



- **Efficient Vibration**
- **Low air consumption**
- **Low noise level**
- **instantly start & stop action**
- **Small dimensions**
- **Hygienic design**
- **Frequency & amplitude adjustment**
- **Can be supplied in ATEX**

NTS compressed air-driven piston vibrators, deliver an impressive force relative to its small size.

With instantly start & stop activation, the NTS vibrator is suitable for precise dosing of all types of materials and products in industry.

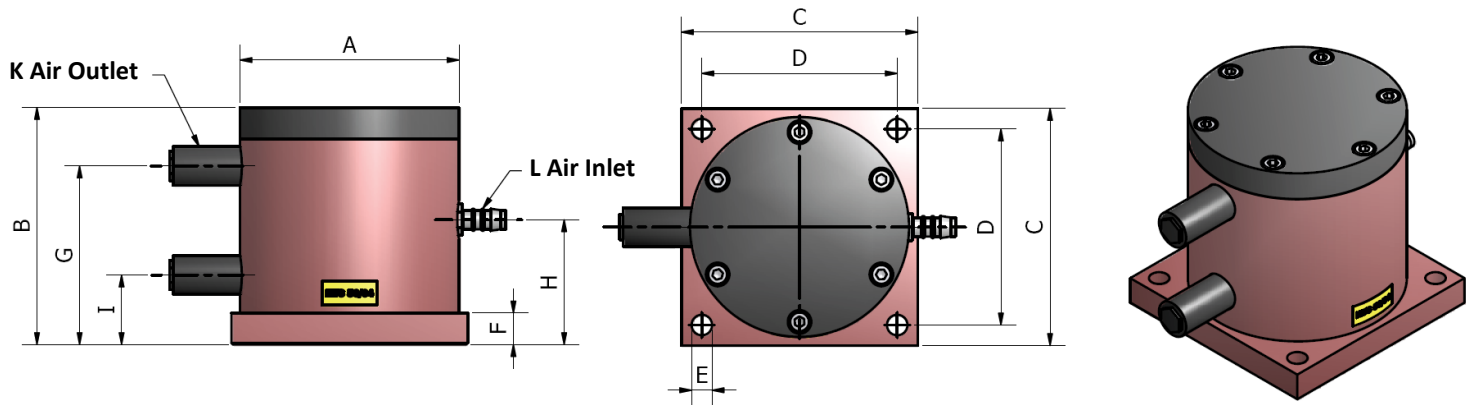
The quick and easy adjustment of frequency and amplitude, always ensure the best vibration for all applications.

Widely used on medium and big-sized hoppers, bins, chutes and pipes to ensure product flow, efficient vibration-transport or precise dosing.

Technical Specifications

Model	Materiale	Working Moment [cmkg]			Nominal Frequency [min ⁻¹]			Centrifugal Force [N]			Air Consumption	Noise Level [dB(A)]
		2 bar	4 bar	6 bar	2 bar	4 bar	6 bar	2 bar	4 bar	6 bar	2 bar – 6 bar	2 bar – 6 bar
NTS 100/01*	Alu	0,33	0,43	0,41	3.920	4.640	5.840	281	513	764	33 – 181	68 – 80
NTS 75/01*	Alu	1,01	1,31	1,44	2.848	3.596	4.038	451	934	1.291	99 – 442	67 – 81
NTS 50/01*	Alu	2,18	2,62	2,66	1.924	2.408	2.825	442	834	1.164	88 – 416	76 – 84
NTS 70/02*	Alu	2,81	2,77	3,04	2.096	2.808	3.336	676	1.186	1.847	128 – 564	76 – 87
NTS 54/02*	Alu	4,54	5,51	5,07	1.730	2.064	2.544	745	1.288	1.800	152 – 698	80 – 89
NTS 50/04*	Alu	7,90	9,80	9,70	1.920	2.296	2.672	1.591	2.844	3.789	271 – 977	77 – 86
NTS 21/04	Alu	34,90	45,90	49,10	941	1.156	1.334	1.694	3.362	4.786	225 – 718	73 – 83
NTS 50/08*	Alu	11,30	15,30	17,00	1.977	2.331	2.669	2.426	4.555	6.642	216 – 803	81 – 90
NTS 50/10	Stål	14,50	17,90	18,90	1.983	2.392	2.809	3.128	5.626	8.174	454 – 1.647	82 – 92
NTS 30/10	Stål	50,00	80,00	96,00	840	1.044	1.300	1.940	4.780	8.900	312 – 1.438	75 – 85
NTS 50/15	Stål	25,00	32,70	35,80	1.830	2.209	2.464	4.589	8.754	11.922	726 – 2.108	81 – 91
NTS 50/20	Stål	24,70	34,20	37,30	1.823	2.252	2.591	4.511	9.527	13.737	887 – 2.491	81 – 92
NTS 30/20	Stål	57,30	84,80	92,60	1.227	1.528	1.759	4.727	10.852	15.693	551 – 2.014	78 – 88
NTS 24/20	Stål	94,20	126,60	144,80	936	1.176	1.388	4.515	9.596	15.290	642 – 2.083	75 – 80
NTS 50/40	Stål	72,50	93,00	99,50	1.335	1.617	1.920	7.090	13.333	20.114	994 – 3.296	80 – 92

Pneumatic Vibrator NTS



Dimensions

Type	ØA [mm]	B [mm]	C [mm]	D [mm]	Ø E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K Air	L Air Inlet	Exhaust	Housing [kg]	Piston [kg]	Weight [kg]
NTS 100/01	69	87	Ø69	-	M12	20	65,5	48,5	31,5	G1/4	G1/4	3	0,64	0,36	1,0
NTS 75/01	80	115	90	72	9,0	20	81	60	38	G1/4	G1/4	2	1,1	0,8	1,9
NTS 50/01	79	155	90	72	9,0	20	121	80	40	G1/4	G1/4	2	1,5	1,4	2,9
NTS 70/02	100	130	110	90	9,0	20	91	65	39	G3/8	G3/8	2	1,9	1,2	3,1
NTS 54/02	100	157	110	90	9,0	20	112	79	45	G3/8	G3/8	2	2,3	1,6	3,9
NTS 50/04	139	157	150	124	13	20	113	79	44	G3/8	G3/8	2	4,0	4,3	8,3
NTS 21/04	140	330	150	124	13	20	280	165	49	G3/8	G3/8	2 + 4	8,5	12,5	21
NTS 50/08	170	173	200	165	17	30	125	92	58	G3/8	G3/8	2 + 4	9,0	7,1	16,1
NTS 50/10	190	157	200	165	18	20	112	79	45	G3/8	G1/2	2 + 4	20	9,0	29
NTS 30/10	190	340	200	165	18	20	289	170	52	G3/8	G1/2	2 + 4	41	25	66
NTS 50/15	220	185	230	190	22	30	134	95	56	G3/8	G3/4	1 - 4	32	15	47
NTS 50/20	250	190	250	210	22	30	134	95	57	G3/8	G3/4	1 - 4	42	19	61
NTS 30/20	250	278	250	210	22	30	218	139	61	G3/8	G3/4	1 - 4	54	37	91
NTS 24/20	250	360	250	210	22	30	298	180	62	G3/8	G3/4	1 - 4	68	54	122
NTS 50/40	320	266	320	260	26	40	194	133	72	G1/2	G 1	1 - 4	89	52	141
NTS 20/40	320	470	320	260	25	40	392	235	78	G1/2	G 1	1 - 4	134	125	259



Pneumatic Vibrator NTS

Applications

NTS Pneumatic linear vibrators is very suitable for:

- Compaction of all types products and material
- Vibration-transport in feeders and chutes
- Loosening adhesive products and materials
- Emptying medium and big sized hoppers
- Emptying and cleaning tubes and pipes

With the instantly start & stop action, the NTS is a very convincing drive for small and medium sized vibration feeders, chutes, sieves and for precise dosing of all products.

The NTS vibrator can even be synchronized with other units, for more powerful solutions

Function

The vibration (linear) is created by a freely oscillating, self reversing piston.

NTS linear vibrators start and stop instantly in any installed position. The noise level is lower than 80 dB(A). The frequency can be adjust-

Lubrication-Free

NTS Vibrators can be supplied lubrication-free operation, for applications where oil mist in the environment is no option.

Another solution could be leading away the exhaust air out of the area with a hose attached to the air outlet of the NTS vibrator.

Stainless Steel

NTS Vibrators can be supplied in stainless steel for extra demanding hygienic applications, such as in the pharmaceutical- and food

ATEX

NTS Vibrators can be supplied for EX environments, for zone 1 & 2 (Gas) and 21 & 22 (Dust)

ATEX Classified: Device Group II, Category: 2 G D 85° C (T6)

Also the necessary solenoid valves can be supplied for ATEX in 24V DC or 230 V AC

Lubrication-Free & ATEX

For special demanding applications, the NTS vibrator can be supplied for both lubrication-free and EX environments for zone 1 & 2 (Gas) and 21 & 22 (Dust)

ATEX Classified: Device Group II, Category: 2 G D 100° C (T5)

ed stepless by regulating the air supply.

The amplitude can be adjusted by throttling the exhaust air.

Design

Housing made of aluminium and piston in steel, all with hard anodized surfaces, which gives the NTS vibrators a superior resistance to corrosion and is very suitable in hygienic environments and productions.

The pistons and housings is individual precision customized, for a perfect match, that always ensures the best utilization of the compressed air and for maximum vibration power.

Operation

Normal operation with lubricated compressed air is required. But versions for lubrication-free operation can be supplied.

NTS vibrators is recommended to be operated with a 3/2-way valve for optimal start & stop activation.

Permissible operating conditions

Lubricated compressed air or nitrogen, filtered $\leq 5 \mu\text{m}$.

Operation Pressure: 2 to 6 bar

Ambient Temperature: 5° C. to 60° C.

Drive medium for Lubrication-Free operation:

Clean (0,01 μm filter), compressed air or nitrogen Compressed air quality requirements:

Lowest dew point: -40°C

Min. residual moisture 0,177 g/m3

Min. residual oil content: 0,003 mg/m3

The compressed air meets the quality class 1 according to DIN ISO 8573-1 for the max. oil content and the residual dust content, quality class 2 for the max. residual water content.

Recommended maintenance interval for NTS L vibrators:

After every 500 hours operation, the piston should be inspected and clean, to ensure a long life.



Emptying a hopper



Vibration table for compaction



Air treatment Units

Take full control over adjustment and compressed air quality with modular filter regulator and mist lubrication

Available in many sizes and combinations for all our pneumatic vibrators.



Solenoid Valve

The best solution for start & stop actuation of pneumatic vibrators

Available in many sizes and combinations for all our pneumatic vibrators



Springs

Stainless steel compression springs ensure the effective isolation of vibration in machinery and equipment so that only the desired components is vibrated.

Available in many sizes



Timer Control

For automated activation of vibrators, small and simple time control of vibrators.

Available electric 24V & 230V or pneumatic



Vibration Damper

With its low build-in height made in rubber, it easily integrated with existing machinery parts, thus providing an effective isolation of vibration.



Fittings & Tubing

All types and sizes of fittings, tubing, silencers and throttling valves can be supplied for complete solutions.