

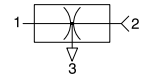
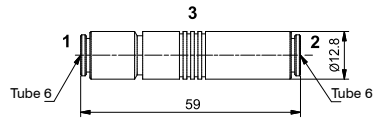


Series 1900

Single stage vacuum generator T06

Ordering code

19T06.S.05.HV.C0

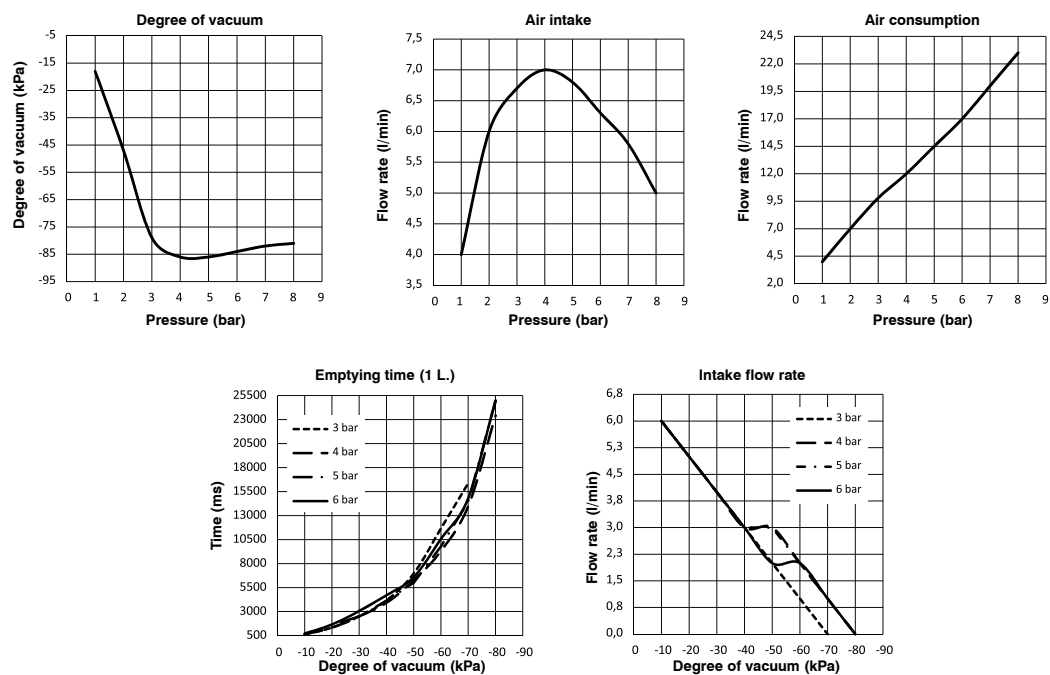


Single stage generators, with operation based on the Venturi principle; their main feature is the presence of feed pressure and connection for the vacuum on the same axis. This makes it possible to connect the suction cups directly to the generator or through the suction cup holder, so therefore still on the same axis with advantages in terms of system layout and simplicity.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	47	86	84
Intake flow rate (l/min)	6	7	6
Air consumption (l/min)	7	12	17

Performance Charts



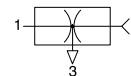
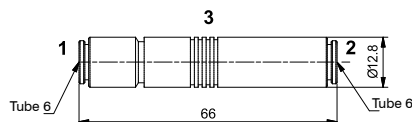
Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	7
Noise (dBA)	68

Single stage vacuum generator T06

Ordering code

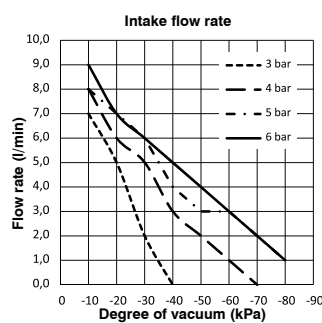
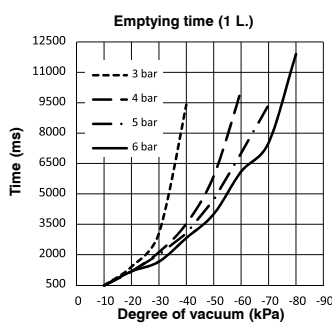
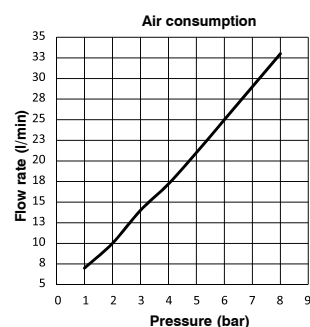
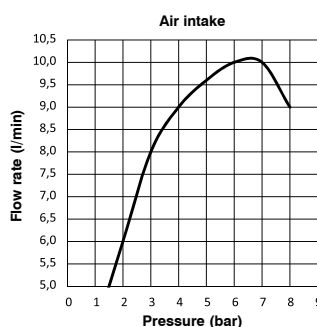
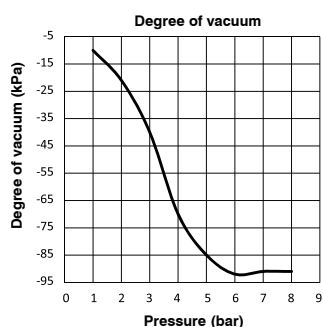
19T06.S.07.HV.C0



Single stage generators, with operation based on the Venturi principle; their main feature is the presence of feed pressure and connection for the vacuum on the same axis. This makes it possible to connect the suction cups directly to the generator or through the suction cup holder, so therefore still on the same axis with obvious advantages in terms of system layout and simplicity.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	21	70	92
Intake flow rate (l/min)	6	9	10
Air consumption (l/min)	10	17	25



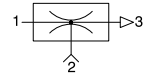
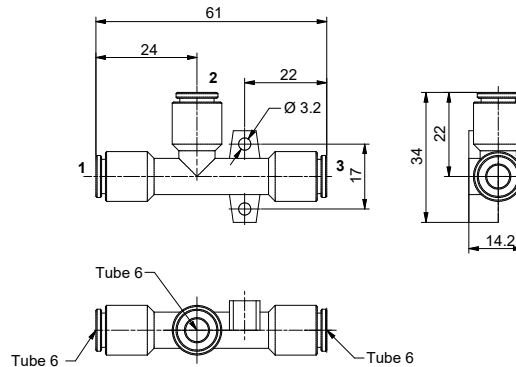
Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	8
Noise (dBA)	68

Single stage vacuum generator T06

Ordering code

19T06.S.07.HV.ZZ

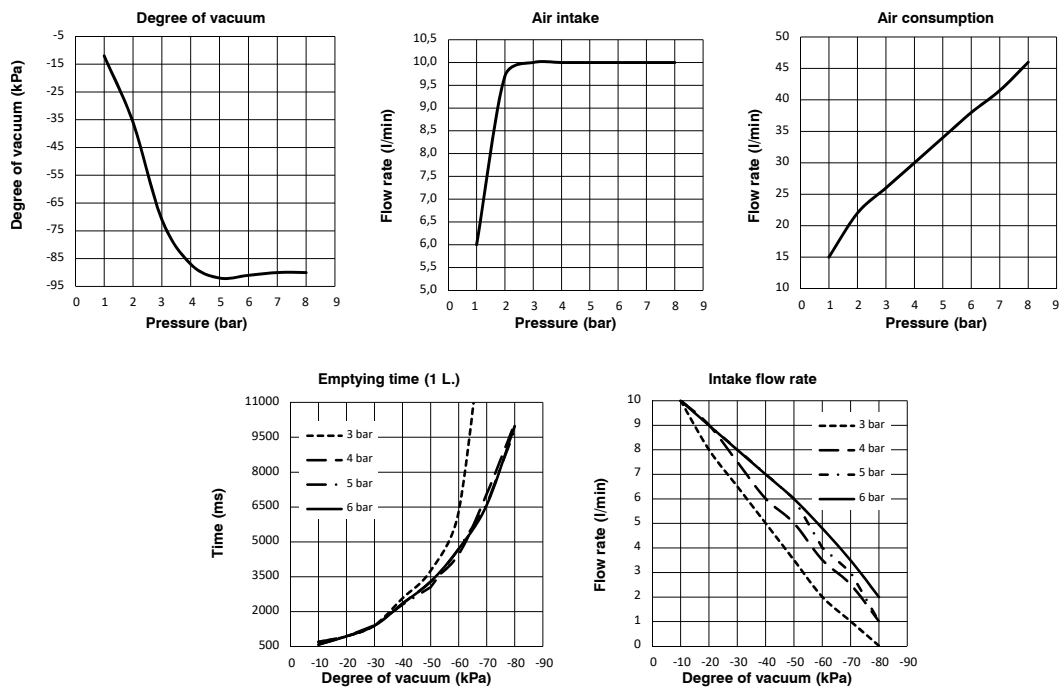


Single stage generators, robust and reliable, with compact dimensions and suitable for applications that need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and can be applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	36	87	91
Intake flow rate (l/min)	10	10	10
Air consumption (l/min)	22	30	38

Performance Charts



Technical characteristics

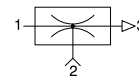
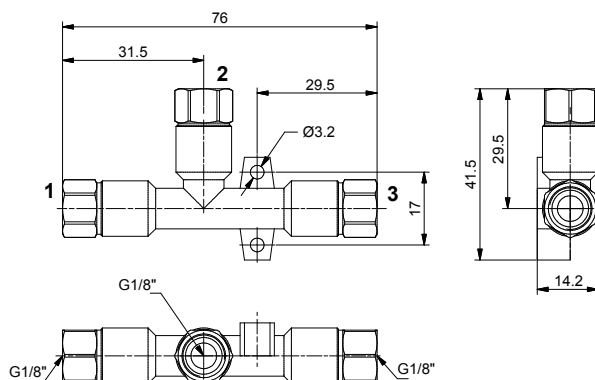
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	12
Noise (dBA)	76

VACUUM GENERATORS

Single stage vacuum generator T18

Ordering code

19T18.S.07.HV.VV

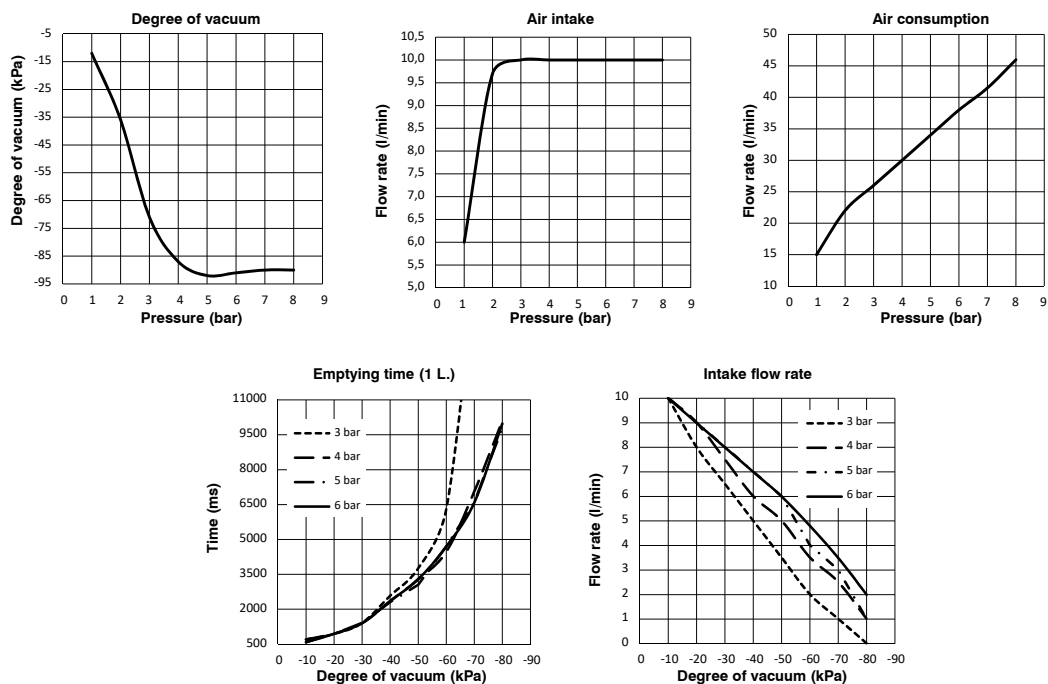


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	36	87	91
Intake flow rate (l/min)	10	10	10
Air consumption (l/min)	22	30	38

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	36
Noise (dBA)	77

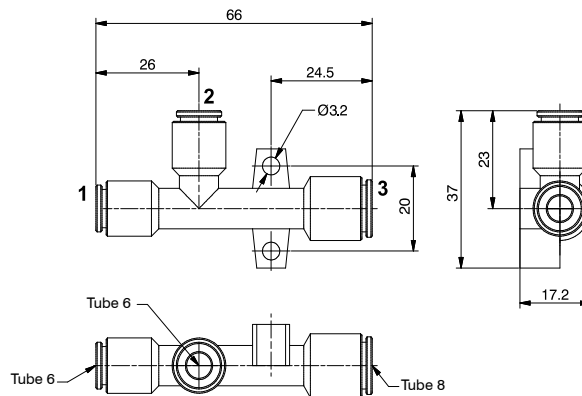
Accessories

19S18.S	Silencer G1/8"
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Single stage vacuum generator T06

Ordering code

19T06.S.10.HV.ZY

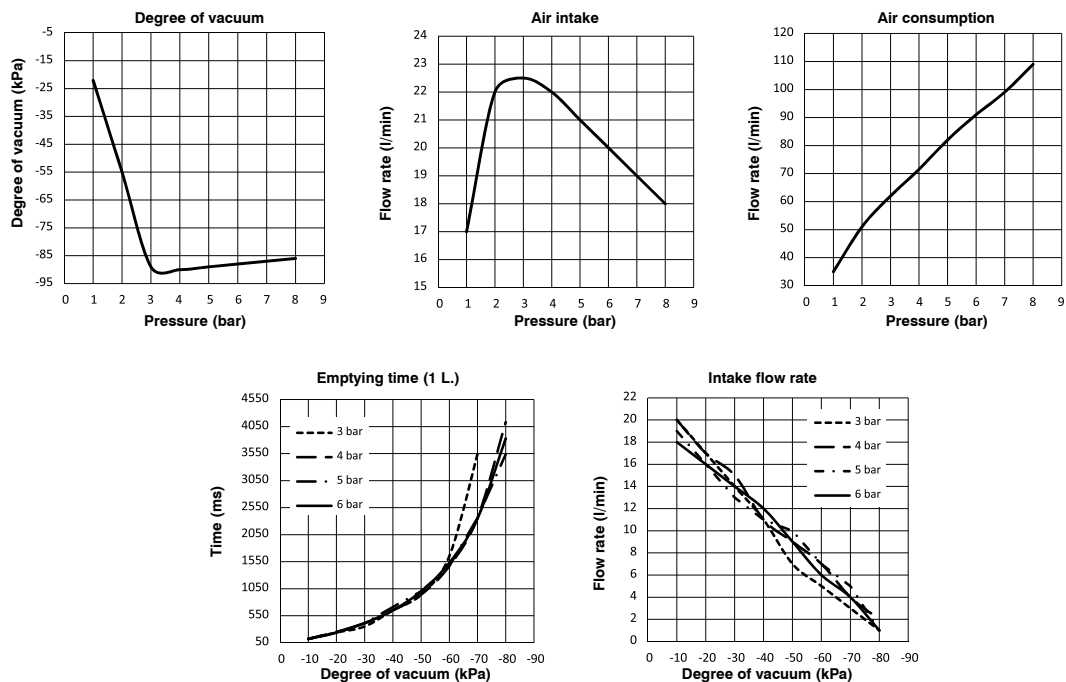


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	55	90	88
Intake flow rate (l/min)	22	22	20
Air consumption (l/min)	51	72	91

Performance Charts



Technical characteristics

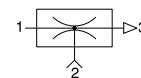
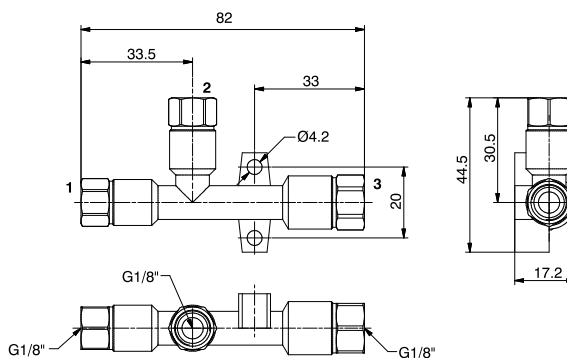
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	15
Noise (dBA)	94

VACUUM GENERATORS

Single stage vacuum generator T18

Ordering code

19T18.S.10.HV.VV

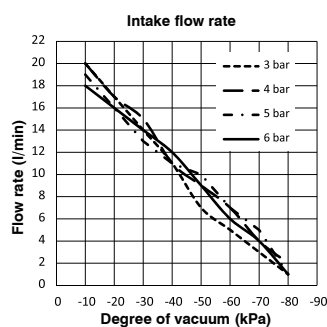
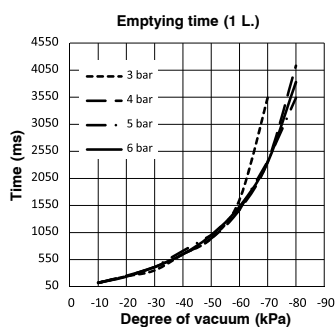
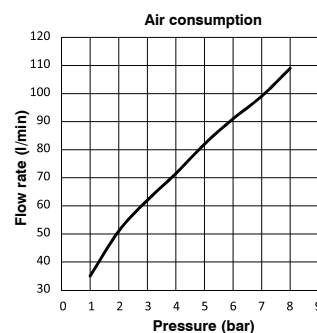
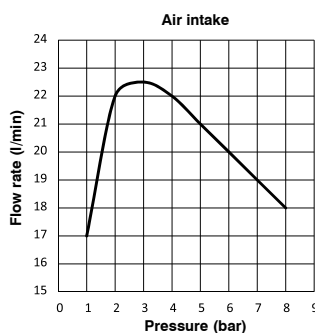
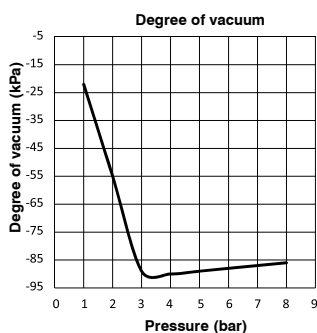


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Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	55	90	88
Intake flow rate (l/min)	22	22	20
Air consumption (l/min)	51	72	91

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	46
Noise (dBA)	87

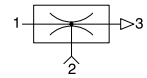
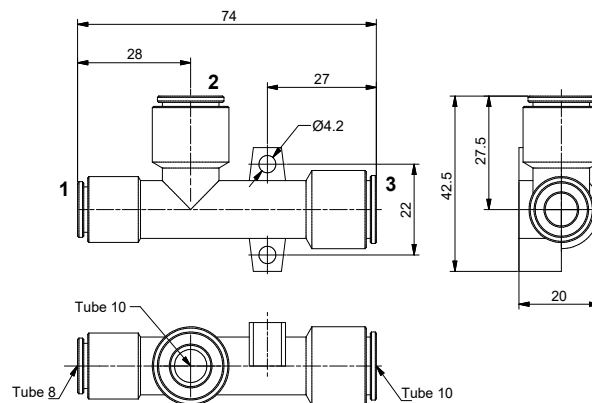
Accessories

19S18.S	Silencer G1/8"
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Single stage vacuum generator T10

Ordering code

19T10.S.13.HV.XX

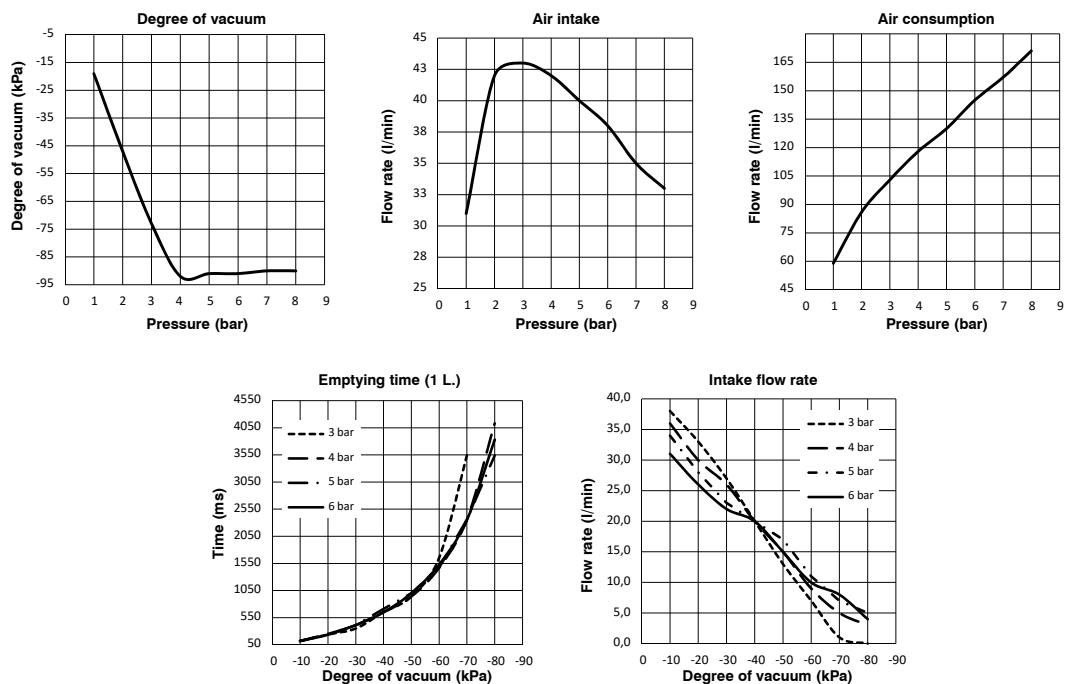


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	47	92	91
Intake flow rate (l/min)	42	42	38
Air consumption (l/min)	86	118	145

Performance Charts



Technical characteristics

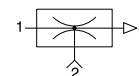
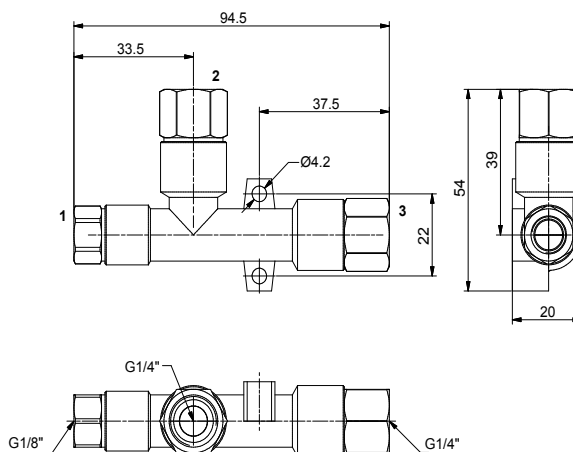
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	25
Noise (dBA)	92

VACUUM GENERATORS

Single stage vacuum generator T14

Ordering code

19T14.S.15.HV.UU

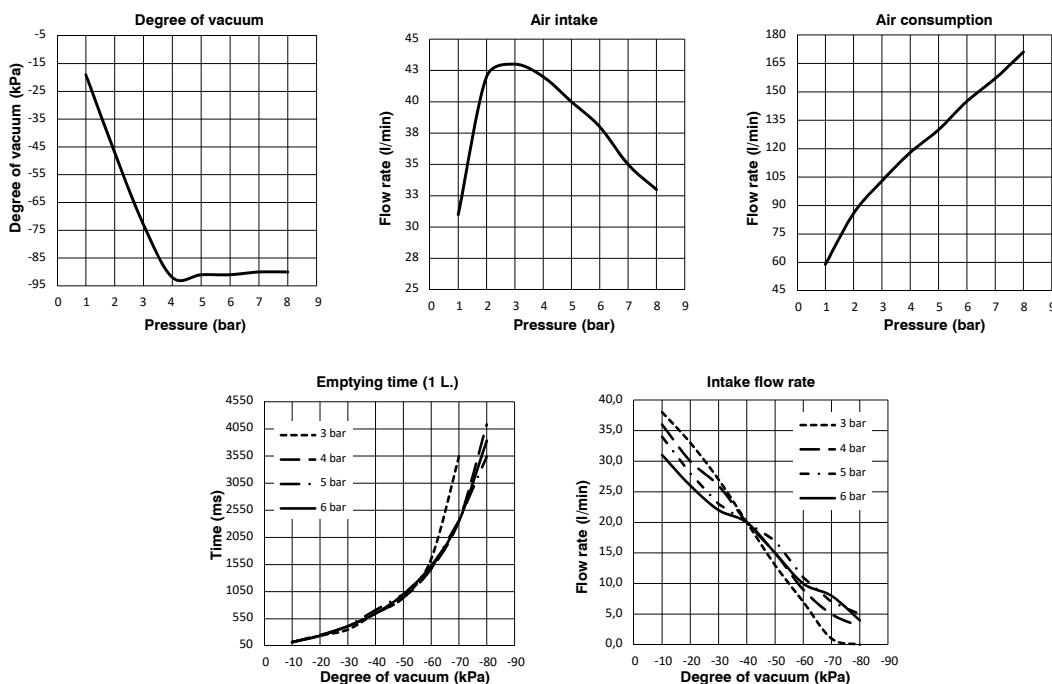


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Operational characteristics

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Degree of Vacuum (-kPa)	47	92	91
Intake flow rate (l/min)	42	42	38
Air consumption (l/min)	86	118	145

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	86
Noise (dBA)	96

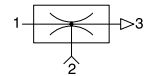
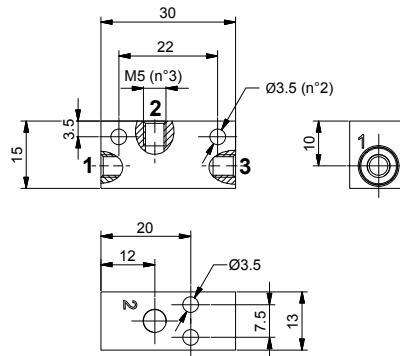
Accessories

19S14.S	Silencer G 1/4"
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Single stage vacuum generator M5

Ordering code

19M05.S.05.SS.00

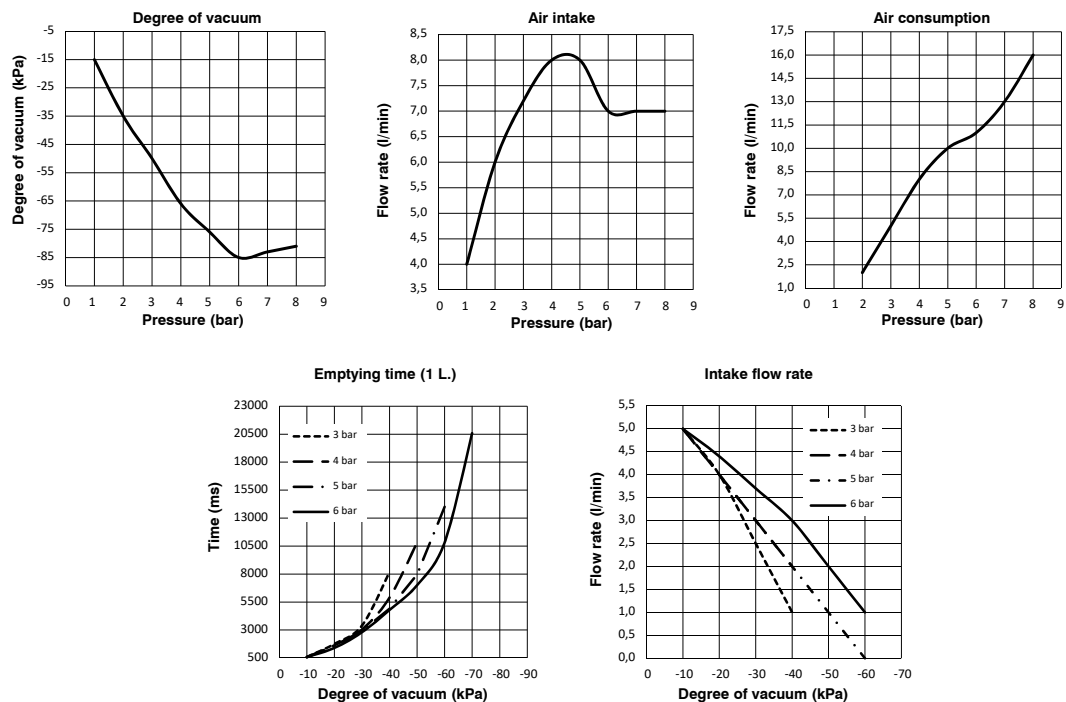


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Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	35	66	85
Intake flow rate (l/min)	6	8	7
Air consumption (l/min)	2	8	11

Performance Charts

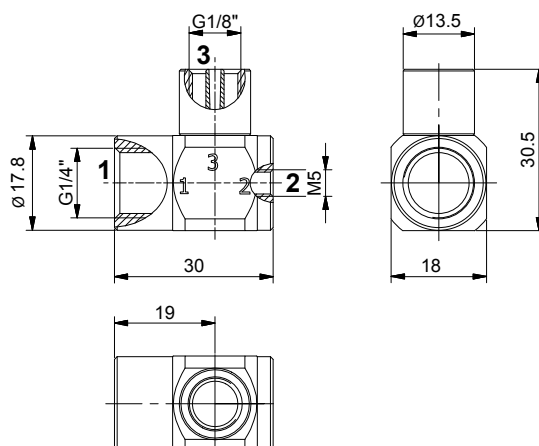


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	15

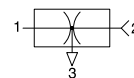
VACUUM GENERATORS

Single stage vacuum generator M5



Ordering code

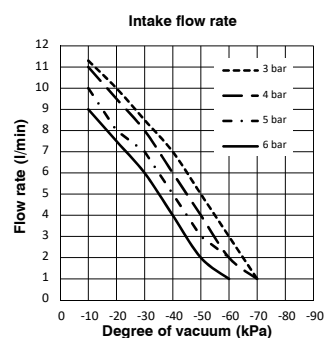
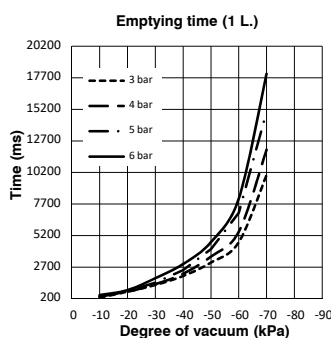
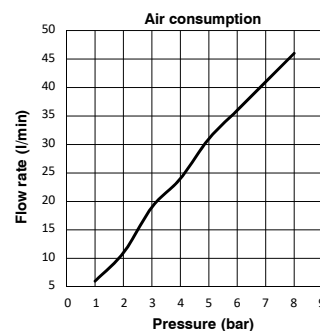
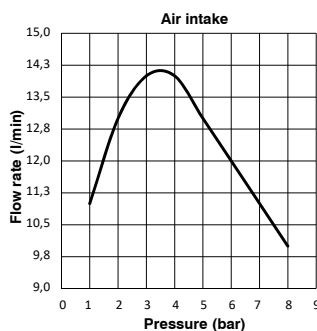
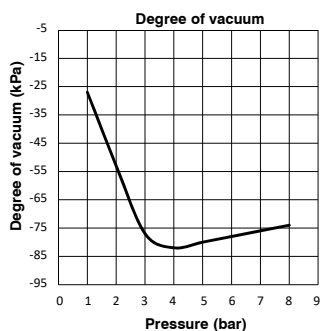
19M05.S.08.SS.L0



Single stage generators, with operation based on the Venturi principle; their main feature is the presence of feed pressure and connection for the vacuum on the same axis. This makes it possible to connect the suction cups directly to the generator or through the suction cup holder, so therefore still on the same axis with obvious advantages in terms of system layout and simplicity. The outlet connection has a female thread G 1/8".

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	53	82	78
Intake flow rate (l/min)	13	14	12
Air consumption (l/min)	11	24	36



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	24

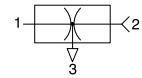
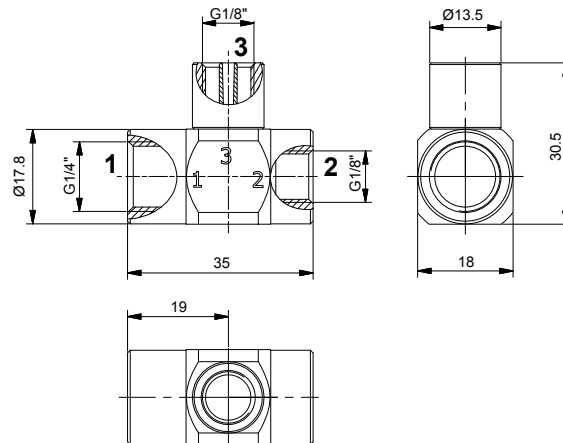
Accessories

19S18.S	Silencer G1/8"
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Single stage vacuum generator G1/8"

Ordering code

19M18.S.08.SS.L0

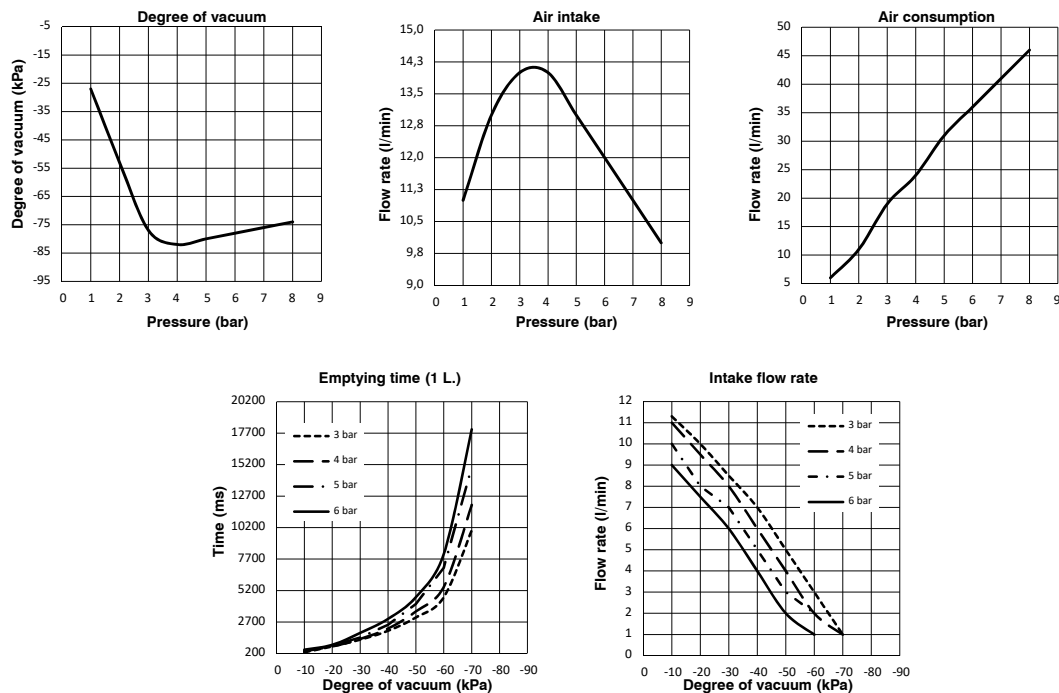


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Degree of Vacuum (-kPa)	53	82	78
Intake flow rate (l/min)	13	14	12
Air consumption (l/min)	11	24	36

Performance Charts



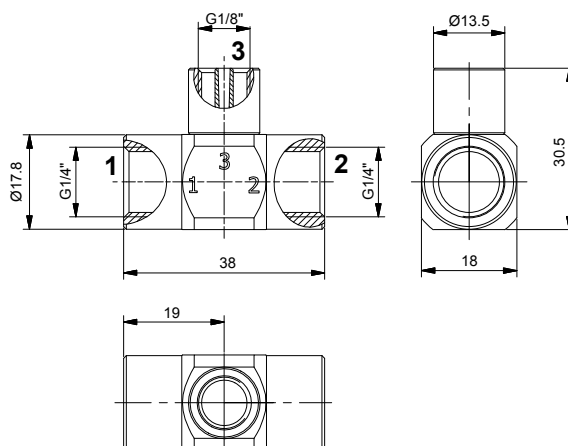
Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	26

Accessories

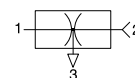
19S18.S	Silencer G1/8"
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Single stage vacuum generator G1/4"



Ordering code

19M14.S.08.SS.L0

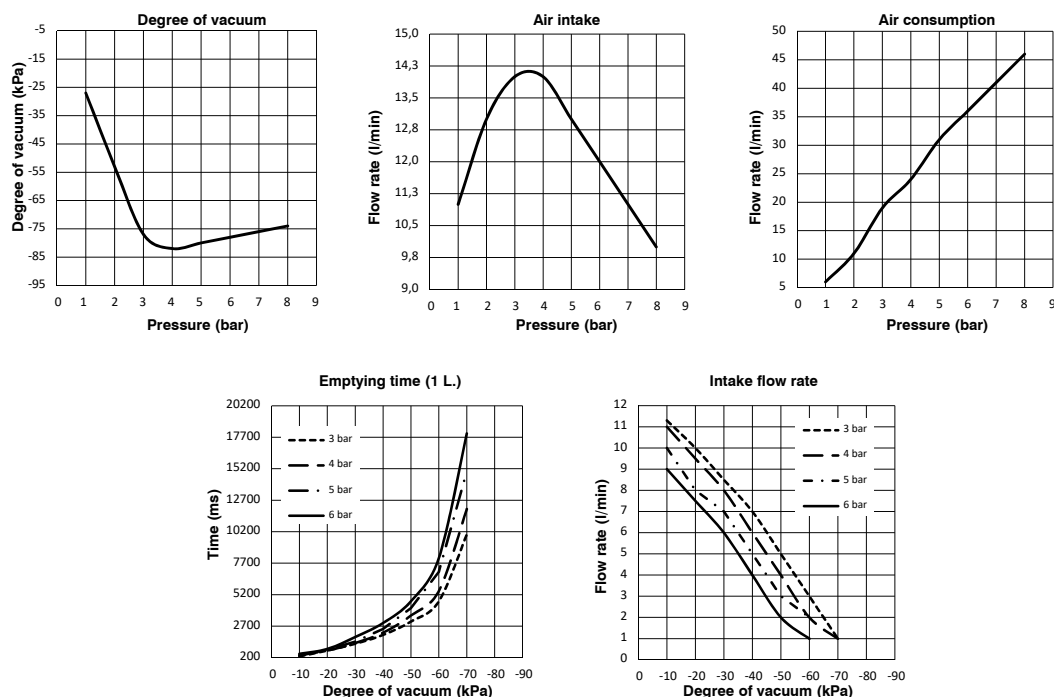


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Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	53	82	78
Intake flow rate (l/min)	13	14	12
Air consumption (l/min)	11	24	36

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	26

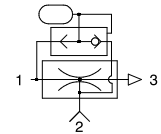
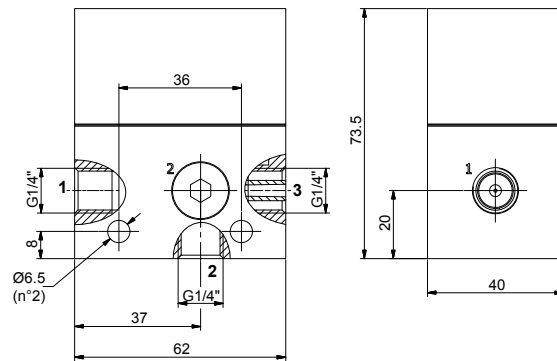
Accessories

19S18.S	Silencer G1/8"
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Single stage vacuum generator G1/4"

Ordering code

19M14.S.10.SS.E0

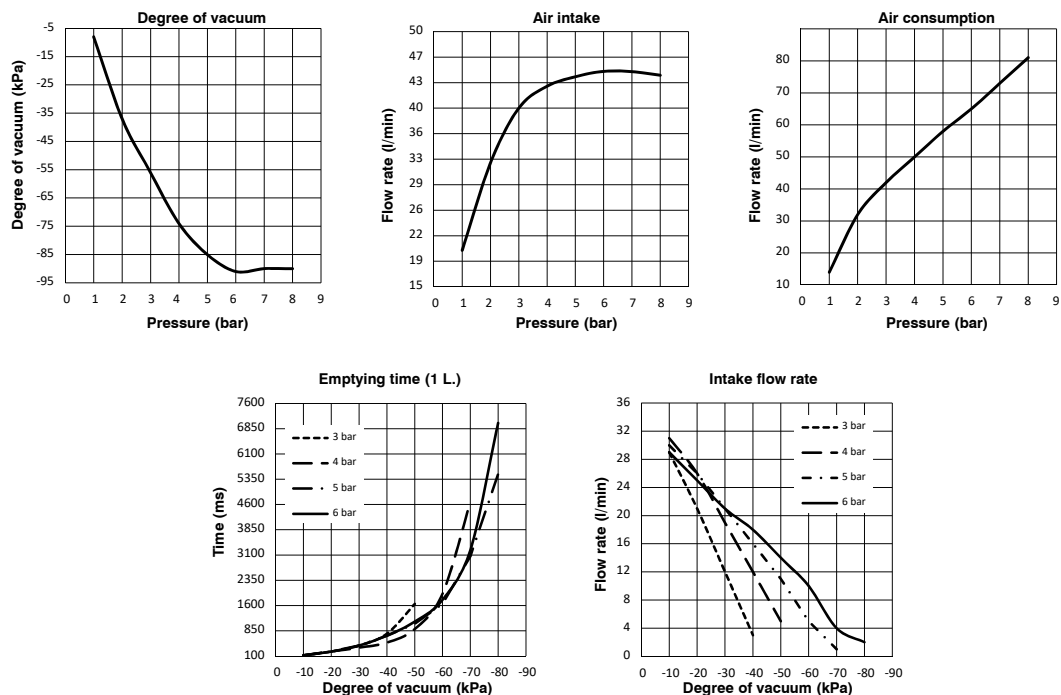


Single stage generators derived from standard traditional single-stage generators, complete with automatic release system. The pressure supply, in addition to generating the defined vacuum through the Venturi principle, supplies a chamber which serves as a pressure accumulator. When the supply stops, through a non-return valve, the accumulated pressure will be discharged automatically through the vacuum connection, ensuring quick detachment of the gripped piece.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	37	74	91
Intake flow rate (l/min)	32	43	45
Air consumption (l/min)	32	50	75

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	346

Accessories

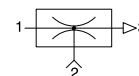
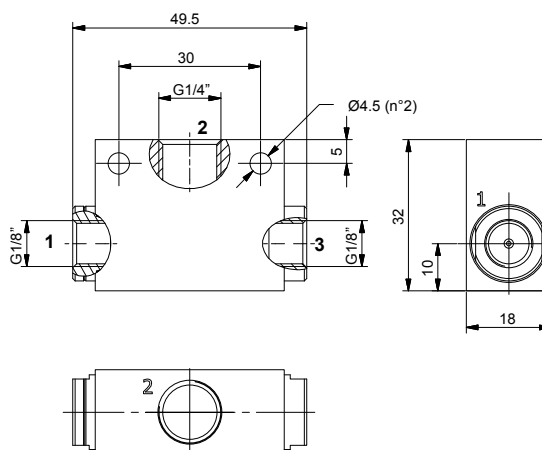
19S14.S	Silencer G1/4"
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VACUUM GENERATORS

Single stage vacuum generator G1/4"

Ordering code

19M14.S.10.SS.R0

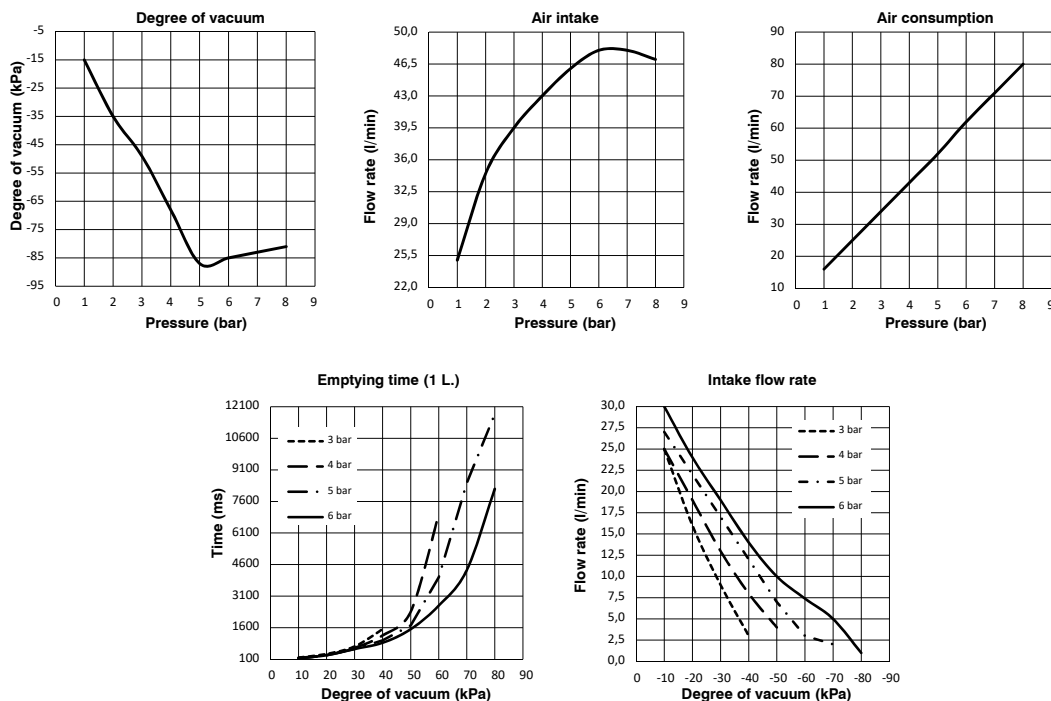


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Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	35	68	85
Intake flow rate (l/min)	35	43	48
Air consumption (l/min)	25	43	62

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	55

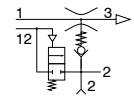
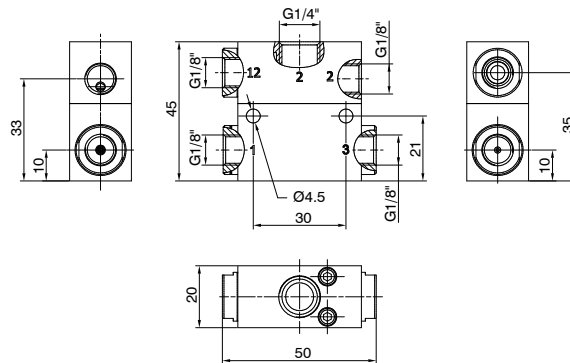
Accessories

19S18.S	Silencer G1/8"
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Single stage vacuum generator with built in vacuum retaining valve

Ordering code

19M14.S.10.SS.03

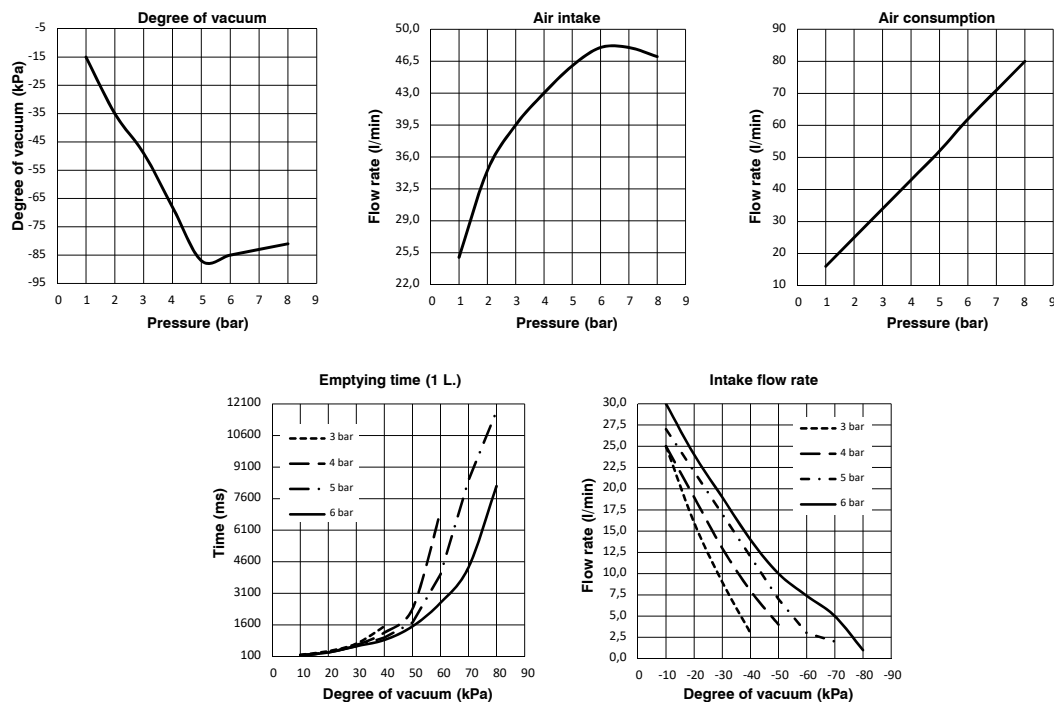


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which require the vacuum to be reached quickly with limited air flow. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups or suction cup holder for the construction of a decentralized plant. Equipped with an integrated non-return valve, which holds the vacuum in sealed applications and breakdowns or lack of air supply and a flap valve for the quick release of the manipulated objects.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	35	68	85
Intake flow rate (l/min)	35	43	48
Air consumption (l/min)	25	43	62

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	85

Accessories

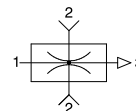
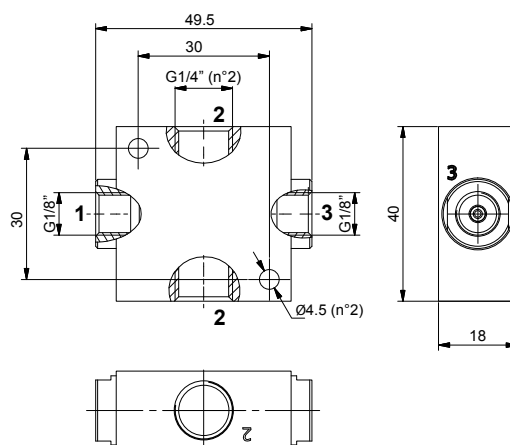
19S18.S	Silencer G1/8"
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VACUUM GENERATORS

Single stage vacuum generator G1/4"

Ordering code

19M14.S.15.SS.RD

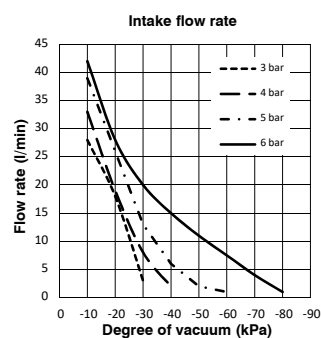
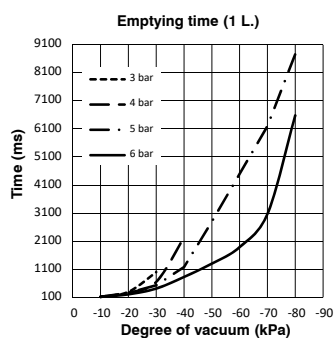
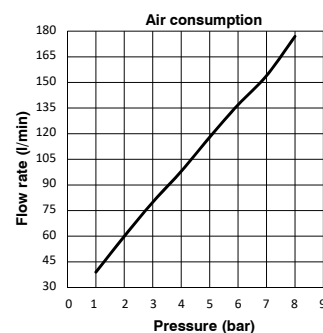
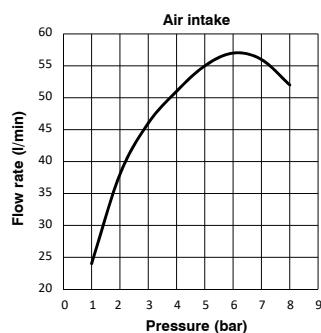
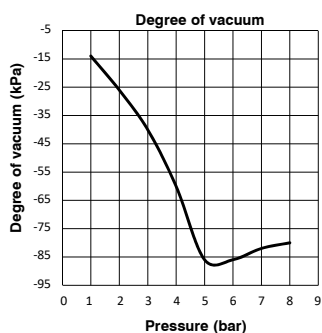


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	26	60	86
Intake flow rate (l/min)	38	51	57
Air consumption (l/min)	60	98	137

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	68

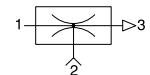
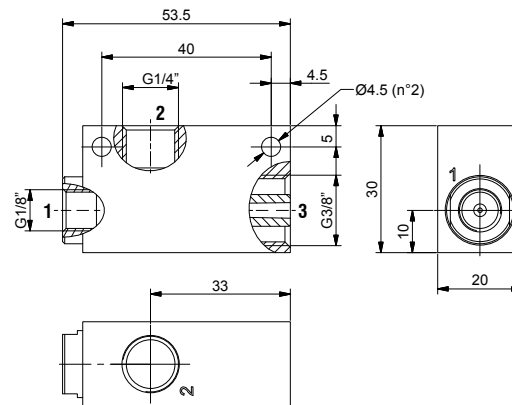
Accessories

19S18.S	Silencer G1/8"
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Single stage vacuum generator G1/4"

Ordering code

19M14.S.11.SS.00

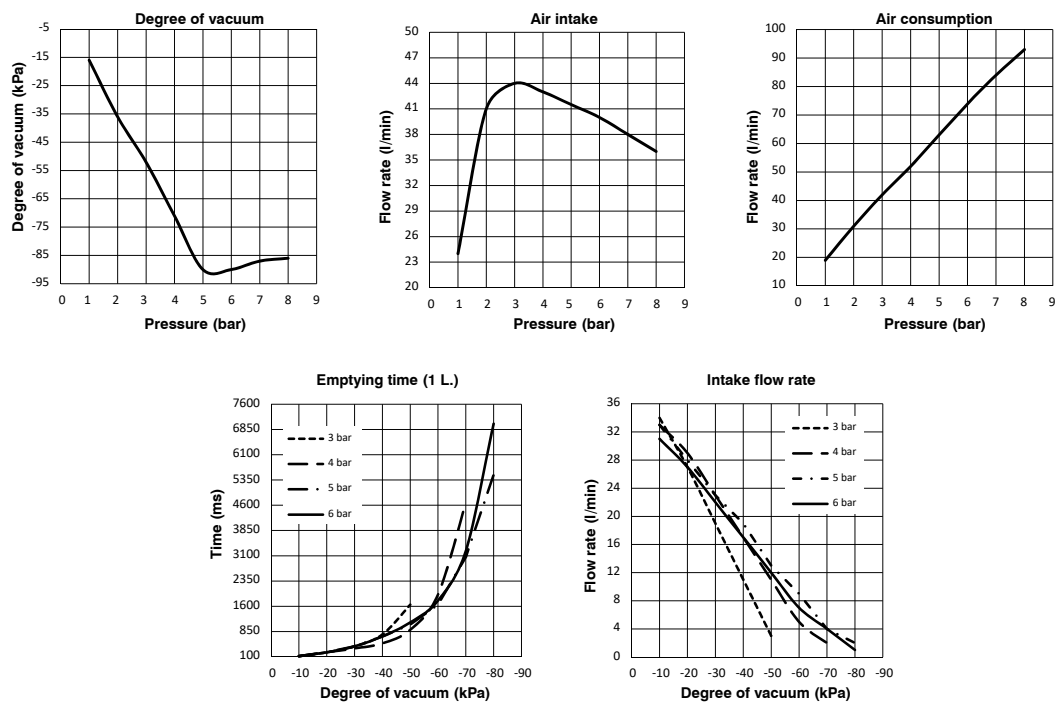


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	36	71	90
Intake flow rate (l/min)	41	43	40
Air consumption (l/min)	31	52	74

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	67

Accessories

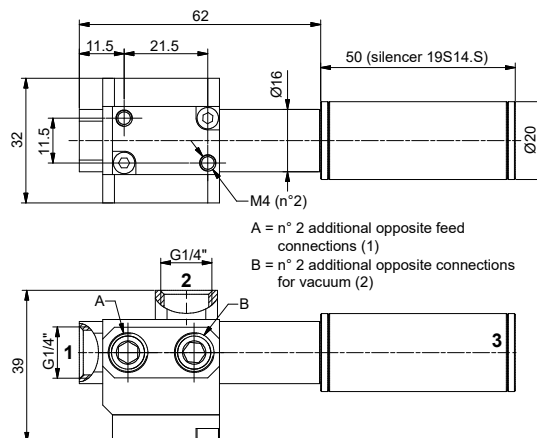
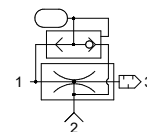
19S38.S	Silencer G3/8"
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VACUUM GENERATORS

Single stage vacuum generator G1/4"

Ordering code

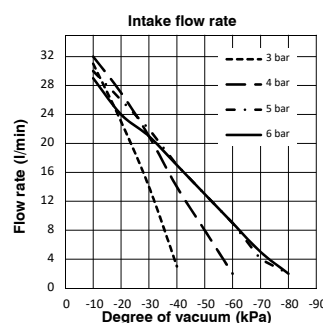
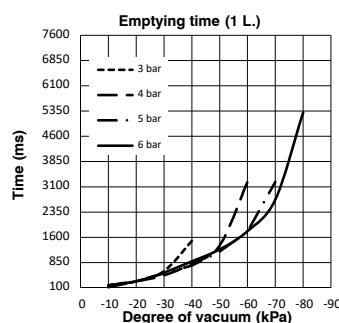
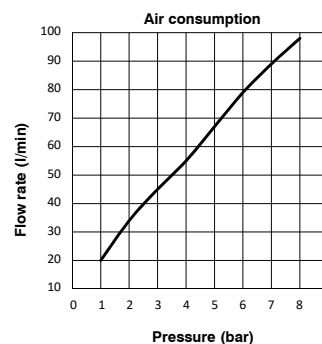
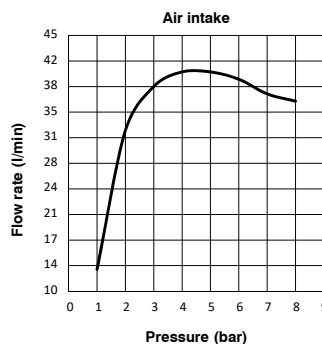
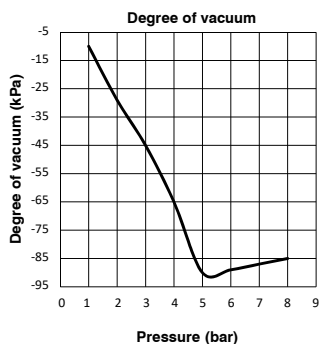
19M14.S.12.SL.ES



High-performance compact generator for high frequency applications; the presence of the integrated ejector ensures release capacity in the shortest possible time. The fact of it being extremely lightweight allows its application directly onto the robot gripping arms and/or mobile applications. Available with two flow rates in the same overall dimensions.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	29	65	89
Intake flow rate (l/min)	32	40	39
Air consumption (l/min)	34	55	79



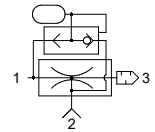
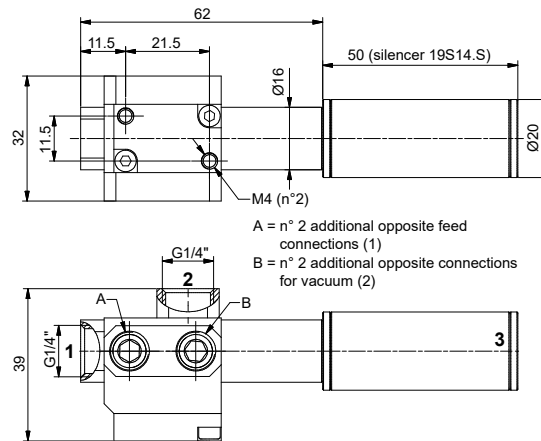
Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	83

Single stage vacuum generator G1/4"

Ordering code

19M14.S.17.SL.ES

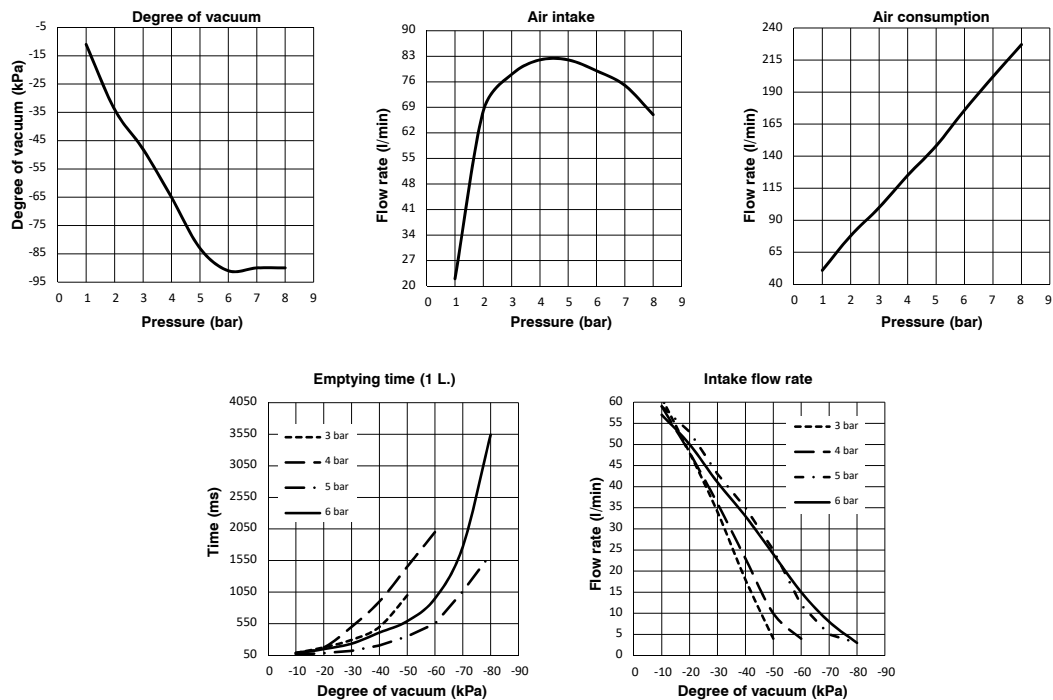


High-performance compact generator for high frequency applications; the presence of the integrated ejector ensures release capacity in the shortest possible time. The fact of it being extremely lightweight allows its application directly onto the robot gripping arms and/or mobile applications. Available with two flow rates in the same overall dimensions.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	34	65	91
Intake flow rate (l/min)	68	82	79
Air consumption (l/min)	78	125	176

Performance Charts

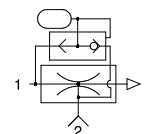
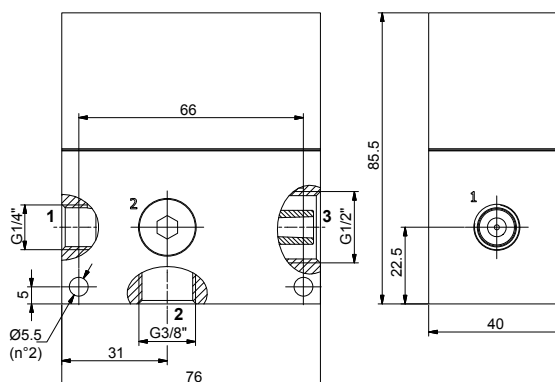


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	83

Single stage vacuum generator G3/8"

Ordering code

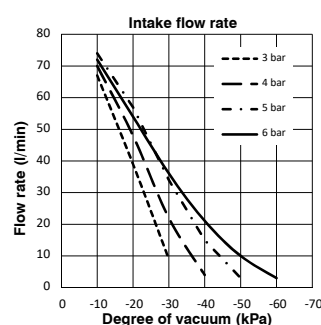
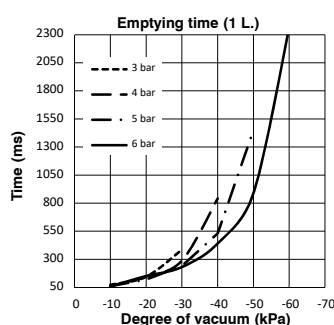
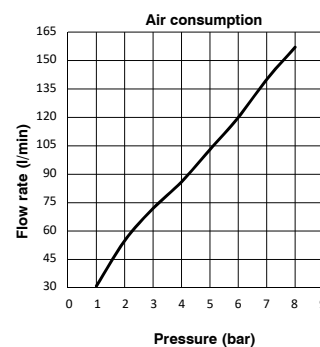
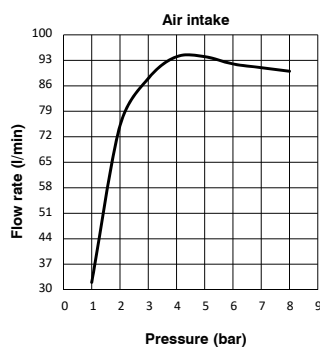
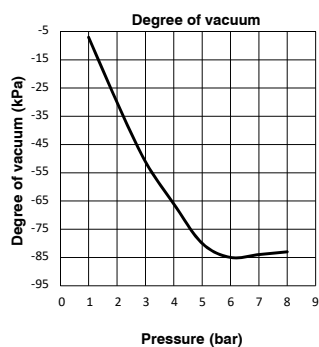
19M38.S.14.SS.E0


Single stage generators derived from standard traditional single-stage generators, complete with automatic release system. The pressure supply, in addition to generating the defined vacuum through the Venturi principle, supplies a chamber which serves as a pressure accumulator. When the supply stops, through a non-return valve, the accumulated pressure will be discharged automatically through the vacuum connection, ensuring quick detachment of the gripped piece.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	30	66	85
Intake flow rate (l/min)	75	94	92
Air consumption (l/min)	55	86	120

Performance Charts


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	480

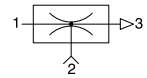
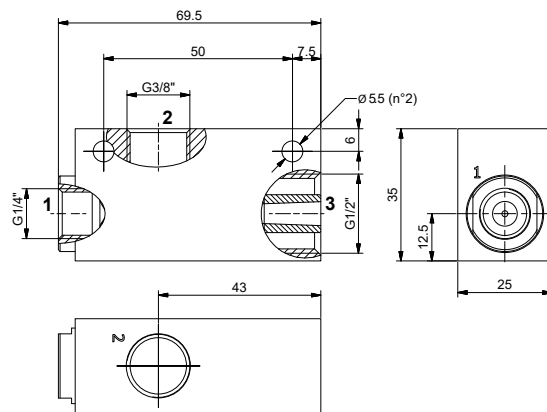
Accessories

19S12.R	Silencer G1/2"
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Single stage vacuum generator G3/8"

Ordering code

19M38.S.15.SS.00

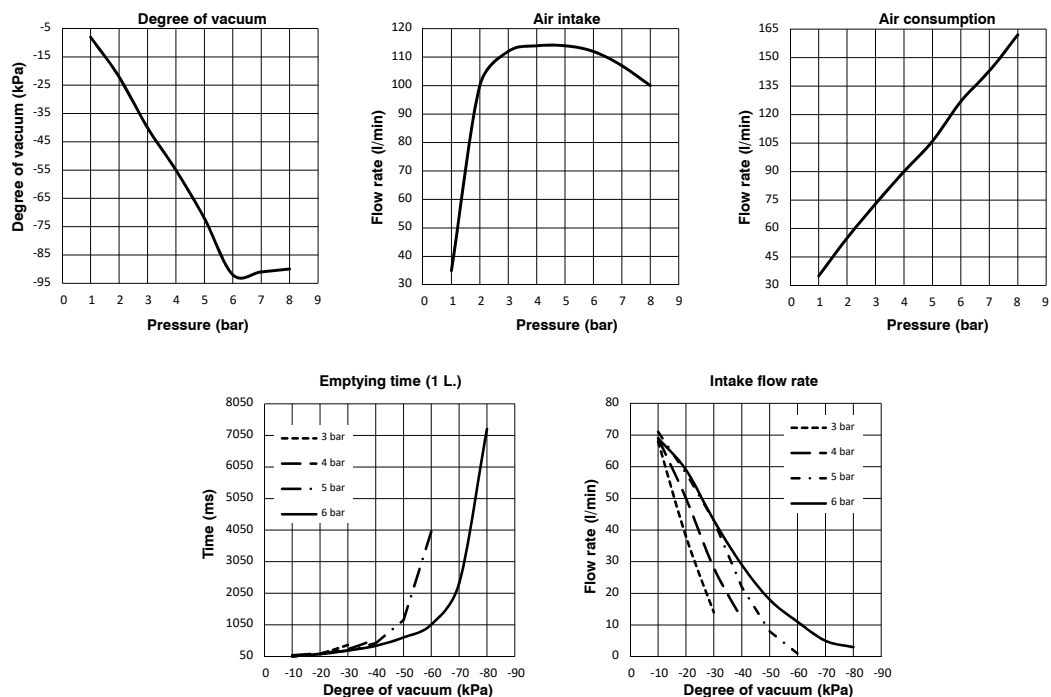


Single stage generators, robust and reliable, with compact dimensions and suitable for applications which need the required degree of vacuum to be reached quickly with limited air flows. Operating on the Venturi principle they have the vacuum connection orthogonal to the axis of supply and outlet. They can be connected directly to the suction cups and/or suction cup holder and applied in any position.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	22	55	92
Intake flow rate (l/min)	100	114	112
Air consumption (l/min)	55	90	127

Performance Charts



Technical characteristics

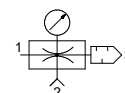
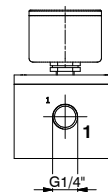
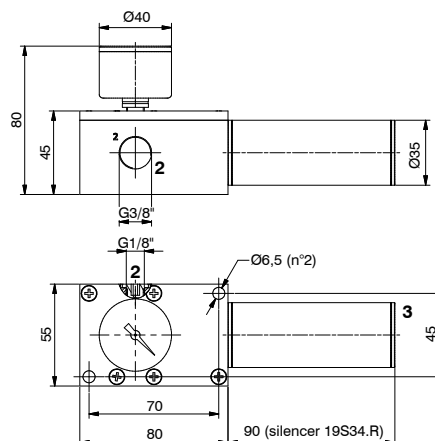
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	122

Accessories

19S12.R	Silencer G1/2"
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VACUUM GENERATORS

Single stage vacuum generator G3/8"



Ordering code

19M38.S.18.HV.©

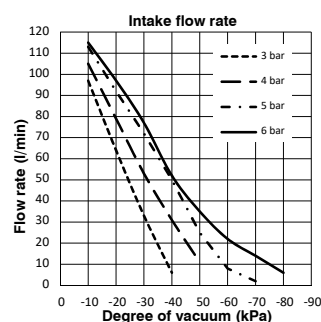
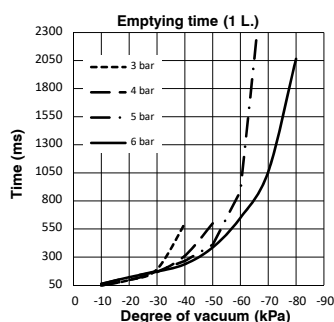
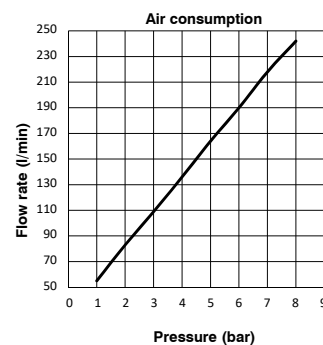
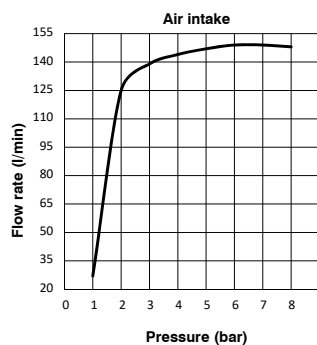
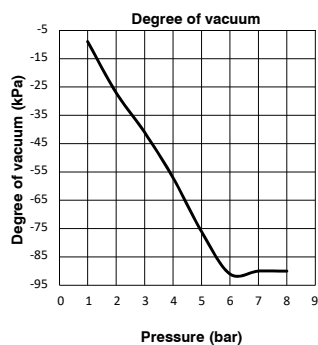
OPTIONS

- VS = vacuum gauge + silencer
- OS = only silencer

Single stage generator with high suction capacity due to a pair of nozzles mounted in parallel; they are particularly quiet thanks to a free-flow type silencer, standard-fitted with a vacuum gauge, and allows direct connection with a vacuum switch or alternatively a solenoid valve for quick detachment via direct blowing into the vacuum connection. Suitable for decentralised connection of one or more suction cups.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	27	57	91
Intake flow rate (l/min)	125	144	149
Air consumption (l/min)	83	136	190

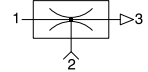
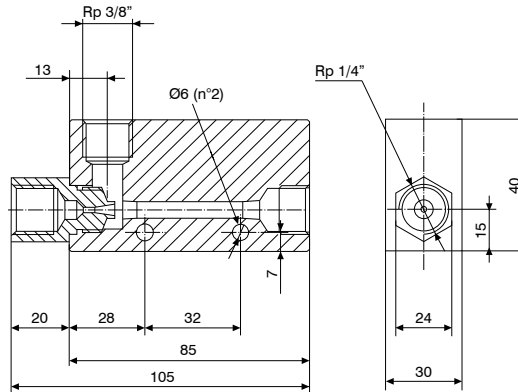


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	450

High-flow single stage vacuum generator G3/8"

Ordering code

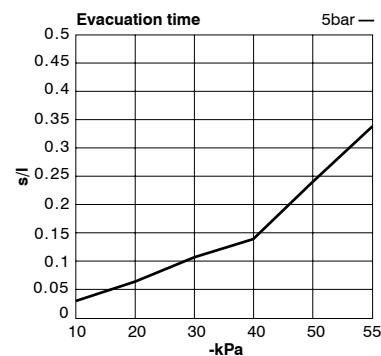
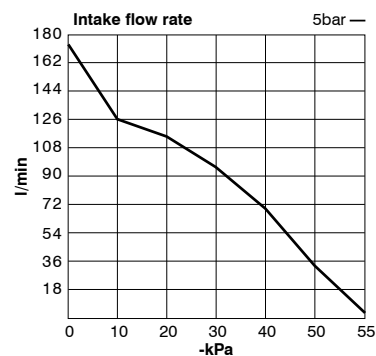
19M38.S.20.HF.00

Single stage high suction power generators operating using a single large Venturi nozzle; particularly silent thanks to a free-low silencer which is mounted separately. Suitable for use in dusty environments and in applications where a large suction capacity and an average degree of vacuum are required (57 -kPa).

Operational characteristics

Inlet pressure (bar)	5
Degree of Vacuum (-kPa)	57
Intake flow rate (l/min)	170
Air consumption (l/min)	180

Performance Charts



VACUUM GENERATORS

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)							Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	55	
5	180	170	125	115	95	70	35.5	7.5	57

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)						Degree of Vacuum max. (-kPa)
		10	20	30	40	50	55	
5	180	0.029	0.062	0.105	0.138	0.246	0.338	57

Technical characteristics

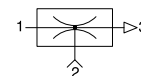
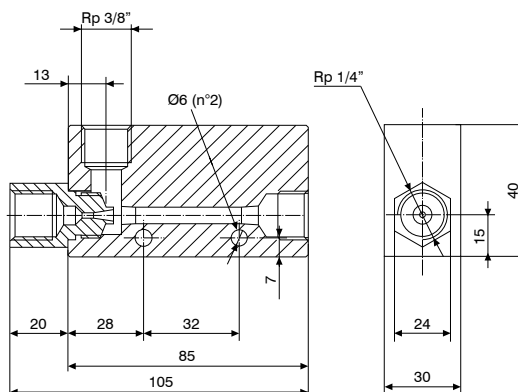
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 6
Temperature (°C)	0 ... +60
Weight (g)	327
Noise (dBA)	72

Accessories

19S12.S	Silencer G1/2"
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High-flow single stage vacuum generator G3/8"

Ordering code

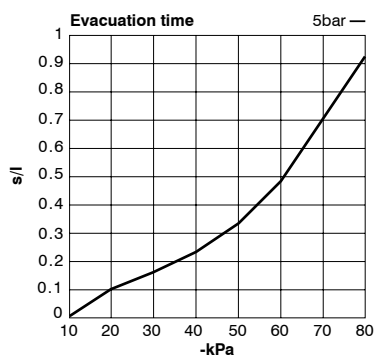
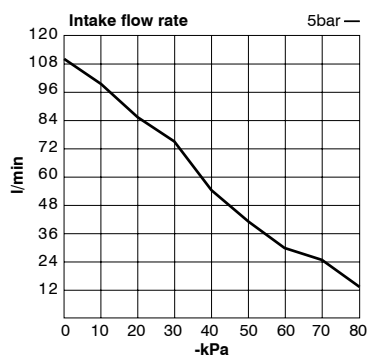
19M38.S.20.HH.00


Single stage high suction power generators operating using a single large Venturi nozzle; particularly silent thanks to a free-flow silencer which is mounted separately. Suitable for use in dusty environments and in applications where a large suction capacity and a high degree of vacuum are required (92 -kPa).

Operational characteristics

Inlet pressure (bar)	5
Degree of Vacuum (-kPa)	92
Intake flow rate (l/min)	110
Air consumption (l/min)	180

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	
5	180	110	100	85	75	55	40.5	30	20	12	92

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)								Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	
5	180	0.043	0.1	0.167	0.23	0.338	0.492	0.707	0.923	92

Technical characteristics

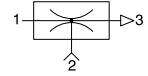
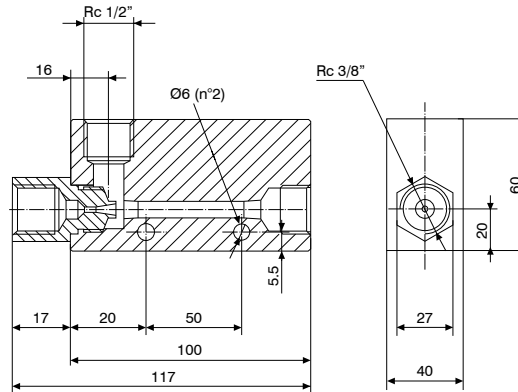
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 6
Temperature (°C)	0 ... +60
Weight (g)	327
Noise (dBA)	72

Accessories

19S12.S	Silencer G1/2"
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High-flow single stage vacuum generator G1/2"

Ordering code

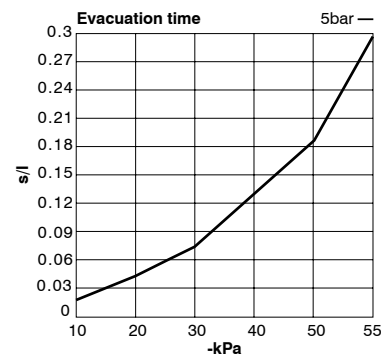
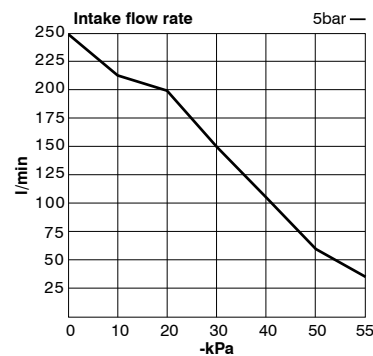
19M12.S.25.HF.00

Single stage high suction power generators operating using a single large Venturi nozzle; particularly silent thanks to a free-low silencer which is mounted separately. Suitable for use in dusty environments and in applications where a large suction capacity and an average degree of vacuum are required (57 -kPa).

Operational characteristics

Inlet pressure (bar)	5
Degree of Vacuum (-kPa)	57
Intake flow rate (l/min)	250
Air consumption (l/min)	265

Performance Charts



VACUUM GENERATORS

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)							Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	55	
5	265	250	215	200	150	105	60	36	57

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)						Degree of Vacuum max. (-kPa)
		10	20	30	40	50	55	
5	265	0.021	0.046	0.076	0.123	0.184	0.3	57

Technical characteristics

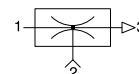
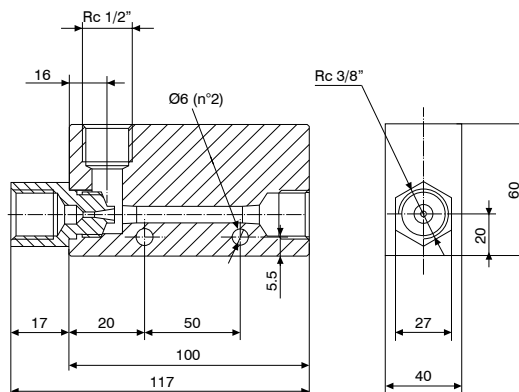
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 6
Temperature (°C)	0 ... +60
Weight (g)	660
Noise (dBA)	75

Accessories

19S34.R	Silencer G3/4"
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High-flow single stage vacuum generator G1/2"

Ordering code

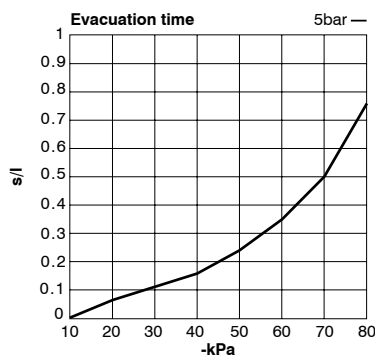
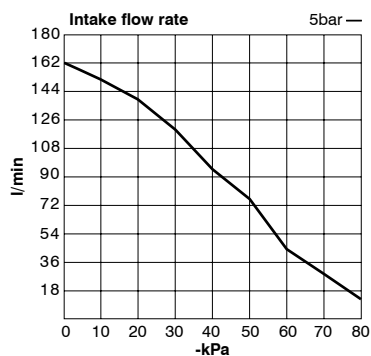
19M12.S.25.HH.00


Single stage high suction power generators operating using a single large Venturi nozzle; particularly silent thanks to a free-flow silencer which is mounted separately. Suitable for use in dusty environments and in applications where a large suction capacity and a high degree of vacuum are required (92 -kPa).

Operational characteristics

Inlet pressure (bar)	5
Degree of Vacuum (-kPa)	92
Intake flow rate (l/min)	160
Air consumption (l/min)	265

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	
5	265	160	155	140	120	95	72	47	28	15	92

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)								Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	
5	265	0.03	0.069	0.112	0.168	0.241	0.345	0.494	0.753	92

Technical characteristics

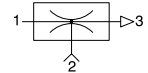
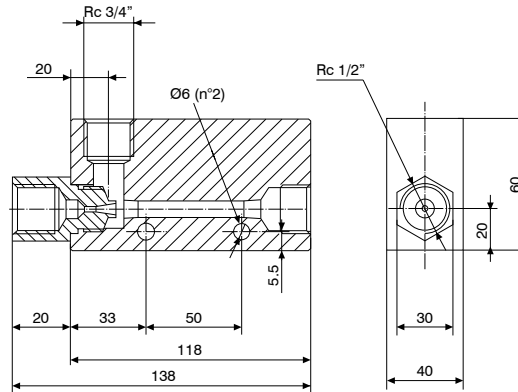
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 6
Temperature (°C)	0 ... +60
Weight (g)	660
Noise (dBA)	75

Accessories

19S34.R	Silencer G3/4"
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High-flow single stage vacuum generator G3/4"

Ordering code

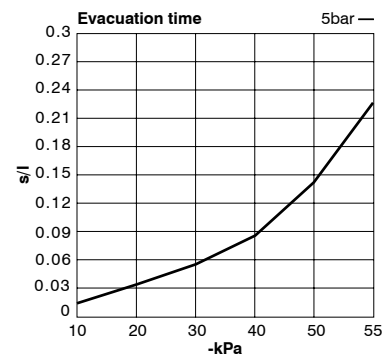
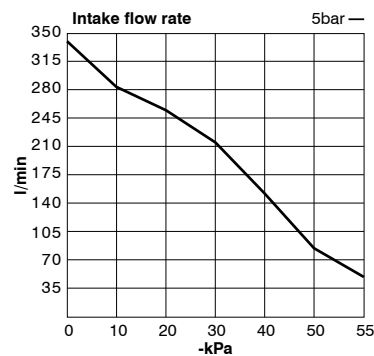
19M34.S.30.HF.00

Single stage high suction power generators operating using a single large Venturi nozzle; particularly silent thanks to a free-low silencer which is mounted separately. Suitable for use in dusty environments and in applications where a large suction capacity and an average degree of vacuum are required (57 -kPa).

Operational characteristics

Inlet pressure (bar)	5
Degree of Vacuum (-kPa)	57
Intake flow rate (l/min)	350
Air consumption (l/min)	385

Performance Charts



VACUUM GENERATORS

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)							Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	55	
5	385	350	295	267	215	150	85	41	57

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)						Degree of Vacuum max. (-kPa)
		10	20	30	40	50	55	
5	385	0.017	0.035	0.058	0.086	0.132	0.219	57

Technical characteristics

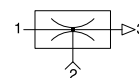
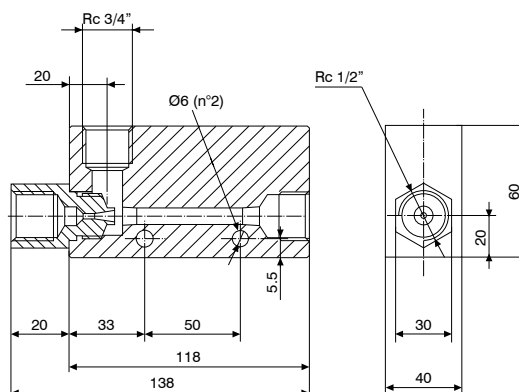
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 6
Temperature (°C)	0 ... +60
Weight (g)	774
Noise (dBA)	75

Accessories

19S34.R	Silencer G3/4"
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High-flow single stage vacuum generator G3/4"

Ordering code

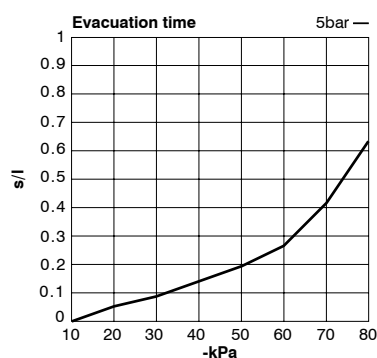
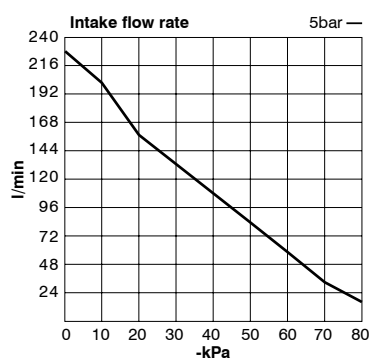
19M34.S.30.HH.00


Single stage high suction power generators operating using a single large Venturi nozzle; particularly silent thanks to a free-flow silencer which is mounted separately. Suitable for use in dusty environments and in applications where a large suction capacity and a high degree of vacuum are required (92 -kPa).

Operational characteristics

Inlet pressure (bar)	5
Degree of Vacuum (-kPa)	92
Intake flow rate (l/min)	225
Air consumption (l/min)	385

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	
5	385	225	200	160	135	105	78	55	33	19	92

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)								Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	
5	385	0.029	0.058	0.092	0.136	0.196	0.265	0.406	0.625	92

Technical characteristics

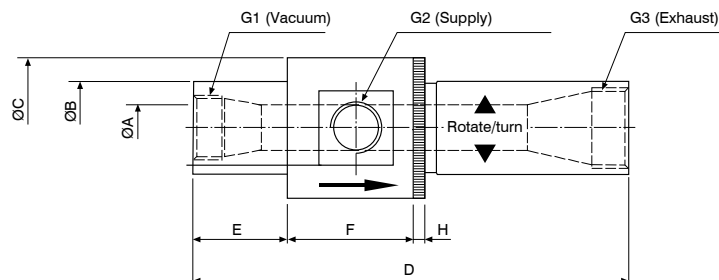
Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 6
Temperature (°C)	0 ... +60
Weight (g)	774
Noise (dBA)	75

Accessories

19S34.R	Silencer G3/4"
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Adjustable vacuum generator conveyor



Code	ØA	ØB	ØC	D	E	F	H	G1	G2	G3	Weight (g)
19M14.S.00.SS.RG	6.5	19	32	94-105	22	32	5	G1/4"	G1/8"	G1/4"	96
19M38.S.00.SS.RG	10	25	45	155-165	38	45	5	G3/8"	G3/8"	G1/2"	271.6
19M12.S.00.SS.RG	13	32	51	155-160	38	51	5	G1/2"	G3/8"	G3/4"	377.2
19M34.S.00.SS.RG	19	38	58	175-189	38	51	5	G3/4"	G1/2"	G1"	526.8

Based on the Ventury principle, these differ from traditional ones because they have a much better ejector and are adjustable, this characteristic makes it possible to change the device's low rate and degree of vacuum without affecting the inlet pressure. Their special shape and their operating principle make them suitable for suction and the transfer of powders, granules, sawdust, metal chips, liquid or dry food products, etc., to control suction cups in the presence of large quantities of powders or liquids; these can also be used to suction smoke, coolant fog, water vapour, etc.

Operational characteristics

Inlet pressure (bar)	4 ... 6 (Max. 7)
Max. Degree of Vacuum (-kPa)	84
Max. Intake flow rate (l/min)	3390
Max. Air consumption (l/min)	2550

Code	Degree of Vacuum (-kPa)	Inlet pressure (bar)				
		5.5				
		17	34	50	68	84
19M14.S.00.SS.RG	Air consumption (l/min)	112	169	233	276	342
19M38.S.00.SS.RG		176	327	485	595	825
19M12.S.00.SS.RG		340	625	795	940	1280
19M34.S.00.SS.RG		650	875	1250	1790	2550

Code	Degree of Vacuum (-kPa)	Inlet pressure (bar)				
		5.5				
		17	34	50	68	84
19M14.S.00.SS.RG	Intake flow rate (l/min)	280	240	200	162	125
19M38.S.00.SS.RG		846	735	620	520	395
19M12.S.00.SS.RG		1695	1325	1130	990	650
19M34.S.00.SS.RG		3390	2460	1970	1440	1130

Accessories		Description
19S14.S	Silencer G1/4"	for 19M14.S.00.SS.RG
19S12.R	Silencer G1/2"	for 19M38.S.00.SS.RG
19S34.R	Silencer G3/4"	for 19M12.S.00.SS.RG
19S10.R	Silencer G1"	for 19M34.S.00.SS.RG

Multistage vacuum generators

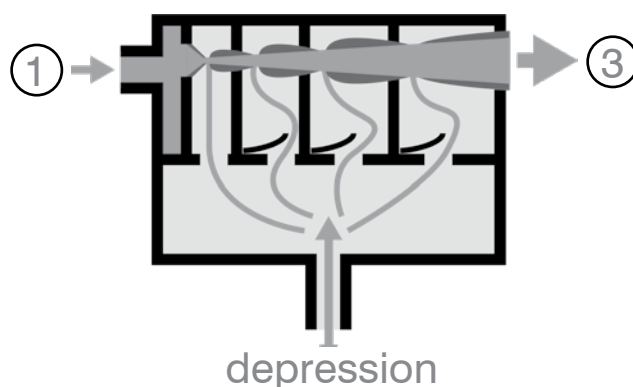
Compact generators, composed of several modules according to the required performance to obtain high suction capacity with low consumption and high vacuum degrees.



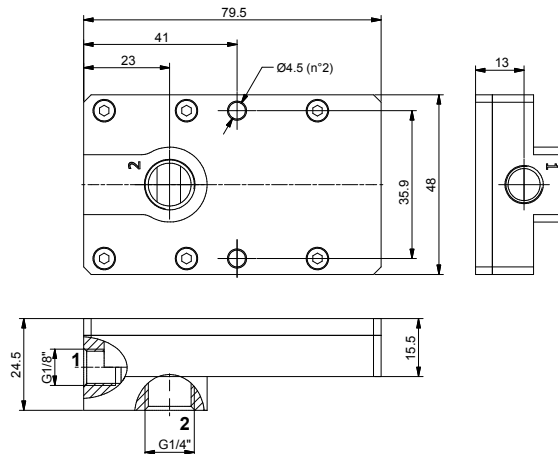
Performance and application

The multistage vacuum generators base their operating characteristics on the Venturi principle. The compressed air is manipulated to flow at high speed in port 1 which constitutes the first stage of the vacuum generator and in the subsequent stages, following the entrainment of the surrounding air, a depression is created.

The advantage of multistage vacuum generator is in the optimization of the kinetic energy. Injecting the compressed air through multiple nozzles generates an improve volumetric flow rate (Compared to a single stage unit) whilst using a lower consumption of compressed air.

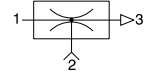


Series 1900

 Multistage vacuum generator G1/4"


Ordering code

19M14.M.09.SS.00

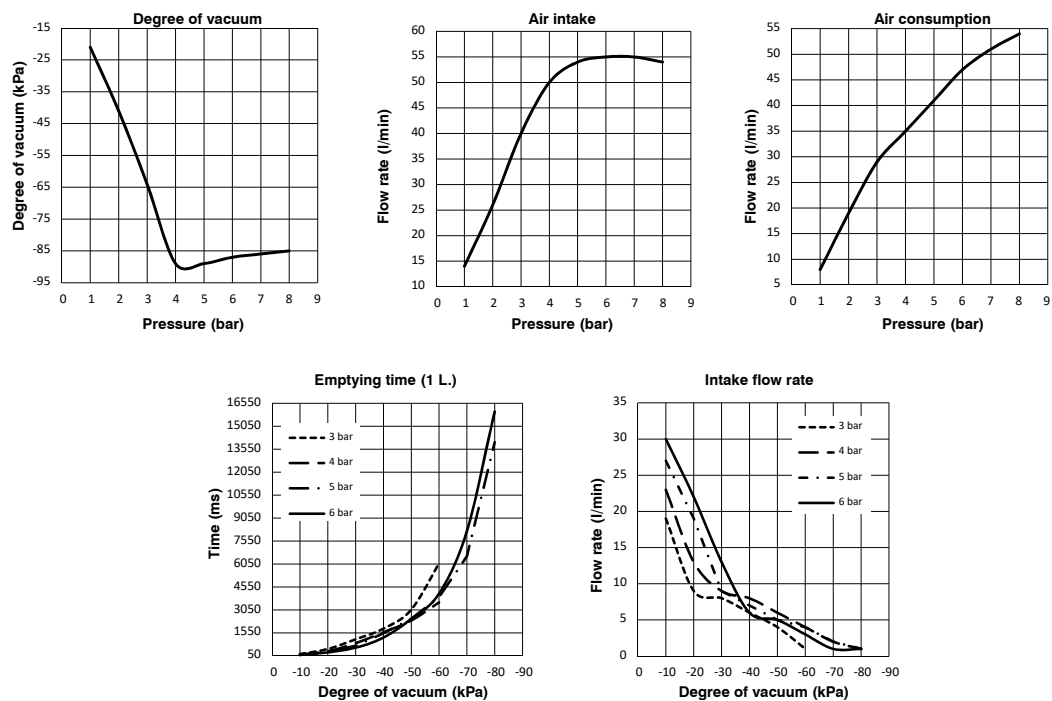


As a function of the modules (nozzles 2-4- 6-8) used, offer exactly the right performance for the most varied of industrial applications. They ensure a low level of noise thanks to the sound-absorbent material inside of them.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	41	89	87
Intake flow rate (l/min)	26	50	55
Air consumption (l/min)	19	35	47

Performance Charts

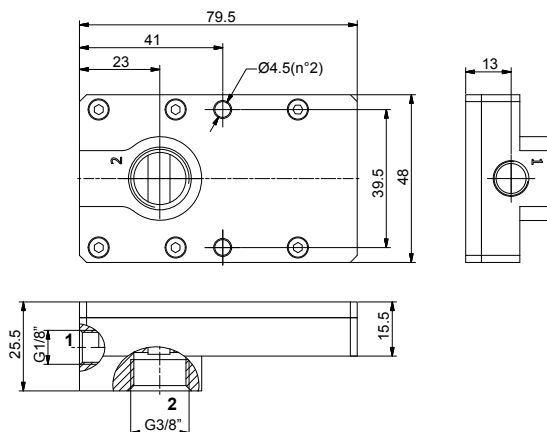


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	132

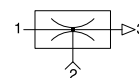
VACUUM GENERATORS

Multistage vacuum generator G3/8"



Ordering code

19M38.M.12.SS.00

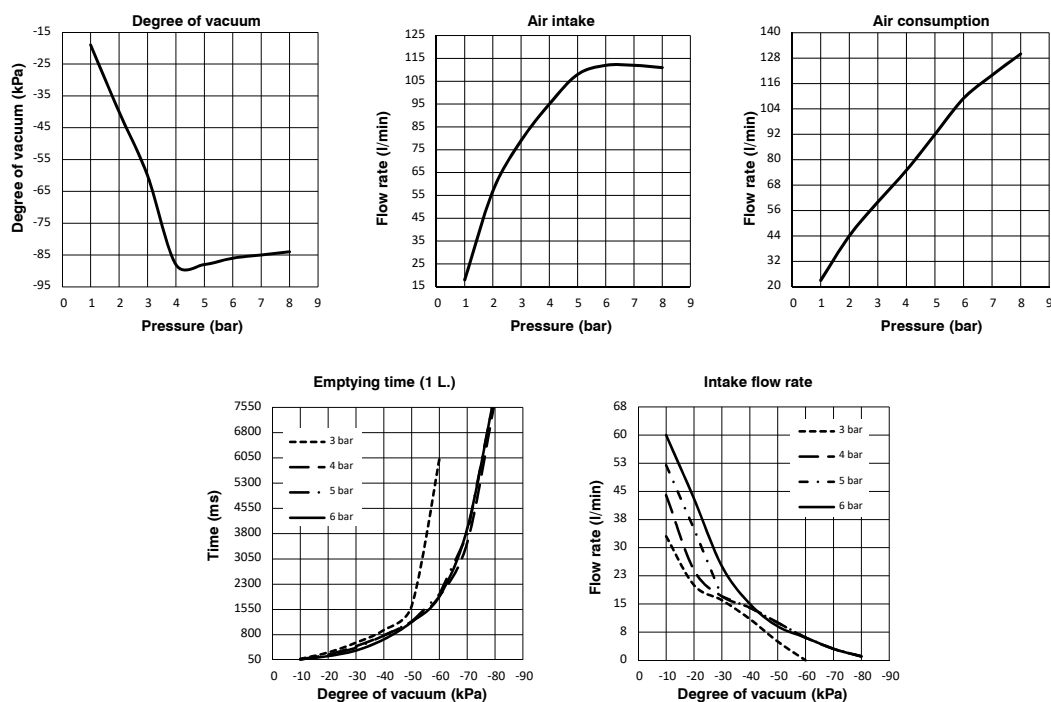


As a function of the modules (nozzles 2-4- 6-8) used, offer exactly the right performance for the most varied of industrial applications. They ensure a low level of noise thanks to the sound-absorbent material inside of them.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	40	88	86
Intake flow rate (l/min)	57	95	112
Air consumption (l/min)	44	75	109

Performance Charts

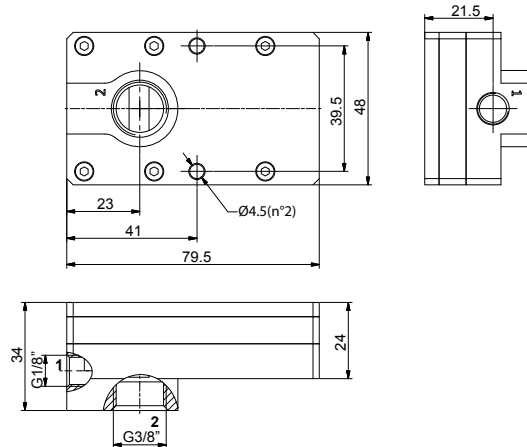


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	132

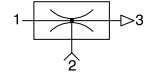
VACUUM GENERATORS

Multistage vacuum generator G3/8"



Ordering code

19M38.M.15.SS.00

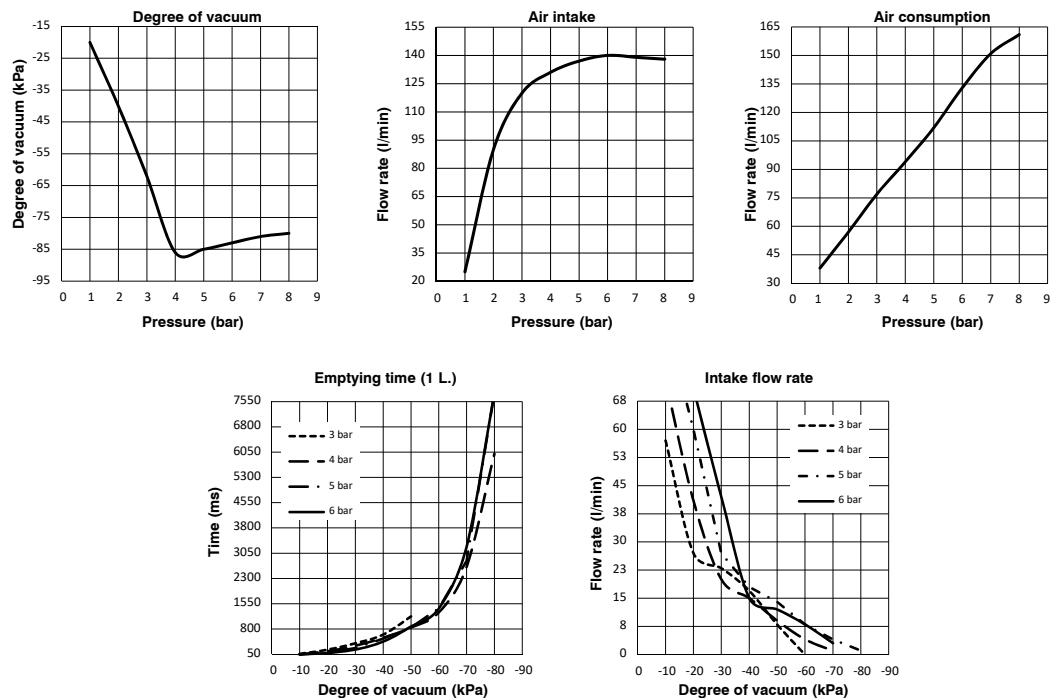


As a function of the modules (nozzles 2-4- 6-8) used, offer exactly the right performance for the most varied of industrial applications. They ensure a low level of noise thanks to the sound-absorbent material inside of them.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	40	86	83
Intake flow rate (l/min)	90	131	140
Air consumption (l/min)	57	94	133

Performance Charts

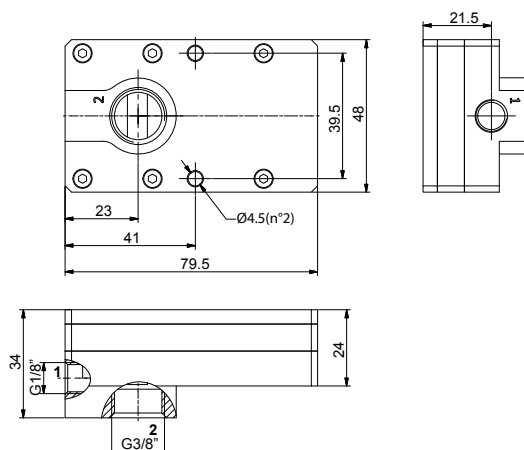


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	178

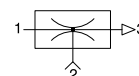
VACUUM GENERATORS

Multistage vacuum generator G3/8"



Ordering code

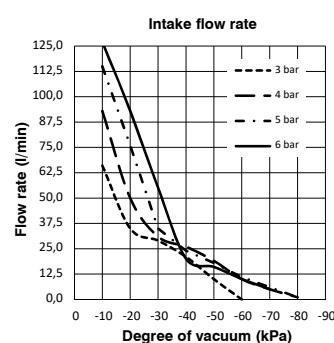
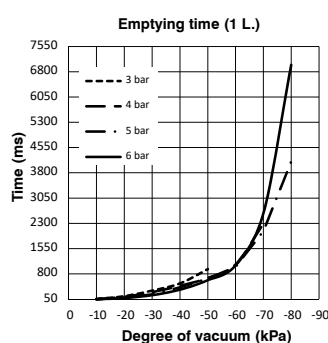
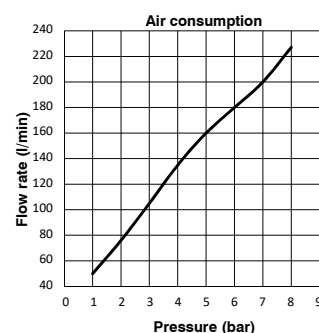
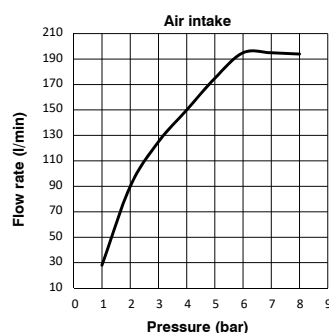
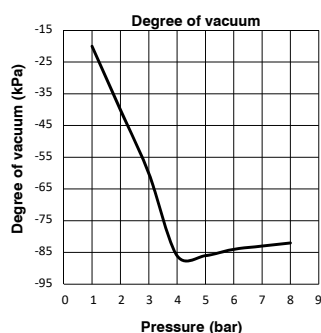
19M38.M.18.SS.00



As a function of the modules (nozzles 2-4- 6-8) used, offer exactly the right performance for the most varied of industrial applications. They ensure a low level of noise thanks to the sound-absorbent material inside of them.

Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	40	86	84
Intake flow rate (l/min)	90	150	195
Air consumption (l/min)	76	135	180



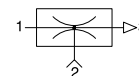
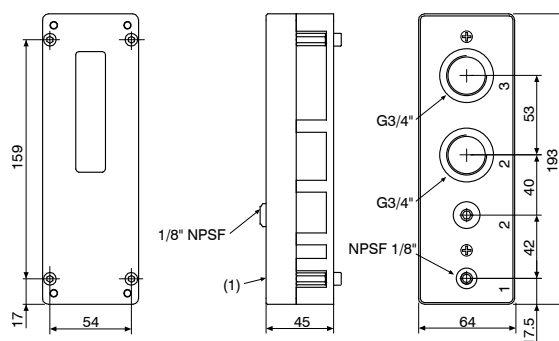
Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	1 ... 8
Temperature (°C)	-10 ... +80
Weight (g)	178

► Multistage high flow vacuum generator G3/4"

Ordering code

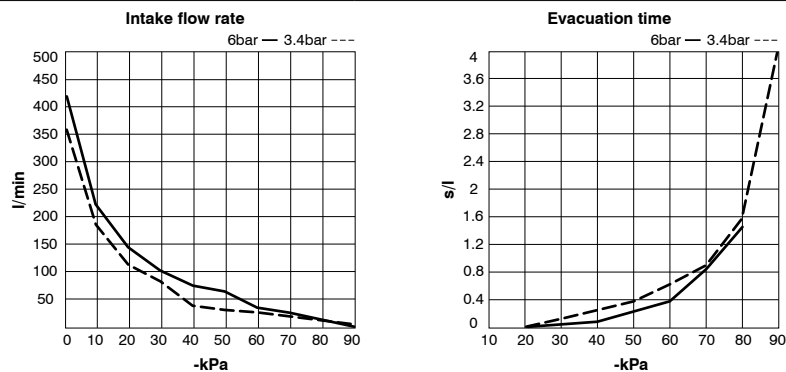
19T34.M.32.HF.QQ



Operational characteristics

Optimum inlet pressure (bar)	3.4
Inlet pressure (bar)	3.4 / 6
Degree of Vacuum (-kPa)	89 / 92
Intake flow rate (l/min)	360 / 420
Air consumption (l/min)	116 / 185

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)										Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	90	
3.4	116	360	180	115	80	43	30	22.5	15.5	7.5	1.2	92
6	185	420	240	125	100	82	65	38	12.5	3.5	/	89

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	90	
3.4	116	0.022	0.06	0.11	0.21	0.4	0.65	0.95	1.60	4	92
6	185	0.018	0.05	0.08	0.18	0.25	0.40	0.62	1.55	/	89

Technical characteristics

Fluid	Unlubricated filtered air
Inlet pressure (bar)	3,4 ... 6
Noise (dBA)	93
Temperature (°C)	-20 ... +80
Material	PPS, SS, PA, NBR
Weight (g)	675

Accessories

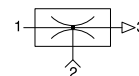
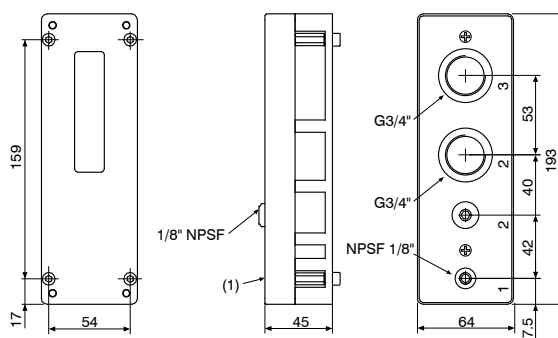
19S34.R	Reduced silencer G3/4"
19S34.S	Silencer G3/4"

VACUUM GENERATORS

Multistage high flow vacuum generator G3/4"

Ordering code

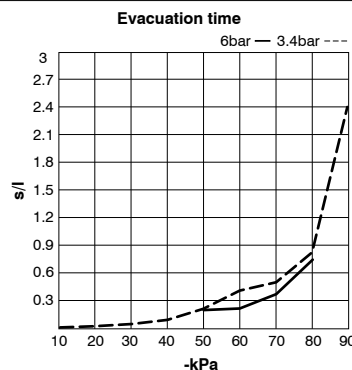
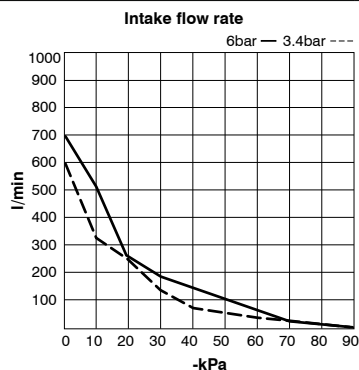
19T34.M.41.HF.QQ



Operational characteristics

Optimum inlet pressure (bar)	3.4
Inlet pressure (bar)	3.4 / 6
Degree of Vacuum (-kPa)	89 / 92
Intake flow rate (l/min)	600 / 700
Air consumption (l/min)	

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)										Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	90	
3.4	230	600	320	250	135	75	60	46	30	13	1.5	92
6	370	700	510	290	195	160	115	70	22	8	/	89

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	90	
3.4	230	0.014	0.031	0.06	0.10	0.20	0.34	0.50	0.80	2.5	92
6	370	0.01	0.022	0.048	0.08	0.11	0.20	0.35	0.78	/	89

Technical characteristics

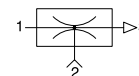
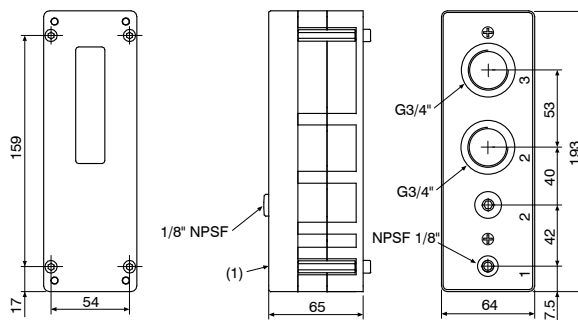
Fluid	Unlubricated filtered air
Max. inlet pressure (bar)	3.4 ... 6
Noise (dBA)	92
Temperature (°C)	-20 ... +80
Material	PPS, SS, PA, NBR
Weight (g)	675

Accessories

19S34.R	Reduced silencer G3/4"
19S34.S	Silencer G3/4"

► Multistage high flow vacuum generator G3/4"

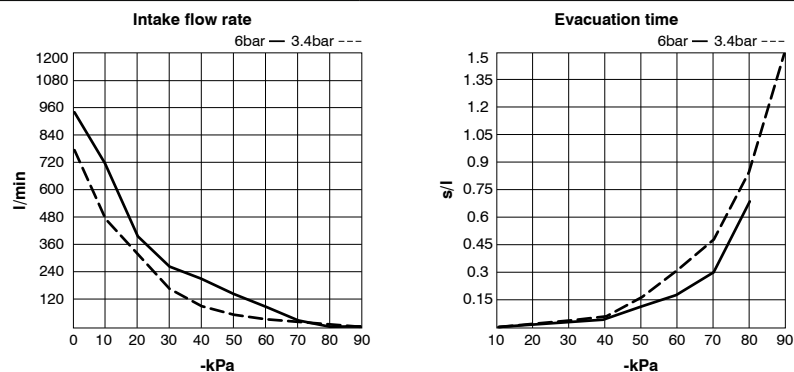
Ordering code

19T34.M.46.HF.QQ

Operational characteristics

Optimum inlet pressure (bar)	3.4
Inlet pressure (bar)	3.4 / 6
Degree of Vacuum (-kPa)	89 / 92
Intake flow rate (l/min)	760 / 950
Air consumption (l/min)	365 / 610

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)										Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	90	
3.4	365	760	445	340	175	110	85	70	43	20	1.8	92
6	610	950	710	380	285	230	170	100	32	11	/	89

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	90	
3.4	365	0.012	0.029	0.058	0.095	0.18	0.31	0.46	0.89	1.5	92
6	610	0.009	0.019	0.045	0.075	0.13	0.18	0.31	0.70	/	89

Technical characteristics

Fluid	Unlubricated filtered air
Max. inlet pressure (bar)	3,4 ... 6
Noise (dBA)	93
Temperature (°C)	-20 ... +80
Material	PPS, SS, PA, NBR
Weight (g)	837

Accessories

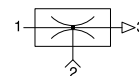
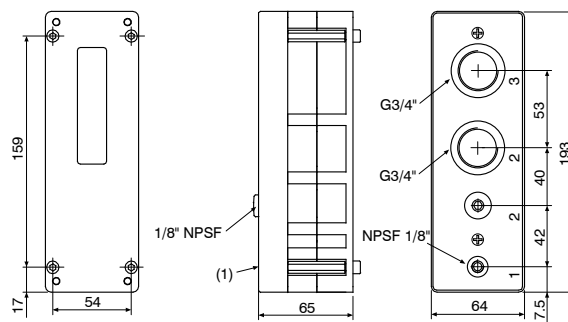
19S34.R	Reduced silencer G3/4"
19S34.S	Silencer G3/4"

VACUUM GENERATORS

Multistage high flow vacuum generator G3/4"

Ordering code

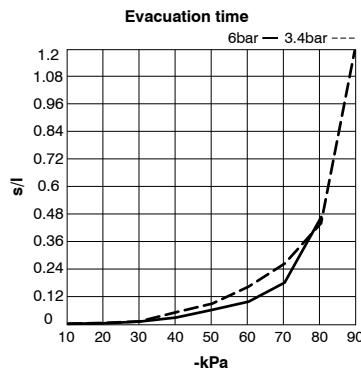
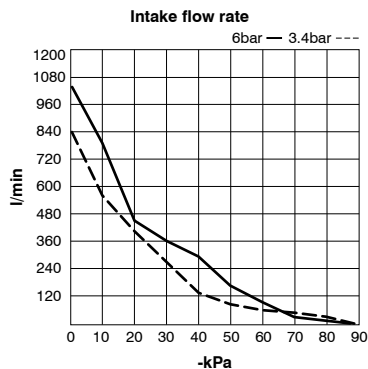
19T34.M.52.HF.QQ



Operational characteristics

Optimum inlet pressure (bar)	3.4
Inlet pressure (bar)	3.4 / 6
Degree of Vacuum (-kPa)	89 / 92
Intake flow rate (l/min)	850 / 1010
Air consumption (l/min)	445 / 720

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)										Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	90	
3.4	445	850	550	430	280	145	115	85	60	28	2.2	92
6	720	1010	800	460	385	310	215	125	42	15.5	/	89

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	90	
3.4	445	0.010	0.025	0.043	0.075	0.11	0.19	0.27	0.45	1.2	92
6	720	0.007	0.018	0.038	0.055	0.08	0.12	0.19	0.47	/	89

Technical characteristics

Fluid	Unlubricated filtered air
Max. inlet pressure (bar)	3.4 ... 6
Noise (dBA)	88
Temperature (°C)	-20 ... +80
Material	PPS, SS, PA, NBR
Weight (g)	837

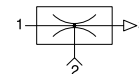
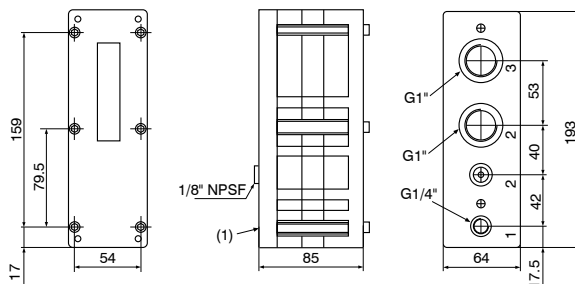
Accessories

19S34.R	Reduced silencer G3/4"
19S34.S	Silencer G3/4"

► Multistage high flow vacuum generator G1"

Ordering code

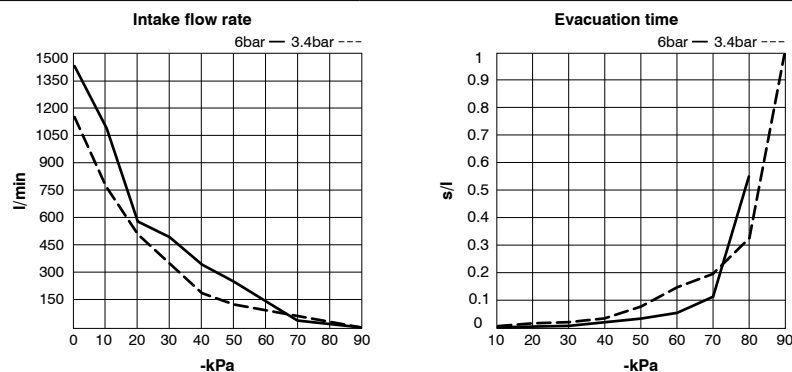
19TG1.M.58.HF.PP



Operational characteristics

Optimum inlet pressure (bar)	3.4
Inlet pressure (bar)	3.4 / 6
Degree of Vacuum (-kPa)	89 / 92
Intake flow rate (l/min)	1150 / 1400
Air consumption (l/min)	545 / 780

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)										Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	90	
3.4	545	1150	760	530	350	180	148	115	78	34.5	3.5	92
6	780	1400	1120	560	490	355	260	150	50	25	/	89

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	90	
3.4	545	0.006	0.015	0.029	0.052	0.085	0.145	0.202	0.330	1	92
6	780	0.005	0.013	0.026	0.045	0.062	0.115	0.194	0.56	/	89

Technical characteristics

Fluid	Unlubricated filtered air
Max. inlet pressure (bar)	3,4 ... 6
Noise (dBA)	92
Temperature (°C)	-20 ... +80
Material	PPS, SS, PA, NBR
Weight (g)	1075

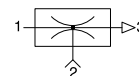
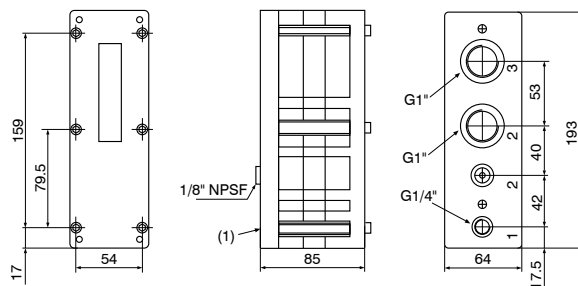
Accessories

19S10.R	Reduced silencer G 1"
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Multistage high flow vacuum generator G1"

Ordering code

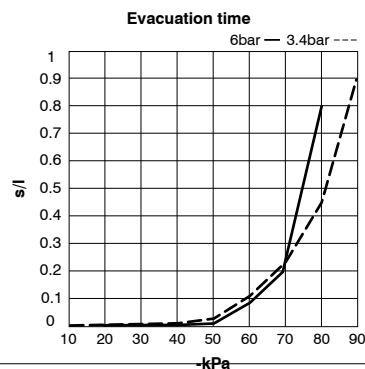
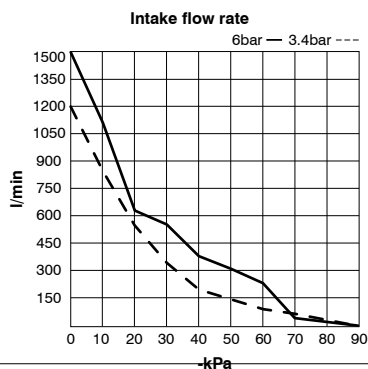
19TG1.M.61.HF.PP



Operational characteristics

Optimum inlet pressure (bar)	3.4
Inlet pressure (bar)	3.4 / 6
Degree of Vacuum (-kPa)	89 / 92
Intake flow rate (l/min)	1200 / 1500
Air consumption (l/min)	655 / 810

Performance Charts



Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)										Degree of Vacuum max. (-kPa)
		0	10	20	30	40	50	60	70	80	90	
3.4	655	1200	830	550	360	215	170	130	90	36	5	92
6	810	1500	1110	630	560	385	315	210	65	26	/	89

Inlet pressure (bar)	Air consumption (l/min)	Evacuation time (s/l) at different levels of vacuum (-kPa)									Degree of Vacuum max. (-kPa)
		10	20	30	40	50	60	70	80	90	
3.4	655	0.005	0.013	0.027	0.045	0.070	0.105	0.23	0.46	0.9	92
6	810	0.003	0.009	0.014	0.030	0.060	0.095	0.20	0.8	/	89

Technical characteristics

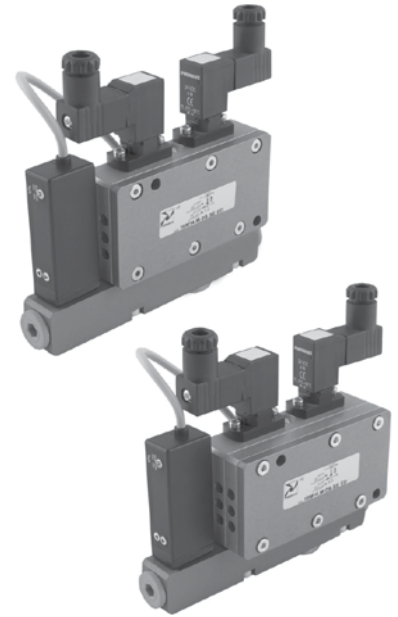
Fluid	Unlubricated filtered air
Max. inlet pressure (bar)	3.4 ... 6
Noise (dBA)	88
Temperature (°C)	-20 ... +80
Material	PPS, SS, PA, NBR
Weight (g)	1075

Accessories

19S10.R	Reduced silencer G 1"
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Multifunction vacuum generators

Vacuum units that can control a complete vacuum gripping system.



The range of multifunction vacuum generators are available in two versions, the “SE” & “ME”. The ‘SE’ can be installed as “stand alone” whilst the ‘ME’ version can be assembled with intermediate modules creating a multi position manifold which uses a single compressed air supply. The modular design allows the number of autonomous vacuum units to be increased as a function of requirements. They are constructed from a piece of anodised aluminium, and inside of this, the multiple ejectors are mounted and the vacuum chambers are fashioned, as well as threaded connections for supply.

The outside components are:

- A solenoid pilot valve for controlling the compressed air being supplied
- A solenoid pilot valve for controlling the compressed air from the bellows
- A vacuum switch with display for controlling and monitoring the system
- A flow regulator with setting screw for regulating the air of the bellows
- An intake manifold made of aluminium for the vacuum connections with the intake filter and check valve integrated inside it, serving to keep vacuum to be used should the electrical power or compressed air stop being supplied.

By activating the supply solenoid pilot valve, the generator creates vacuum that can be used, and when the maximum preset value is reached, the vacuum switch kicks in and, through the control solenoid pilot valve, cuts off the air supply and restores it when the vacuum value drops below the minimum set value.

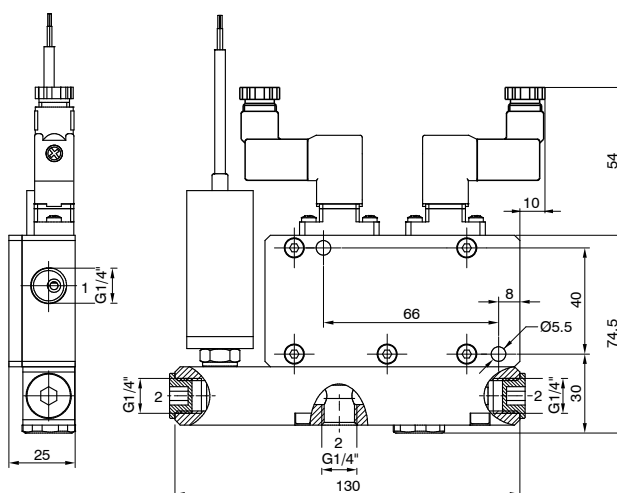
This modulation allows considerable savings of compressed air in addition to keeping the degree of vacuum within safety range.

A second vacuum switch signal, which is separate from the first one and is adjustable, can be used to start up the cycle when the degree of vacuum reached is that needed for the application.

Once the cycle has completed, the supply solenoid pilot valve for air supply to the generator powers down and at the same time the release solenoid pilot valve powers up to quickly restore atmospheric pressure within the circuit. This series of vacuum generators is suitable for controlling suction cup gripping systems for moving glass panes, marble slabs, ceramic slabs, plastic panels, cardboard boxes, wood panels, etc., and, given their particular shape, they lend themselves to applications in the industrial robotics sector where there is increasing demand for high-performance equipment and autonomous vacuum systems for controlling a greater number of gripping elements while keeping weight low and dimensions compact.

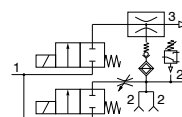
Series 1900

Multifunction vacuum generator



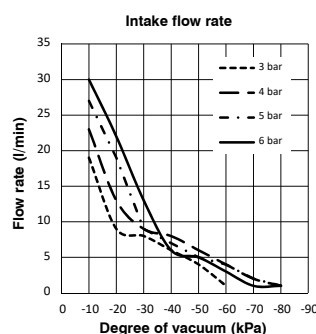
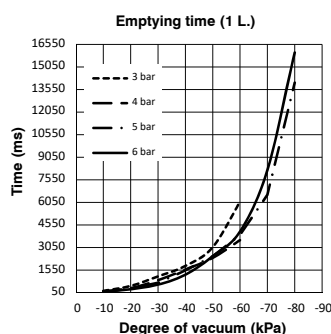
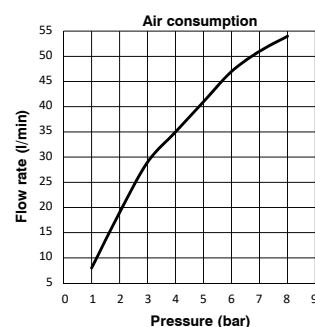
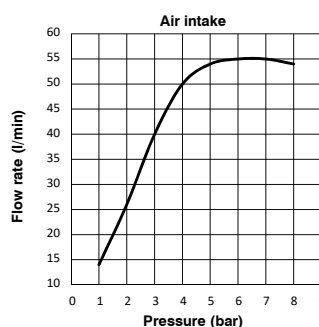
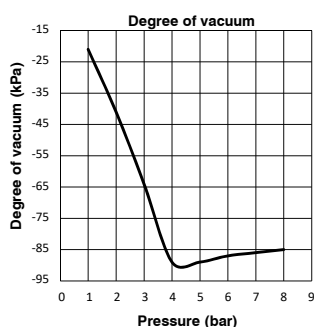
Ordering code	
19M14.M.09.SE.⊙	
OPTIONS	
ED	Solenoid valves + vacuum switch cable 2 Mt.
EF	Solenoid valves + vacuum switch cable 30 cm and connector M8
01	Solenoid valve without vacuum switch
02	Vacuum switch without back pressure valve
04	Without vacuum switch and back pressure valve
05	Vacuum switch cable 30 cm and connector M8 without back pressure valve

⊙



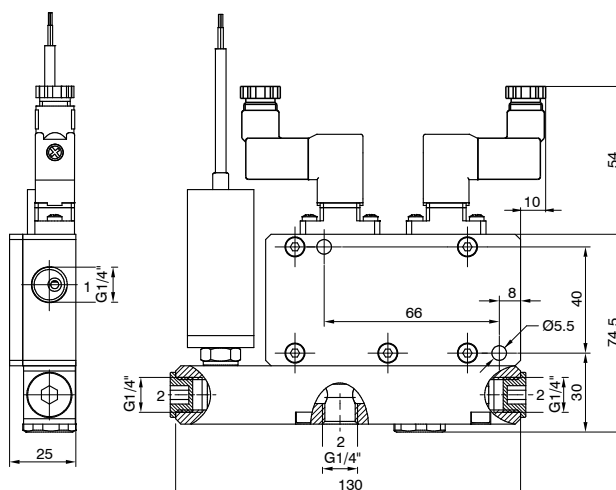
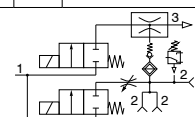
Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	41	89	87
Intake flow rate (l/min)	26	50	55
Air consumption (l/min)	19	35	47

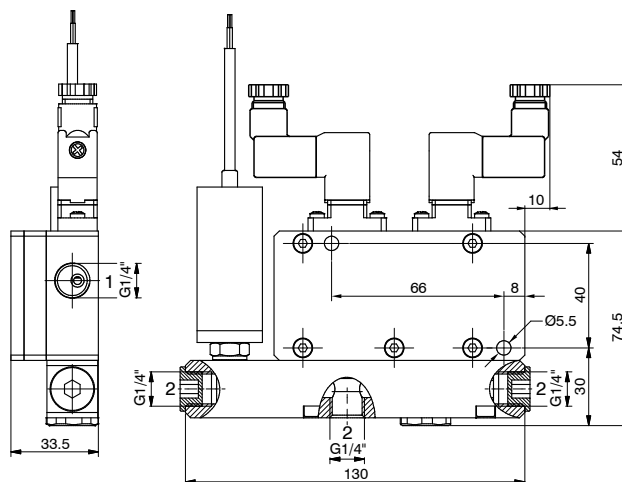


Technical characteristics

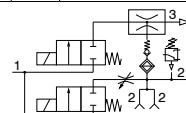
Fluid	Unlubricated filtered air
Pressure (bar)	0 ... 6
Inlet and release solenoid valve function	N.C.
Power consumption	4 Watt
Supply voltage	24 VDC
Solenoid valve - IP Rating	IP65
Vacuum switch output	2 PNP
Vacuum switch - IP Rating	IP40
Temperature (°C)	-10 ... +60
Weight (g)	538



Multifunction vacuum generator

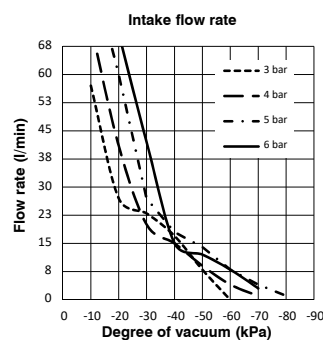
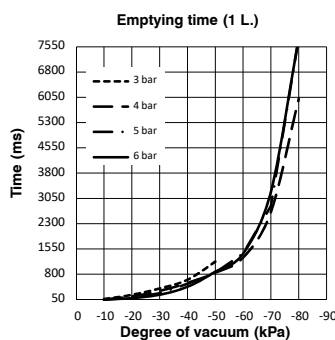
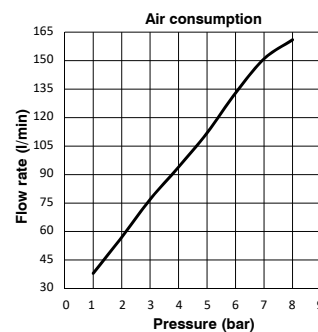
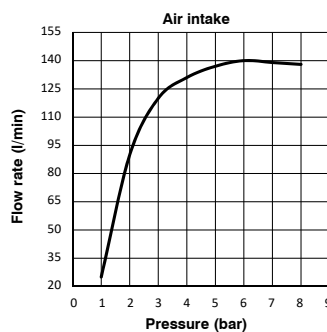
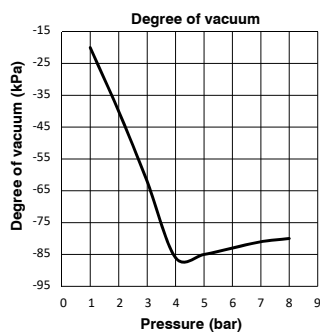


Ordering code	
19M14.M.15.SE.⊙	
OPTIONS	
ED	Solenoid valves + vacuum switch cable 2 Mt.
EF	Solenoid valves + vacuum switch cable 30 cm and connector M8
01	Solenoid valve without vacuum switch
⊙	
02	Vacuum switch without back pressure valve
04	Without vacuum switch and back pressure valve
05	Vacuum switch cable 30 cm without back pressure valve



Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	40	86	83
Intake flow rate (l/min)	90	131	140
Air consumption (l/min)	57	94	133

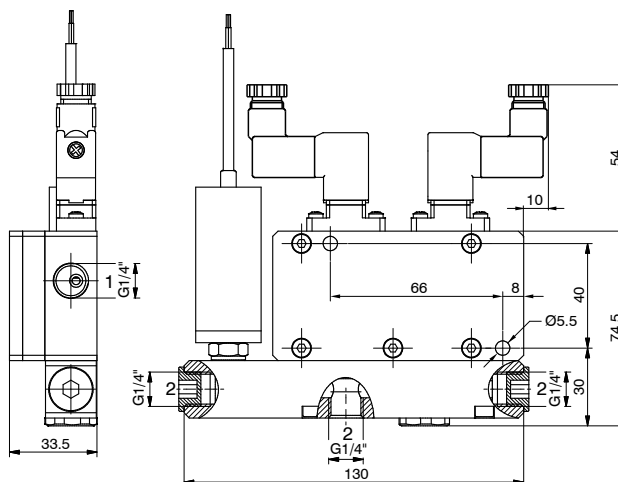


Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	0 ... 6
Inlet and release solenoid valve function	N.C.
Power consumption	4 Watt
Supply voltage	24 VDC
Solenoid valve - IP Rating	IP65
Vacuum switch output	2 PNP
Vacuum switch - IP Rating	IP40
Temperature (°C)	-10 ... +60
Weight (g)	661



Multifunction vacuum generator

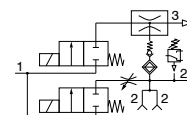


Ordering code

19M14.M.18.SE.⊙

OPTIONS

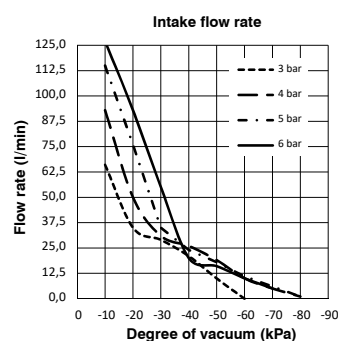
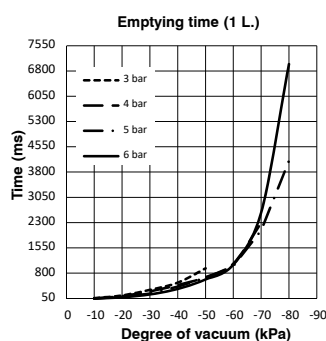
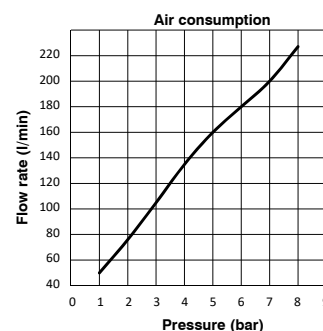
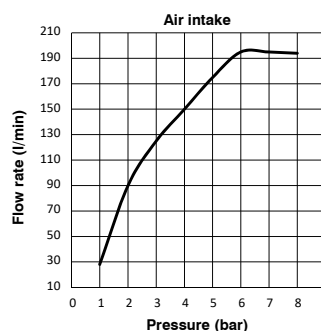
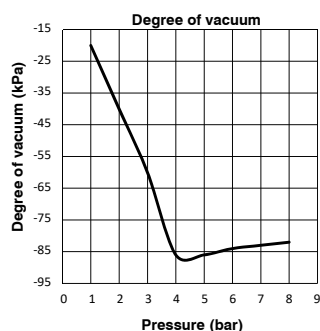
ED	Solenoid valves + vacuum switch cable 2 Mt.
EF	Solenoid valves + vacuum switch cable 30 cm and connector M8
01	Solenoid valve without vacuum switch
02	Vacuum switch without back pressure valve
04	Without vacuum switch and back pressure valve
05	Vacuum switch cable 30 cm and connector M8 without back pressure valve



Operational characteristics

Inlet pressure (bar)	2	4	6
Degree of Vacuum (-kPa)	40	86	84
Intake flow rate (l/min)	90	150	195
Air consumption (l/min)	76	135	180

Performance Charts



Technical characteristics

Fluid	Unlubricated filtered air
Pressure (bar)	0 ... 6
Inlet and release solenoid valve function	N.C.
Power consumption	4 Watt
Supply voltage	24 VDC
Solenoid valve - IP Rating	IP65
Vacuum switch output	2 PNP
Vacuum switch - IP Rating	IP40
Temperature (°C)	-10 ... +60
Weight (g)	661

VACUUM GENERATORS