

SINGLE-STAGE VACUUM GENERATORS 15 01 10 and 15 03 10

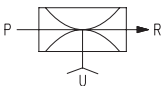
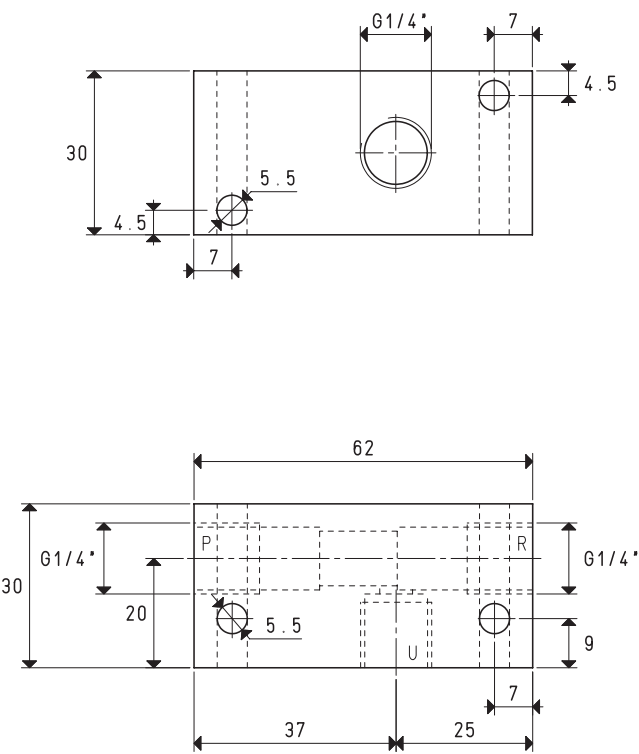
Single-stage vacuum generator operation is based on the Venturi principle.

Supplying the generator with compressed air in P, vacuum will be generated at connection U, while both the supply and the sucked air will be released through R.

By interrupting the air supply in P, the vacuum effect in U will also stop.

Vacuum generators 15 01 10 and 15 03 10 are generally used for controlling vacuum cups, for gripping and handling non-porous objects and equipment with low capacity requirements.

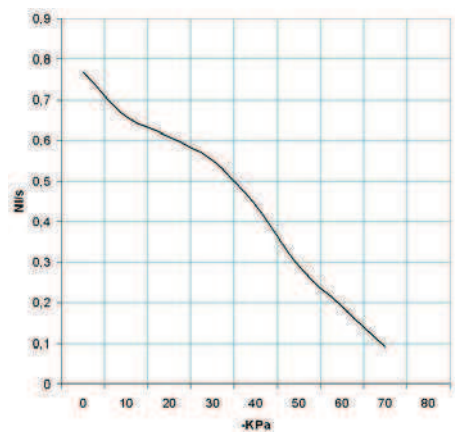
They are fully made with anodised aluminium.



P=COMPRESSED AIR CONNECTION		R=EXHAUST	U=VACUUM CONNECTION		0
Art.					15 01 10
Quantity of sucked air	cum/h	2.7	2.8	2.8	
Max. vacuum level	-kPa	55	70	83	
Final pressure	mbar abs.	450	300	170	
Supply pressure	bar (g)	4	5	6	
Air consumption	NI/s	0.7	0.8	0.9	
Working temperature	°C				-20 / +80
Noise level	dB(A)				63
Weight	g				140

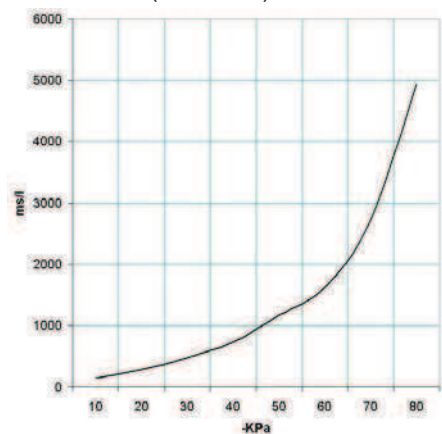
Note: All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

Air capacity (NI/s) at different vacuum levels (-Kpa)



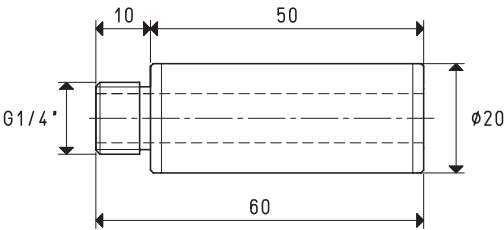
Generator art.	Supply press. bar (g)	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			0	10	20	30	40	50	60	70	80		
15 01 10	6.0	0.9	0.77	0.66	0.61	0.55	0.44	0.29	0.19	0.09	--		83

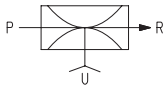
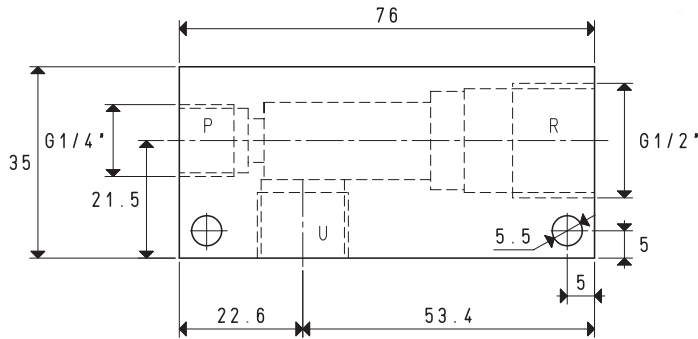
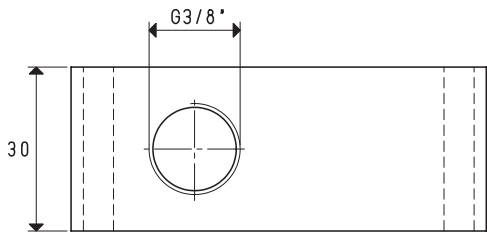
Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m³) at different vacuum levels (-KPa)								Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	
15 01 10	6.0	0.9	139	278	472	727	1171	1628	2720	4928	83

Accessories upon reques
Silencer art. SSX 1/4"

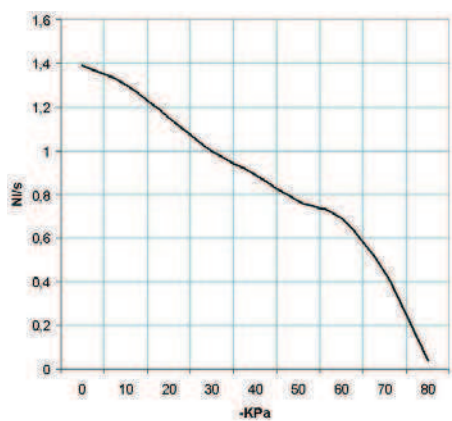




P=COMPRESSED AIR CONNECTION		R=EXHAUST	U=VACUUM CONNECTION	
Art.	15 03 10			
Quantity of sucked air	cum/h	4.8	5	5
Max. vacuum level	-KPa	62	78	85
Final pressure	mbar abs.	380	220	150
Supply pressure	bar (g)	4	5	6
Air consumption	NI/s	1.3	1.6	1.8
Working temperature	°C	-20 / +80		
Noise level	dB(A)	79		
Weight	g	179		

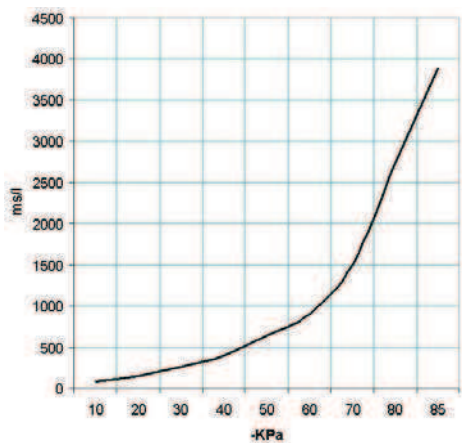
Note: All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

Air capacity (NI/s) at different vacuum levels (-Kpa)



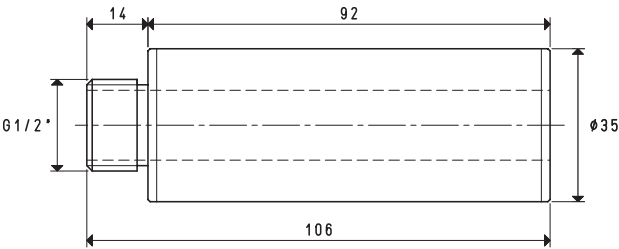
Generator art.	Supply press. bar (g)	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			0	10	20	30	40	50	60	70	80	85	
15 03 10	6.0	1.8	1.39	1.30	1.15	1.00	0.89	0.77	0.69	0.44	0.04	85	

Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)

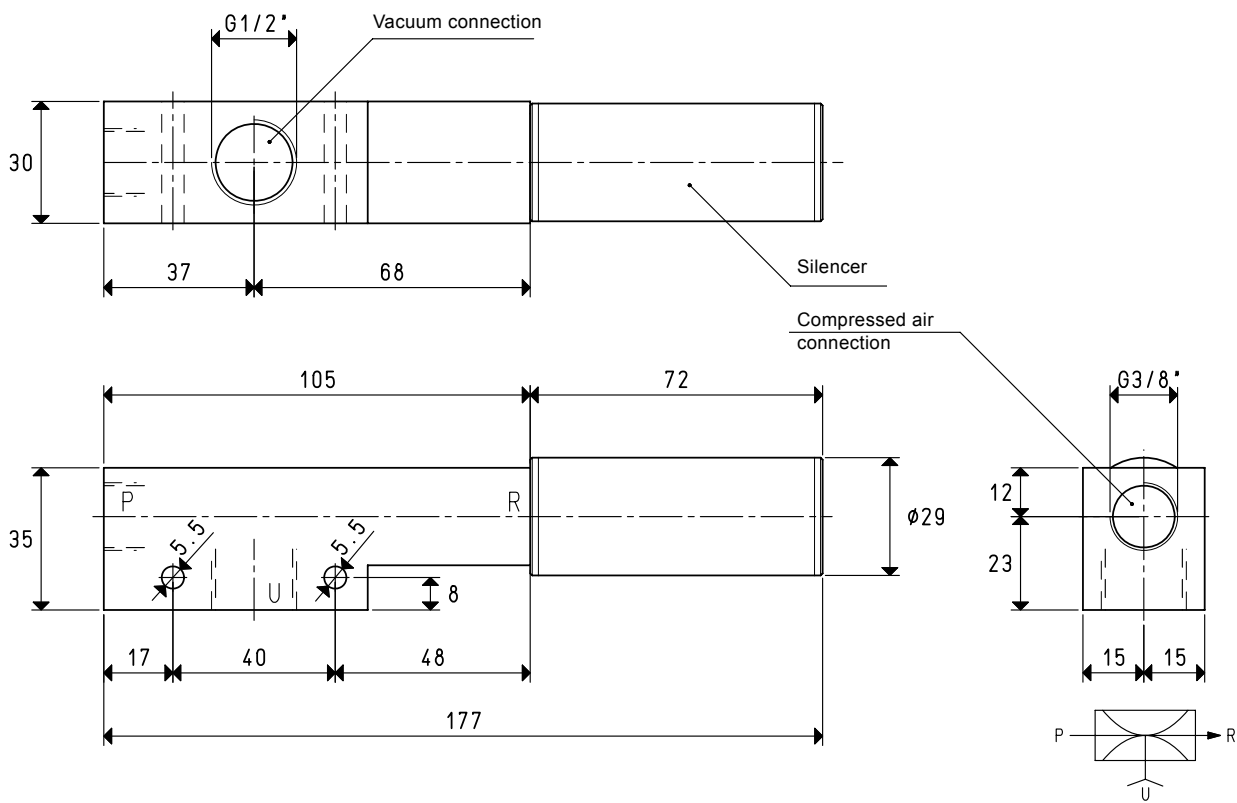


Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m³) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85	85	
15 03 10	6.0	1.8	77	154	261	403	649	902	1506	2730	3876	85	

Accessories upon req
Silencer art. SSX 1/2"



SINGLE-STAGE VACUUM GENERATORS 15 05 10 SX



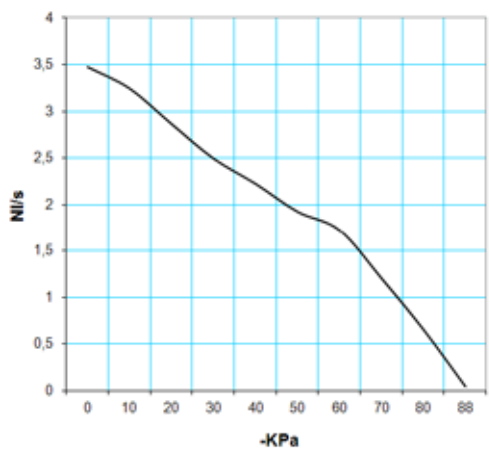
P=COMPRESSED AIR CONNECTION R=EXHAUST U=VACUUM CONNECTION

Art.		15 05 10 SX		
Quantity of sucked air	cum/h	12	12.2	12.5
Max. vacuum level	-KPa	40	60	88
Final pressure	mbar ass.	600	400	120
Supply pressure	bar	2	3	3.4
Air consumption	NI/s	3.7	5	5.5
Working temperature	°C			-20 / +80
Noise level	dBA			63
Weight	g			306
Spare parts				
Silencer	art.			SSX 3/8"

Note: All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

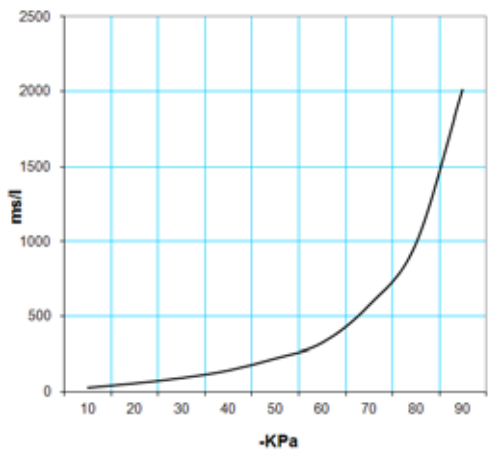
Conversion ratio: $\text{inch} = \frac{\text{mm}}{25.4}$; $\text{pounds} = \frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

GAS-NPT thread adapters available at page 1.117



AIR CAPACITY (NI/s) AT DIFFERENT VACUUM LEVELS (-KPa)

Generator art.	Supply press. bar	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level
			0	10	20	30	40	50	60	70	80	88	-KPa
15 05 10 SX	3.4	5.5	3.47	3.24	2.86	2.49	2.22	1.92	1.72	1.20	0.65	0.04	88



EVACUATION TIME (ms/l=s/m³) AT DIFFERENT VACUUM LEVELS (-KPa)

Generator art.	Supply press. bar	Air consumption NI/s	Evacuation time (ms/l = s/m3) at different vacuum levels (-kPa)									Max. vacuum level
			10	20	30	40	50	60	70	80	85	-kPa
15 05 10 SX	3.4	5.5	25	54	90	140	220	320	570	980	2012	82