



- **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 small and medium-sized hoppers, bins, chutes and pipes to ensure product flow, efficient vibration-transport or precise dosing.

## Technical Specifications

Type	Working Moment [cmkg]			Nominal Frequency [min <sup>-1</sup> ]			Centrifugal Force [N]			Air Consumption [l/min]		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
<b>NTS 80</b>	0,008	0,008	0,008	6.360	9.420	10.740	19	42	51	20	45	70	88
<b>NTS 120 HF</b>	0,018	0,018	0,018	6.280	7.920	8.960	40	63	81	10	36	68	73
<b>NTS 120 NF</b>	0,038	0,046	0,046	3.871	4.510	5.095	32	52	66	7	19	66	72
<b>NTS 180 HF</b>	0,035	0,045	0,046	5.520	6.880	9.040	59	116	207	15	67	68	73
<b>NTS 180 NF</b>	0,138	0,149	0,163	3.000	4.160	4.880	68	141	212	14	57	66	72
<b>NTS 250 HF</b>	0,152	0,190	0,190	3.654	4.756	5.773	111	235	346	21	105	68	74
<b>NTS 250 NF</b>	0,402	0,475	0,542	2.328	3.100	3.894	119	251	451	20	99	68	72
<b>NTS 350 HF</b>	0,208	0,308	0,349	3.866	4.754	5.579	179	399	594	37	135	66	74
<b>NTS 350 NF</b>	0,756	0,932	0,992	2.412	3.077	3.663	241	486	733	26	110	65	70

# 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 small and medium 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 big NTS 350 NF 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 adjusted 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 pro-

ductions.

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.

## Design Features

- Fast & easy mounting with only one bolt
- Very small dimensions and weight
- Easy adjustment of frequency and stroke
- Hygienic design

## 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

### Drive medium:

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

### Operation Pressure:

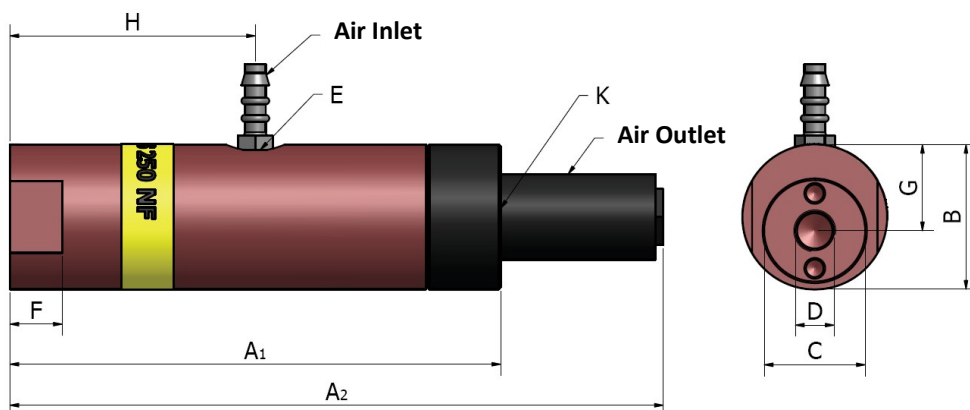
2 to 6 bar

### Ambient Temperature:

5° C. to 60° C.

## Dimensions

Type	A [mm]	A <sub>1</sub> [mm]	B [mm]	C [mm]	D [mm]	E Air Inlet	F [mm]	G [mm]	H [mm]	K Air Outlet	Housing [kg]	Piston [kg]	Total [kg]
NTS 80	-	52,0	19,0	SW 16	M5	M5	5,5	37,5	26,0	M5	0,030	0,010	0,040
NTS 120 HF	97,5	70,0	27,5	SW 21	M8	G1/8"	11	16,5	34,5	G1/8"	0,086	0,022	0,108
NTS 120 NF	125,0	97,5	27,5	SW 21	M8	G1/8"	11	16,5	48,5	G1/8"	0,119	0,042	0,161
NTS 180 HF	108,6	73,0	33,5	SW 27	M10	G1/8"	10	19,5	35,5	G1/4"	0,124	0,050	0,174
NTS 180 NF	146,5	110,5	33,5	SW 27	M10	G1/8"	10	19,5	53,8	G1/4"	0,192	0,110	0,302
NTS 250 HF	145,5	98,0	41,5	SW 36	M12	G1/8"	12	24,0	49,0	G3/8"	0,238	0,115	0,393
NTS 250 NF	190,0	141,0	41,5	SW 36	M12	G1/8"	12	24,0	70,5	G3/8"	0,335	0,290	0,625
NTS 350 HF	146,5	99,0	53,0	SW 46	M12	G1/4"	12	30,5	49,5	G3/8"	0,359	0,325	0,684
NTS 350 NF	193,0	145,0	53,0	SW 46	M12	G1/4"	12	30,5	72,5	G3/8"	0,505	0,570	1,075



# Pneumatic Vibrator NTS

## Stainless Steel

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

## 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 room with a hose attached to the air outlet of the NTS vibrator.

## 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

