



25

Pneumatic Linear Vibrators Series NTS



- Linear vibration
- Resistant against aggressive environmental conditions
- Nominal frequency from 827 min⁻¹ to 10,740 min⁻¹
- Centrifugal force from 19 N to 21,808 N
- Frequency and amplitude separately adjustable
- ATEX-compliant or stainless steel versions available
- Synchronous operation from NTS 350 possible



NTS 80



NTS 75/01



NTS 50/10



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Type	Housing material	Unbalance [cmkg]			Nominal frequency [min ⁻¹]			Centrifugal force [N]			Air consumption [l/min]	Sound level [db(A)] 2 bar - 6 bar
		2 bar	4 bar	6 bar	2 bar	4 bar	6 bar	2 bar	4 bar	6 bar		
NTS 80*	AL	0.009	0.009	0.009	5,280	6,900	8,820	19	22	33	7,5 - 24	70 - 82
NTS 120 HF*	AL	0.018	0.018	0.018	6,280	7,920	8,960	40	63	81	10 - 36	68 - 73
NTS 120 NF*	AL	0.038	0.046	0.046	3,871	4,510	5,095	32	52	66	7 - 19	66 - 72
NTS 180 HF*	AL	0.035	0.045	0.046	5,520	6,880	9,040	59	116	207	15 - 67	68 - 73
NTS 180 NF*	AL	0.138	0.149	0.163	3,000	4,160	4,880	68	141	212	14 - 57	66 - 72
NTS 250 HF*	AL	0.152	0.190	0.190	3,654	4,756	5,773	111	235	346	21 - 105	68 - 74
NTS 250 NF*	AL	0.402	0.475	0.542	2,328	3,100	3,894	119	251	451	20 - 99	68 - 72
NTS 350 HF*	AL	0.208	0.308	0.349	3,866	4,754	5,579	179	399	594	37 - 135	66 - 74
NTS 350 NF*	AL	0.756	0.932	0.992	2,412	3,077	3,663	241	486	733	26 - 110	65 - 70
NTS 100/01*	AL	0.330	0.430	0.410	3,920	4,640	5,840	281	513	764	33 - 181	68 - 80

NTS 75/01*	AL	1.01	1.31	1.44	2,848	3,596	4,038	451	934	1,291	99 - 442	67 - 81
NTS 50/01*	AL	2.18	2.62	2.66	1,924	2,408	2,825	442	834	1,164	88 - 416	76 - 84
NTS 70/02*	AL	2.81	2.77	3.04	2,096	2,808	3,336	676	1,186	1,847	128 - 564	76 - 87
NTS 54/02*	AL	4.54	5.51	5.07	1,730	2,064	2,544	745	1,288	1,800	152 - 698	80 - 89
NTS 50/04*	AL	7.9	9.8	9.7	1,920	2,296	2,672	1,591	2,844	3,789	271 - 977	77 - 86
NTS 21/04	AL	34.9	45.9	49.1	941	1,156	1,334	1,694	3,362	4,786	225 - 718	73 - 83
NTS 50/08*	AL	11.3	15.3	17.0	1,977	2,331	2,669	2,426	4,555	6,642	216 - 803	81 - 90

NTS 50/10	GG	14.5	17.9	18.9	1,983	2,392	2,809	3,128	5,626	8,174	454 - 1,647	82 - 92
NTS 30/10	GG	50.0	80.0	96.0	840	1,044	1,300	1,940	4,780	8,900	312 - 1,438	75 - 85
NTS 54/02*	GG	25.0	32.7	35.8	1,830	2,209	2,464	4,589	8,754	11,922	726 - 2,108	81 - 91
NTS 50/20	GG	24.7	34.2	37.3	1,823	2,252	2,591	4,511	9,527	13,737	887 - 2,491	81 - 92
NTS 30/20	GG	57.3	84.8	92.6	1,227	1,528	1,759	4,727	10,852	15,693	551 - 2,014	78 - 88
NTS 24/20	GG	94.2	126.6	144.8	936	1,176	1,388	4,515	9,596	15,290	642 - 2,083	75 - 80
NTS 50/40	GG	72.5	93.0	99.5	1,335	1,617	1,920	7,090	13,333	20,114	994 - 3,296	80 - 92
NTS 20/40	GG	218.9	286.7	302.3	827	985	1,147	8,227	15,239	21,808	1,340 - 4,252	77 - 89

The technical data are comparative values and can vary depending on the application. Further data on request.

* Devices for oil-free operation available.

Stainless steel vibrators
Series NTS S



Standard vibrators
Series NTS



ATEX-compliant vibrators
Series NTS E



Standard vibrators
Series NTS



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Type	A [mm]	A ₁ [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K Exhaust air	L Supply air	Exhaust air Page	Housing [kg]	Piston [kg]	Total [kg]	Housing type
NTS 80	52.0	-	Ø 19.0	SW 16	-	M 5	5.5	37.5	26.0	15.0	M 5	M 5	-	0.030	0.010	0.040	I
NTS 120 HF	70.0	97.5	Ø 27.5	SW 21	-	M 8	11	16.5	34.0	-	G 1/8	G 1/8	-	0.086	0.022	0.108	II
NTS 120 NF	97.5	125.0	Ø 27.5	SW 21	-	M 8	11	16.5	48.5	-	G 1/8	G 1/8	-	0.119	0.042	0.161	II
NTS 180 HF	73.0	108.0	Ø 33.5	SW 27	-	M 10	10	19.5	35.5	-	G 1/4	G 1/8	-	0.124	0.050	0.174	II
NTS 180 NF	110.0	145.0	Ø 33.5	SW 27	-	M 10	10	19.5	54.0	-	G 1/4	G 1/8	-	0.192	0.110	0.302	II
NTS 250 HF	98.0	146.0	Ø 41.5	SW 36	-	M 12	12	24.0	49.0	-	G 3/8	G 1/8	-	0.238	0.155	0.393	II
NTS 250 NF	141.0	189.0	Ø 41.5	SW 36	-	M 12	12	24.0	70.5	-	G 3/8	G 1/8	-	0.335	0.290	0.625	II
NTS 350 HF	99.0	147.0	Ø 53.0	SW 46	-	M 12	12	30.5	49.5	-	G 3/8	G 1/4	-	0.359	0.325	0.684	II
NTS 350 NF	145.0	193.0	Ø 53.0	SW 46	-	M 12	12	30.5	72.5	-	G 3/8	G 1/4	-	0.505	0.570	1.075	II
NTS 100/01	89.0	-	Ø 69.0	Ø 69	-	M 12	14	65.5	48.5	31.5	G 1/4	G 1/4	3	0.640	0.360	1.000	I

NTS 75/01	115	-	90	Ø 80	72	Ø 9	20	81	60	38	G 1/4	G 1/4	3	1,1	0,8	1,9	III
NTS 50/01	155	-	90	Ø 80	72	Ø 9	20	121	80	40	G 1/4	G 1/4	3	1,5	1,4	2,9	III
NTS 70/02	130	-	110	Ø 100	90	Ø 9	20	91	65	39	G 3/8	G 3/8	3	1,9	1,2	3,1	III
NTS 54/02	157	-	110	Ø 100	90	Ø 9	20	112	79	45	G 3/8	G 3/8	3	2,3	1,6	3,9	III
NTS 50/04	157	-	150	Ø 139	124	Ø 13	20	113	79	44	G 3/8	G 3/8	3	4,0	4,3	8,3	III
NTS 21/04	330	-	150	Ø 139	124	Ø 13	20	280	165	49	G 3/8	G 3/8	1 + 3	8,5	12,5	21	III
NTS 50/08	173	-	200	Ø 170	165	Ø 17	30	125	92	58	G 3/8	G 3/8	1 + 3	9,0	7,1	16,1	III

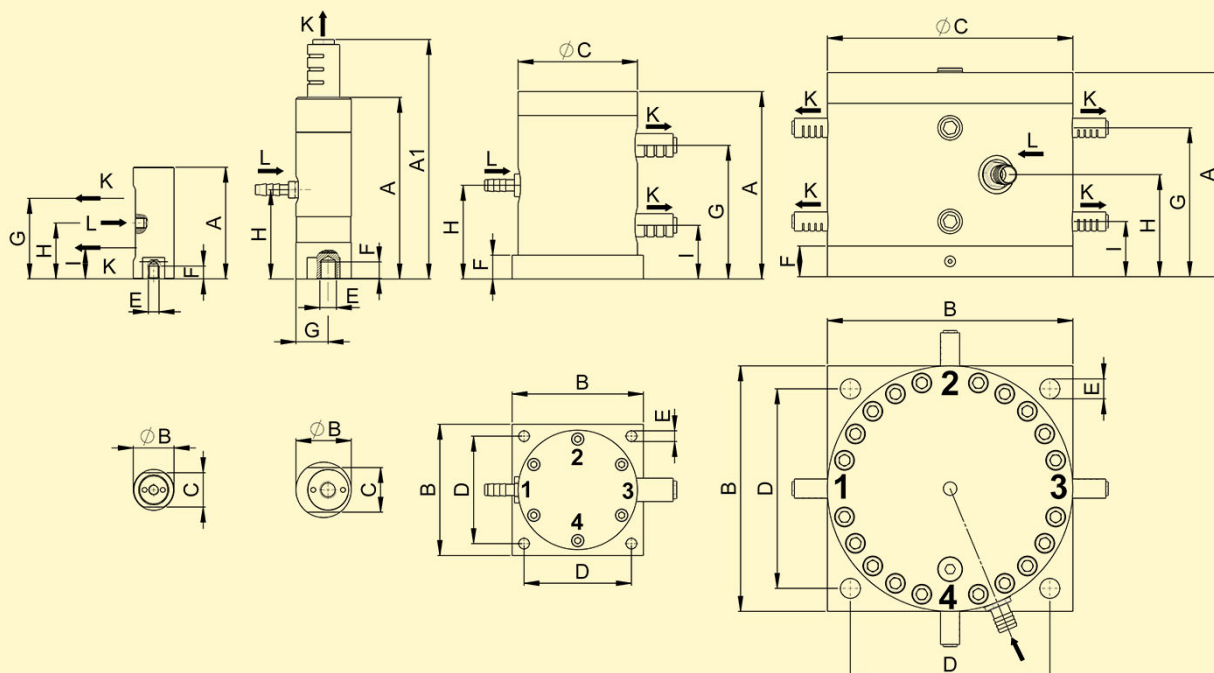
NTS 50/10	157	-	200	Ø 190	165	Ø 18	20	112	79	45	G 3/8	G 1/2	1 + 3	20,0	9,0	29,0	IV
NTS 30/10	340	-	200	Ø 190	165	Ø 18	20	289	170	52	G 3/8	G 1/2	1 + 3	41,0	25,0	66,0	IV
NTS 50/15	185	-	230	Ø 220	190	Ø 22	30	134	95	56	G 3/8	G 3/4	1 - 4	32,0	15,0	47,0	IV
NTS 50/20	190	-	250	Ø 250	210	Ø 22	30	134	95	57	G 3/8	G 3/4	1 - 4	42,0	19,0	61,0	IV
NTS 30/20	278	-	250	Ø 250	210	Ø 22	30	218	139	61	G 3/8	G 3/4	1 - 4	54,0	37,0	91,0	IV
NTS 24/20	360	-	250	Ø 250	210	Ø 22	30	298	180	62	G 3/8	G 3/4	1 - 4	68,0	54,0	122,0	IV
NTS 50/40	266	-	320	Ø 320	260	Ø 26	40	194	133	72	G 1/2	G 1	1 - 4	89,0	52,0	141,0	IV
NTS 20/40	470	-	320	Ø 320	260	Ø 25	40	392	235	78	G 1/2	G 1	1 - 4	134,0	125,0	259,0	IV

Housing type I
NTS 80 + 100/01

Housing type II
NTS 120 to 350

Housing type III
NTS 75/01 to 50/08

Housing type IV
NTS 50/10 to 20/40





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Pneumatic Linear Vibrators Series NTS



NTS 80 for filling small bottles



NTS 250 for sorting print publications



NTS 54/02 for improving material flow



NTS 50/04 as delivery aid on big bag



NTS 180 for labelling bottles



NTS 100/01 for spiral conveying of bulk materials

Application areas

Thanks to their completely linear vibration behaviour, the pneumatic linear vibrators series NTS are particularly suitable for conveying, compacting and loosening bulk materials. They are used for emptying bunkers and as drives for conveyor chutes and discharge feeders. A special feature of the NTS vibrators is the possibility of synchronisation of several vibrators. This is available from NTS 350 NF to NTS 50/08 as a special version, and as standard for the NTS 50/10 to NTS 20/40.

Design and function

The vibration (sinus-shaped) is generated by a freely oscillating, self-reversing piston. This vibration supports, facilitates or enables a variety of applications. NTS linear vibrators start and stop in any position without delay. In the vibrators with aluminum housing up to size 50/04 and in size 50/08, a built-in compression spring ensures a safe start when mounted horizontally. The vibration range can be adjusted by controlling an optional

throttle. Increasing the supply pressure causes an increase in frequency. A control valve is required for operation (not included in the scope of delivery). ATEX-compliant linear vibrators of the NTS series, equipment for oil-free operation and with stainless steel housing are available.

Permissible operating instructions

Drive medium:

Compressed air or nitrogen (filter $\leq 5 \mu\text{m}$), preferably with mist lubricant

Operating pressure:

2 bar to 6 bar

Ambient temperature:

5 °C bis 60 °C

NetterVibration offers the right accessories required for the mounting, installation and control of vibrators and impactors.

Netter provides solutions.

Consult our experienced application technicians.

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