

Quality in vibrators



Pneumatic vibrators for industries

Detailed technical data: www.findeva.com

- **Conveying**
- **Filling**
- **Compacting**
- **Separating**

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Quality and Innovation

Throughout over 60 countries worldwide, Findeva is a byword for high-quality vibrators and an expertise gained over many years. In every case, Findeva offers the best possible solution.



Advantages of Findeva vibrators and knockers:

- Excellent power to weight ratio
- High-quality aluminium housings, elaborate surface tooling: corrosion-resistant and easy to clean
- Low air consumption, frequency/impulse controllable by air pressure
- Sturdy and simple construction for long life and low maintenance costs
- Wide range covering over 70 models
- High availability of stock and fast delivery
- No risk of explosion
- Obtainable in ATEX

Technical Data:

Technical data was produced, unless otherwise stated, using a Kistler 3-axis dynamometer. Trials were carried out on a massive laboratory test block and displayed by means of a Kistler Control Monitor (COMO). Frequency and power decrease when less rigid bases are used. We reserve the right to improve, specifications or products without prior notice or obligation.

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Ball Vibrators K

**Ball vibrators, simple and good.
Wide range for many applications.**

Properties

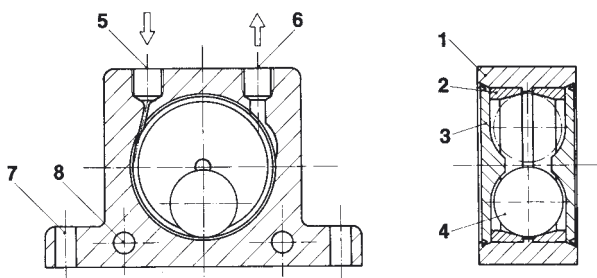
- Powerful
- Rated frequency 7'000 – 36'000 min⁻¹
- Centrifugal force 130 – 4'100 N
- Continuously variable (compressed air)
- Can be used at up to 100 °C
- 150 °C on request

Typical applications

- Emptying of bunkers
- Screen filters
- Vibrating tables
- Preventing adhesions in pipelines and silos
- Movement of goods

Construction

- Vibration by means of a ball that is passed through hardened-steel guides.
- Nylon plates on both sides to support the ball and as a protection from dust and water.
- Housing with 4 mounting bores, depending on the application.

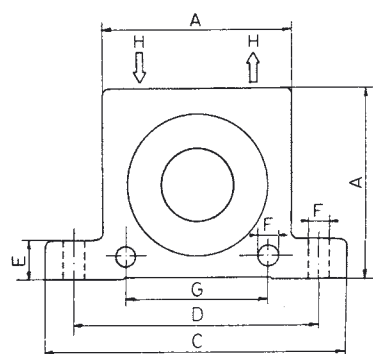


- 1 Housing made from extruded aluminium alloy
- 2 Hardened guides made of steel
- 3 Nylon end plates
- 4 Hardened ball
- 5 Air inlet
- 6 Air outlet
- 7 Base mounting bores
- 8 Sideways fitting bores

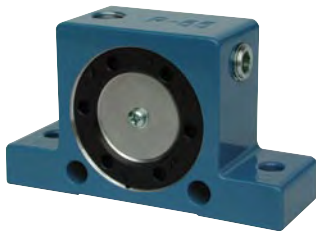
Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Centrifugal force N		Air consumption l min ⁻¹	
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars
K-8	25.5	35	130	360	83	195
K-10	22.5	34	250	710	92	200
K-13	15	22.5	320	870	94	225
K-16	13	19.5	450	1100	122	280
K-20	10.5	16.5	720	1720	130	340
K-25	9.2	14	930	2050	160	425
K-30	7.8	12.5	1510	3210	215	570
K-36	7.3	10	2060	4050	260	675

Sizes and weights in mm and g (more details and including inches at www.findeva.com)



Model	A	Width	C	D	E	F	G	H Thread BSP	Weight
K-8	50	20	86	68	12	7	40	1/4"	130
K-10	50	20	86	68	12	7	40	1/4"	130
K-13	65	24	113	90	16	9	50	1/4"	260
K-16	65	27	113	90	16	9	50	1/4"	300
K-20	80	33	128	104	16	9	60	1/4"	530
K-25	80	38	128	104	16	9	60	1/4"	630
K-30	100	44	160	130	20	11	80	3/8"	1130
K-36	100	50	160	130	20	11	80	3/8"	1340



Roller Vibrators R

Simply constructed high-frequency roller vibrators, wide range for many applications.

Properties

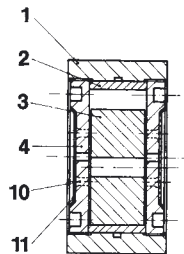
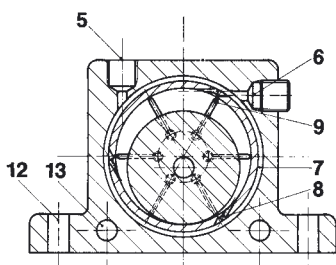
- High motive power
- Rated frequency 5'000 – 37'000 min⁻¹
- Centrifugal force 1'000 – 12'000 N
- Continuously variable (compressed air)
- Can be used at up to 150 °C
- Resistant to extreme environmental conditions

Typical applications

- Emptying of hoppers and chutes
- Screen filters
- Conveying of particulates
- Preventing adhesions in pipelines and silos
- Transport of fine powders
- Compacting of plastic and concrete in troughs

Construction

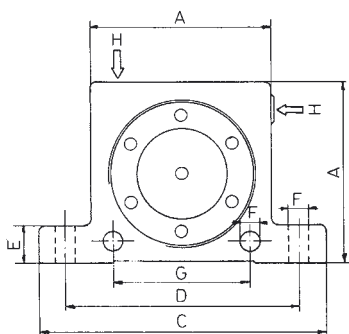
- Vibration created by a rotating precision-steel roller
- Shockproof plastic end plates
- Housing with 4 mounting bores, depending on the application



- 1 Housing made from extruded aluminium alloy
- 2 Cast iron strip
- 3 Steel roller
- 4 Plastic end plates
- 5 Vertical air entry
- 6 Horizontal air entry
- 7 Air channel
- 8 Air supply nozzles
- 9 Outlet openings
- 10 Outlet diffuser
- 11 Sound absorber plate
- 12 Base mounting bores
- 13 Sideways fitting bores

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Centrifugal force N		Air consumption l min ⁻¹	
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars
R-50	25.0	36.0	1070	4220	100	195
R-65	19.0	26.0	2730	6120	200	400
R-80	15.5	19.0	3000	7450	290	570
R-100	11.0	16.0	3750	8900	370	730
R-120	10.0	12.5	8000	12500	500	970



Sizes and weights in mm and g (more details and including inches at www.findeva.com)

Model	A	Width	C	D	E	F	G	H Thread BSP	Weight
R-50	50	29	86	68	12	7	40	1/8"	240
R-65	65	37	113	90	16	9	50	1/4"	545
R-80	80	43	128	104	16	9	60	1/4"	950
R-100	100	52	160	130	20	11	80	3/8"	1810
R-120	120	77	194	152	24	17	-	3/8"	4260



Roller Vibrators DAR

Roller vibrators, especially for concrete and other heavy-duty applications. Wide range.

Properties

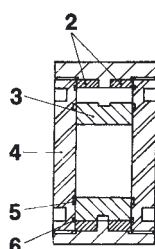
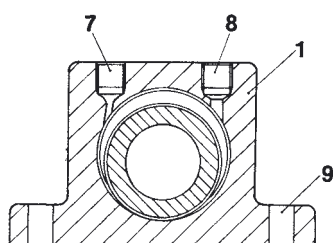
- High motive power
- Rated frequency 1'592 – 40'500 min⁻¹
- Centrifugal force 1'600 – 10'300 N
- Continuously variable (compressed air)
- Can be used at up to 150 °C
- Resistant to extreme environmental conditions

Typical applications

- Compacting of plastic and concrete
- Supporting the flow of material in silos and hoppers
- Separation of different sized products on sieves

Construction

- Vibration through rotating precision rollers in highly flexible steel guides
- Reinforced by two extra-shockproof bronze end plates

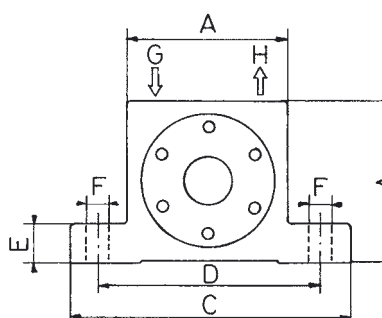


- 1 Housing made from extruded aluminium alloy
- 2 Highly flexible steel guides
- 3 Cast precision steel roller
- 4 Special bronze end plates
- 5 Lubricant ducts
- 6 Dirt removal ducts
- 7 Air inlet
- 8 Air outlet
- 9 Base mounting bores

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Centrifugal force N		Air consumption l min ⁻¹	
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars
DAR-2	36	38	2200	4090	70	200
DAR-3	27	32	2720	6050	100	300
DAR-4	18	25	2360	6690	120	360
DAR-5	9.5	16.5	1680	7200	130	390
DAR-6	7.8	12	4370	10300	170	470
DAR-7	8	11.5	5870	12000	180	500

Sizes and weights in mm and g (more details and including inches at www.findeva.com)



Model	A	Width	C	D	E	F	G/H Thread BSP	Weight
DAR-2	50	30	86	68	12	7	1/8"	370
DAR-3	65	36	113	68	16	9	1/4"	760
DAR-4	80	40	128	90	16	11	1/4"	1270
DAR-5	100	52	160	90	20	13	3/8"	2450
DAR-6	120	62	128	194	24	17	3/8"	4700
DAR-7	120	77	128	194	24	17	3/8"	5700



Turbine Vibrators T

High speed and high working torque for strong vibration at great amplitude. Wide range.

Properties

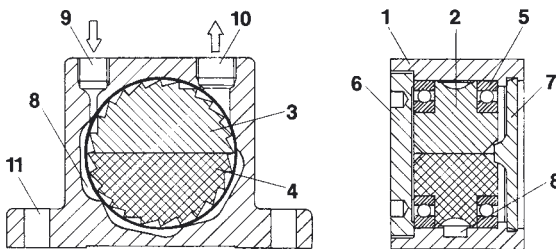
- Rated frequency 6'000 – 43'000 min⁻¹
- Centrifugal force 900 – 12'000 N
- Continuously variable (Compressed air)
- Can be used at up to 150 °C
- Resistant to extreme environmental conditions

Typical applications

- Emptying of bunkers
- Screen filters
- Vibrating tables
- Preventing adhesions in pipelines and silos
- Transport of fine powders
- Movement of bulk materials

Construction

- Vibration with a high eccentric torque, caused by the rotor's unbalance
- Low noise level

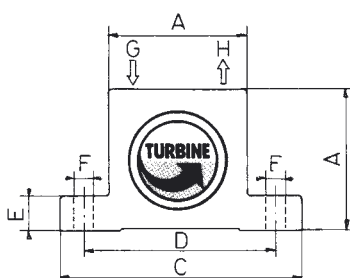


- 1 Housing made from extruded aluminium alloy with hard anodization
- 2 Turbine rotor
- 3 Aluminium = light
- 4 Brass = heavy
- 5 Ball bearing
- 6 Plastic end plate with screw thread
- 7 Nylon end plate
- 8 Speed channels
- 9 Air supply
- 10 Air outlet
- 11 Base mounting bores

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Centrifugal force N		Air consumption l min ⁻¹	
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars
T-50 / LP	17	23	700	1710	67	165
T-50 / HP	11	16.5	600	304	79	198
T-65 / LP	9.5	15	770	405	89	236
T-65 / HP	8.5	12	1300	2600	108	290
T-80 / LP	9	13	1840	3790	150	385
T-80 / HP	6.8	10.5	2000	4740	-	385
T-100 / HP	6.5	10	2480	6060	-	430

Sizes and weights in mm and g (more details and including inches at www.findeva.com)



Model	A	Width	C	D	E	F	G* Thread BSP	H Thread BSP	Weight
T-50 / LP	50	46	86	68	12	7	1/8"	1/4"	385
T-50 / HP	50	60	86	68	12	7	1/8"	1/4"	520
T-65 / LP	65	50	113	90	16	9	1/4"	1/4"	735
T-65 / HP	65	64	113	90	16	9	1/4"	1/4"	975
T-80 / LP	80	56	128	104	16	11	1/4"	3/8"	1210
T-80 / HP	80	70	128	104	16	11	1/4"	3/8"	1560
T-100 / HP	100	67	160	130	20	13	3/8"	3/8"	2270



Golden Turbines GT

High speed and eccentric working torques for strong vibration. Wide range.

Properties

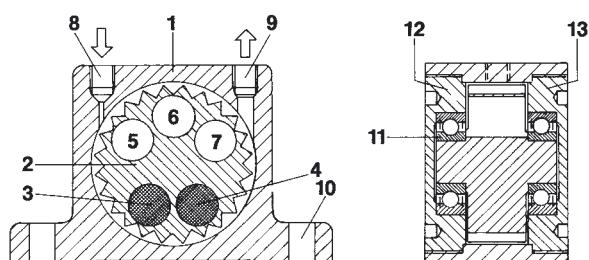
- Lubrication free
- Extremely quiet
- Strong vibration from high speeds and eccentric working torques
- Nominal frequency 6'000 – 46'000 min⁻¹
- Centrifugal force 500 – 12'000 N
- Continuously variable (compressed air)
- Can be used at temperatures up to 150 °C
- Resistant to extreme environmental conditions

Typical applications

- Bunker emptying
- Screen filter
- Vibrating tables
- Preventing adhesions in pipelines and silos
- Moving of bulk materials

Construction

- Vibration from the centrifugal force of positive and negative unbalanced torques in the rotor.
- Rotor on two pre-lubricated and enclosed ball bearings arranged in pairs. Lubricated with special grease for long life.

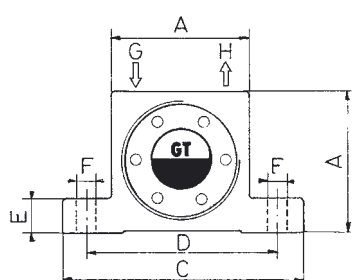


- 1 Housing made from extruded aluminium alloy
 - 2 Turbine wheel made from surface-hardened aluminium
 - 3-4 high-density inserts: positive torque
 - 5-7 openings for achieving negative torque
 - 8 Air supply
 - 9 Air outlet
 - 10 Base mounting bores
 - 11 Pre-lubricated and enclosed ball bearings arranged in pairs
- Surface-hardened aluminium end plates**
- 12 with left-hand thread
 - 13 with right-hand thread

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Centrifugal force N		Air consumption l min ⁻¹	
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars
GT-4	14	15	135	200	33	83
GT-6	11,5	12,5	130	210	33	83
GT-8	36	46	990	2910		
GT-10	27,5	37,5	840	1950	46	112
GT-10-S	17	25	650	304		
GT-13	26	33	1400	3730		
GT-16	17	24	1220	3160	120	290
GT16-S	11,5	17	1100	2700		
GT-20	17	23	2170	5520		
GT-25	12	17	2120	5070	185	455
GT-25-S	8,5	13	2250	4900		
GT-30	13	16	3380	7540		
GT-36	8	13	3290	7190	330	745
GT-36-S	6,1	8,3	4100	7500		
GT-40	7,7	9,5	4300	9800		
GT-48	6	9,7	4900	10500	425	970
GT-48-S	-	6,3	-	12000		

Sizes and weights in mm and g (more details and including inches at www.findeva.com)



Model	A	Width	C	D	E	F	G/H	Weight
GT-4 / 6	40	28	70	56	10,5	6	1/8"	170
GT-8 / 10	50	33	86	68	12	7	1/8"	255
GT-13 / 16	65	42	113	90	16	9	1/4"	580
GT-20 / 25	80	56	128	104	16	9	1/4"	1220
GT-30 / 36	100	73	160	130	20	11	3/8"	2530
GT-40 / 48	120	83	194	152	24	17	3/8"	3890



Stainless Turbines GTRF

Pneumatic turbine vibrators made from non-rusting steel.

Properties

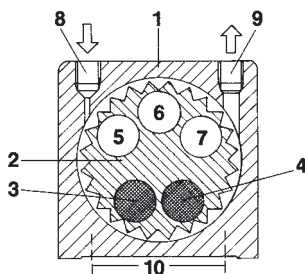
- Lubrication free
- Extremely quiet
- Heavy vibration by means of high speeds and eccentric working torques
- Nominal frequency 6'000 – 46'000 min⁻¹
- Centrifugal force 500 – 12'000 N
- Continuously variable (Compressed air)
- Can be used at temperatures up to 150 °C
- Resistant to extreme environmental conditions

Typical applications

- For foodstuffs and pharmaceuticals, FDA specifications
- Bunker emptying
- Screen filter
- Vibrating tables
- Preventing adhesions in pipelines and silos
- Moving of bulk materials

Construction

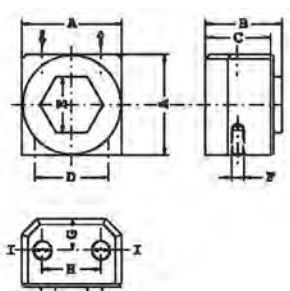
- Vibration from the centrifugal force of positive and negative unbalanced torques in the rotor.
- Rotor on two pre-lubricated and enclosed ball bearings arranged in pairs.
- Made from non-rusting steel 316 (4435.0) and lubricated with special grease for long life.



- 1 Stainless steel housing
- 2 Turbine wheel made from surface-hardened aluminium
- 3-4 high-density inserts: positive torque
- 5-7 openings for achieving negative torque
- 8 Air supply
- 9 Air outlet
- 10 Base mounting bores

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Centrifugal force N		Air consumption l min ⁻¹	
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars
GT-10-RF	27.0	37.0	750	2100	46	112
GT-16-RF	20.0	27.5	1700	3700	120	290
GT-25-RF	14.0	19.5	2500	5700	185	455



Sizes and weights in mm and g (more details and including inches at www.findeva.com)

Model	A	Width	C	D	E	F	G	Weight
GT-10-RF	49	38	32	36	27	M 6	1/8"	525
GT-16-RF	64	45	39	48	36	M 8	1/4"	1002
GT-25-RF	78	55	49	60	50	M 10	1/4"	1807



Piston-Vibrators FP

Pneumatic piston vibrators for linear vibration with unlimited fine-tuning facilities for amplitude and frequency. Wide range.

Properties

- Quiet and efficient
- Nominal frequency 1'800 – 9'500 min⁻¹
- Centrifugal force 30 – 6'150 N
- Frequency and amplitude can be regulated
- Can be used at temperatures up to 150 °C
- Resistant to extreme environmental conditions
- Extremely low noise level

Typical applications

- Driving conveyor and discharge chutes
- Loosening or compacting of bulk materials
- Starting up of mechanical processes
- Filling facilities

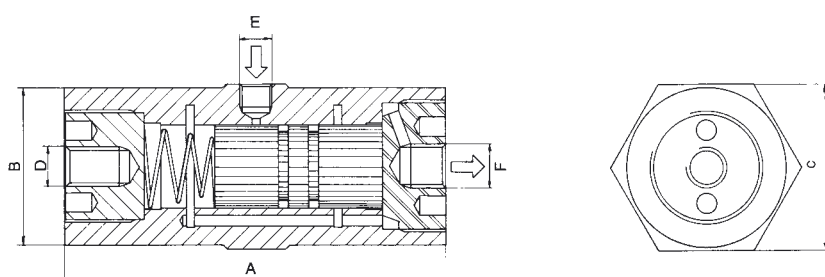
Construction

Aluminium housing surface-hardened and corrosion-resistant

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Power N		Air consumption l min ⁻¹		A Length mm	C SW mm	D Thread	E Inlet	F Outlet
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars					
FP-12-S	6,2	9,3	34	92	0,8	25	71	34	M-8	1/8"	1/8"
FP-12-M	5	6,7	34	74	0,5	19	81	34	M-8	1/8"	1/8"
FP-12-L	4	5,4	32	81	1	20	94	34	M-8	1/8"	1/8"
FP-18-S	5	7,7	66	187	5	57	81	42	M-10	1/8"	1/8"
FP-18-M	4	5,9	68	188	4	52	94	42	M-10	1/8"	1/8"
FP-18-L	3,1	4,6	64	206	5	46	109	42	M-10	1/8"	1/8"
FP-25-S	3,6	5,5	126	416	13	93	98	50	M-12	1/8"	1/4"
FP-25-M	3	4,2	142	504	23	87	116	50	M-12	1/8"	1/4"
FP-25-L	2,4	3,7	186	594	18	93	136	50	M-12	1/8"	1/4"
FP-35-S	3,8	5,8	294	1038	23	162	98	65	M-12	1/4"	1/4"
FP-35-M	3	4,6	248	1080	24	141	116	65	M-12	1/4"	1/4"
FP-35-L	2,4	3,6	282	1066	38	135	136	65	M-12	1/4"	1/4"
FP-50-M	1,85	2,8	490	1660	48	192	154				
FP-60-M	1,95	2,7	610	2170	90	275	154				
FP-95-M	1,8	2,8	1620	6150	170	490	156				

Housing made from hard-anodized aluminium alloy
 Piston made from leaded-bronze
 Steel spring starting device
 Sound-absorbing air outlet system
 Hard anodized aluminium base
 Threaded insert for mounting purposes





Piston-Vibrators FPLF

Lubrication free pneumatic piston vibrators for a linear vibration with unlimited fine-tuning facilities for amplitude and frequency. Wide range.

Properties

- Efficient
- Nominal frequency 1'800 – 9'500 min⁻¹
- Centrifugal force 30 – 6'150 N
- Frequency and amplitude can be regulated
- Can be used at temperatures up to 150 °C
- Resistant to extreme environmental conditions
- Extremely low noise level

Typical applications

- Foodstuffs and pharmaceuticals
- Driving conveyor and discharge chutes
- Loosening or compacting of bulk materials
- Starting up of mechanical processes
- Filling facilities

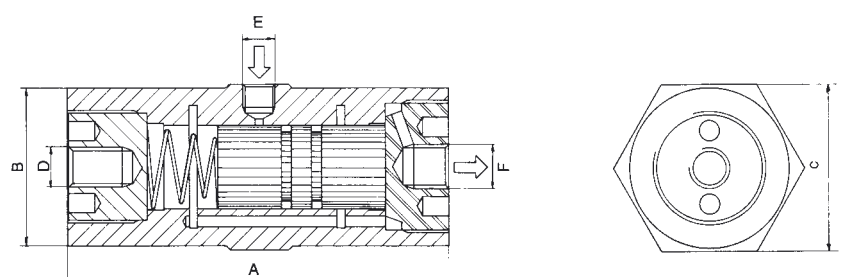
Construction

- Lubrication free operation possible.
- Extra hard and corrosion-resistant surface through aluminium oxide-generated by titaniferous electrolyte.
- Ideally suited for foodstuffs, drinks and pharmaceuticals.

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Power N		Air consumption l min ⁻¹		A Length mm	C SW mm	D Thread	E Inlet	F Outlet
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars					
FPLF-12-S	6,2	9,3	34	92	0,8	25	71	34	M- 8	1/8"	1/8"
FPLF-12-M	5	6,7	34	74	0,5	19	81	34	M- 8	1/8"	1/8"
FPLF-12-L	4	5,4	32	81	1	20	94	34	M- 8	1/8"	1/8"
FPLF-18-S	5	7,7	66	187	5	57	81	42	M-10	1/8"	1/8"
FPLF-18-M	4	5,9	68	188	4	52	94	42	M-10	1/8"	1/8"
FPLF-18-L	3,1	4,6	64	206	5	46	109	42	M-10	1/8"	1/8"
FPLF-25-S	3,6	5,5	126	416	13	93	98	50	M-12	1/8"	1/4"
FPLF-25-M	3	4,2	142	504	23	87	116	50	M-12	1/8"	1/4"
FPLF-25-L	2,4	3,7	186	594	18	93	136	50	M-12	1/8"	1/4"
FPLF-35-S	3,8	5,8	294	1038	23	162	98	65	M-12	1/4"	1/4"
FPLF-35-M	3	4,6	248	1080	24	141	116	65	M-12	1/4"	1/4"
FPLF-35-L	2,4	3,6	282	1066	38	135	136	65	M-12	1/4"	1/4"
FPLF-50-M	1,85	2,8	490	1660	48	192	154				
FPLF-60-M	1,95	2,7	610	2170	90	275	154				
FPLF-95-M	1,8	2,8	1620	6150	170	490	156				

Housing made from hard-anodized aluminium alloy
 Piston made from leaded-bronze
 Steel spring starting device
 Sound-absorbing air outlet system
 Hard anodized aluminium base
 Threaded insert for mounting purposes





Piston-Vibrators FAL (lubrication free) and VTL

Pneumatic piston vibrators for linear vibration with unlimited fine-tuning facilities for amplitude and frequency. Wide range.

Properties

- Quiet and efficient
- Nominal frequency 2'400 – 9'500 min⁻¹
- Centrifugal force 30 – 1'100 N
- Frequency and amplitude can be regulated
- Can be used at temperatures up to 150 °C
- Resistant to extreme environmental conditions (FAL)
- Extremely low noise level

Typical applications

- Foodstuffs and pharmaceuticals lubrication free version (FAL)
- Driving conveyor and discharge chutes
- Loosening or compacting of bulk materials
- Starting up of mechanical processes
- Filling facilities

Construction

- With a freely flying piston, the tapered end of which protrudes from the vibrator's housing.
- Lubrication free operation possible (FAL).
- Its optimum power to weight ratio makes its employment in producing conveying impulses particularly efficient.
- Extra hard and corrosion-resistant surface through aluminium oxide – generated by titaniferous electrolyte (FAL).

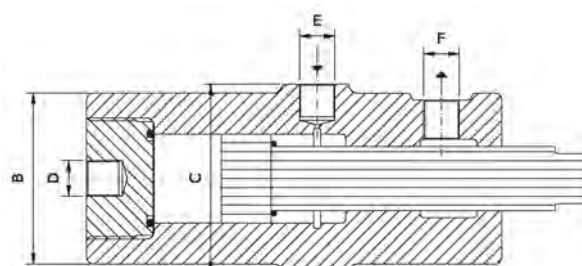
Steel housing: Series VTL 165, 255 405, 555, 855.

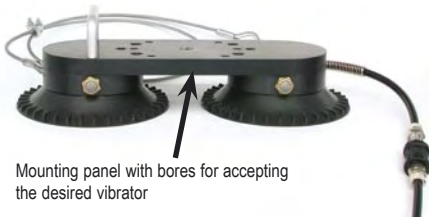
Plastic housing: VTL 155.

Technical Data (in detail and with PSI, LBS, CF: www.findeva.com)

Model	Vibrations 1000 min ⁻¹		Power N		Air consumption l min ⁻¹		A Length mm	C SW mm	D Thread	E Inlet	F Outlet
	2 bars	6 bars	2 bars	6 bars	2 bars	6 bars					
FAL-8	2,05	3,4	12	42	8	30	91	23	M- 6	M-5	M-5
FAL-18	1,42	2,25	60	205	20	60	117	50	M-10	1/8"	1/8"
FAL-25	1,13	2,02	120	530	40	155	139	65	M-16	1/4"	1/4"
FAL-35	1,24	2,01	205	655	75	350	140		M-16	1/4"	1/4"
VTL-155	1,8	2,7	40	96	18	85	114		M-10	1/8"	1/8"
VTL-165	1,9	2,6	43	96	17	70	111		M-10	1/8"	1/8"
VTL-255	1,6	2,2	80	400	56	180	140		M-16	1/4"	1/4"
VTL-405	1,4	2,0	200	650	80	390	140		M-16	1/4"	1/4"
VTL-555	1,6	2,5	450	1305	140	717	125		M-20	3/8"	3/8"
VTL-855	1,8	2,6	700	1530	301	900	122		M-20	3/8"	3/8"
VTL-1105	2,1	3,0	1550	2740	345	920	122		M-20	1/2"	3/8"

Housing made from hard-anodized aluminium alloy, steel or plastic
 Piston made from leaded-bronze or steel
 Threaded insert for mounting purposes





Vacuum Clamps

The flexible solution - attach, vibrate, remove

Properties

- Rapid and flexible solution for temporary placement of the vibrator
- Sturdy and simple construction
- Simple connection, together with a vibrator, to a compressed air supply

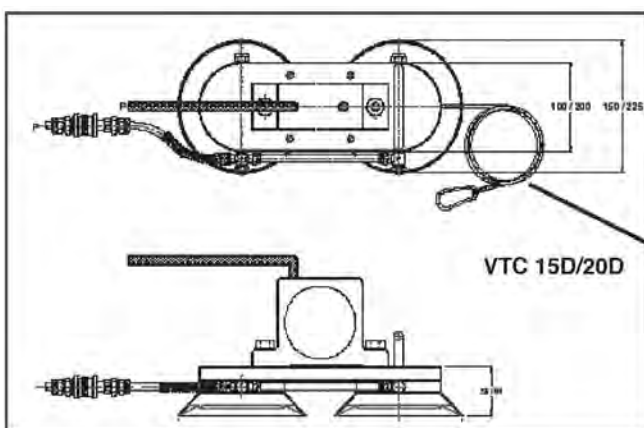
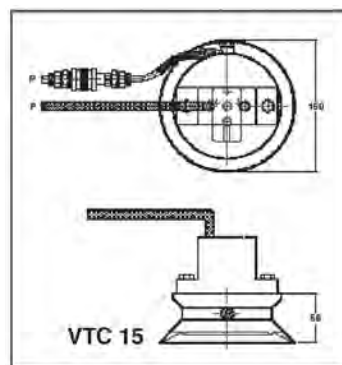
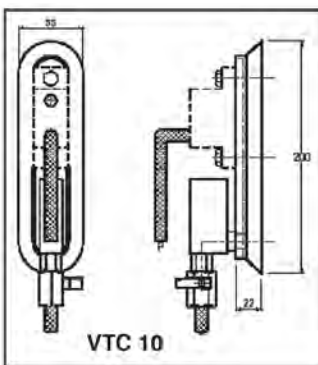
Typical applications

Any place where short-term vibrating needs to be carried out: on silos, transport containers or pipes. A smooth, neat and not too curved surface improves the grip of vacuum mountings.

Construction

Compressed air operated suckers, single, double (Series D), or triple in a triangular arrangement (Series T) with mounting plate for accepting the vibrator and possibly the compressed-air conditioning device.

Model	Number of suckers	Suitable Vibrators	Minimum- ϕ of surface
VTC-10	1	DAR-2 • K-8/10 • GT-4/6/8/10 • FP(LF)-12/18-S/M/L • R-50 • T-50-LP/HP VTL-155/165 • FAL-18	100 mm
VTC-15	1	DAR-2/3 • K-8/10/13/16 • GT-4/6/8/10/13/16 • FP(LF)-12/18-S/M/L • R-50/65 T-50/65-LP/HP • VTL-155/165/255 • FAL-18/25	500 mm
VTC-15D	2	DAR-4 • K20/25/30/36 • GT 20/25/30 • FP(LF)25/35/-S/M/L • FP(LF)-50-M R-80 • T-80-LP/HP • FAL-25/35	650 mm
VTC-20D	2	DAR-5 • GT-30/36/40/48 • FP(LF)-60-M • R-100 • T-100-HP • VFP-50/04	950 mm
VTC 20T	3	VFP 50/10	5000 mm





Knockers FKL si

For powerful impacts at low operating pressure.

Properties

- Wide range of settings for impact power and interval
- Impact force can be set pneumatically and/or by mechanical means
- Flexible range of applications

Typical applications

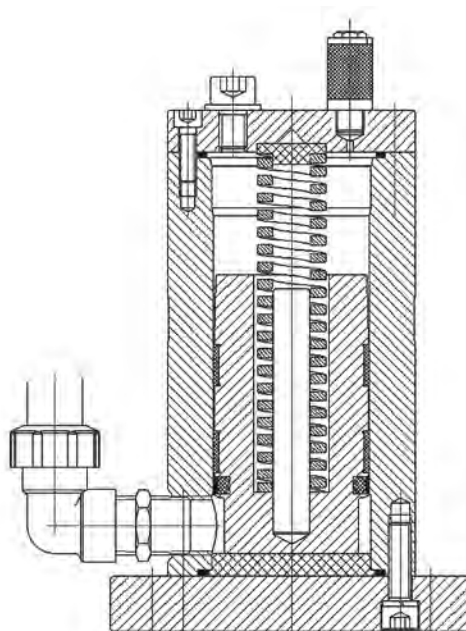
Wide range of uses, including in the open air, and in wet or explosion risk areas. For knocking off material adhesions on container walls, such as in silos, hoppers, filter outlets, reactors and pipelines.

Construction

Compressed air pushes a piston against a spring. When air pressure is rapidly vented, the piston shoots against a baffle plate. Mechanical impact regulation is provided by limiting the piston's stroke by means of an inserted threaded rod. Knocker housing made from aluminium, baffle plate from impact resistant plastic.

Technical Data (in detail: www.findeva.com)

Model	Pressure bars	Work/ Impact Nm	Impulse/ Impact Ns	Air consumption l min ⁻¹	For Wall thickness up to mm	Weight kg
FKL 100 si	3.5-7.5	10-50	1-10.5	0.5-1.1	5	4.5
FKL 150 si	4.5-7.0	50-110	1-28.5	1.2-1.7	8	9.5
FKL 200 si	4.2-7.5	100-200	1-57.5	2.2-3.3	12	14.8



Housing made of hard-anodized aluminium alloy
 Steel piston
 Baffle plate made of impact-resistant plastic



Knockers FKL mi

Automatic control.

Impact force can be set.

(Employed in the same situations as the FKL si)

Properties

- Wide range of settings for impact force and interval
- Impact force can be set
- Flexible range of applications

Typical applications

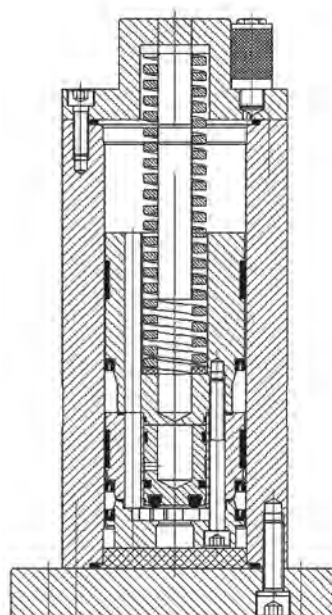
Wide range of uses, including in the open air, and in wet or explosion risk areas. For knocking off material adhesions on container walls such as in silos, hoppers, filter outlets, reactors and pipelines.

Construction

Compressed air pushes a piston against a spring. When air pressure is rapidly vented, the piston shoots against a baffle plate made of impact-resistant special plastic. The piston closes the air channel and the procedure is repeated at the speed set by means of a butterfly valve.

Technical Data (in detail: www.findeva.com)

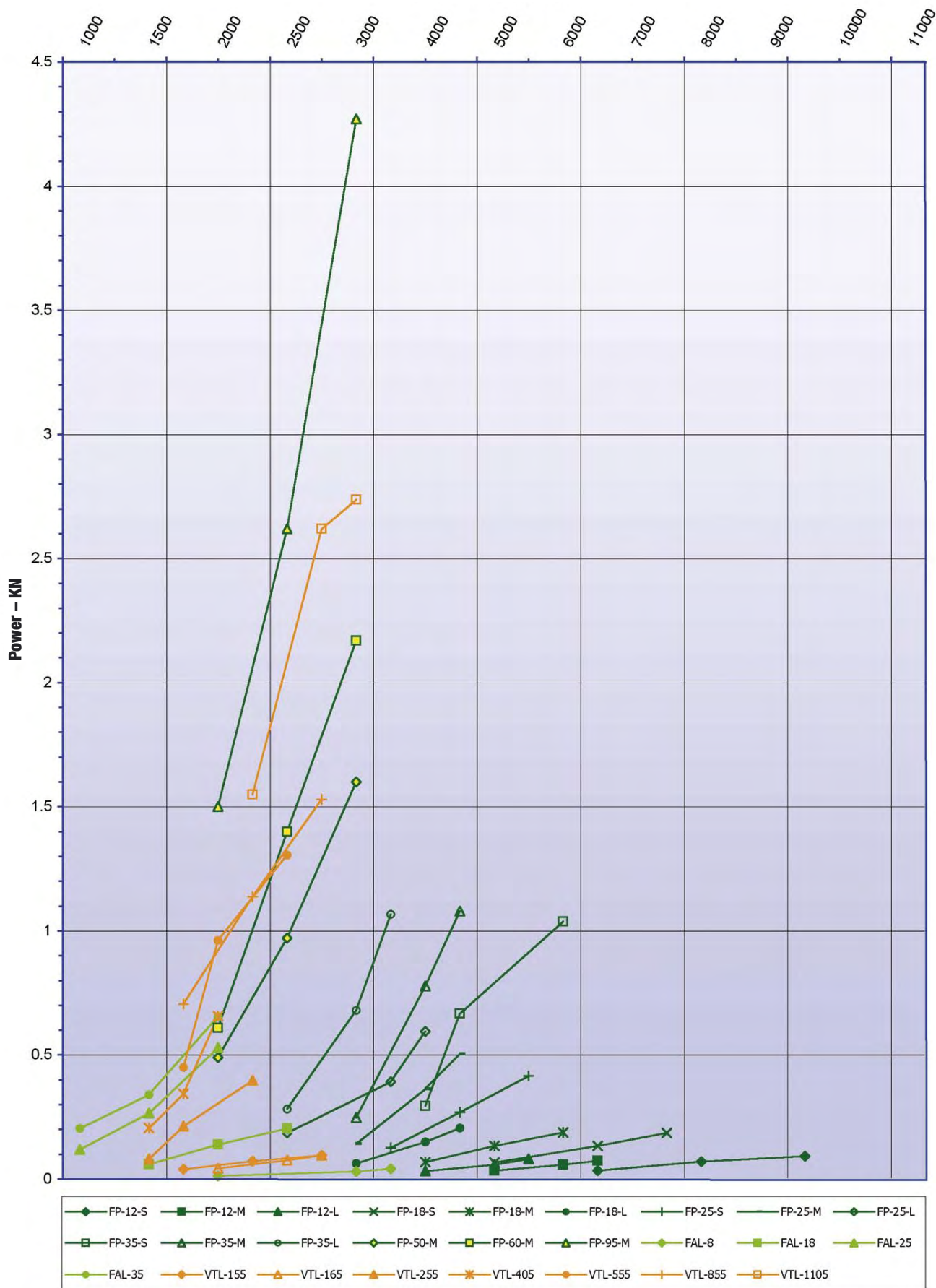
Model	Pressure bars	Work/ Impact Nm	Impulse/ Impact Ns	Stroke Impacts min ⁻¹	Air consumption l min ⁻¹	For Wall thickness up to mm	Weight kg
FKL 100 mi	6-8	10 - 40	5 - 10	0.5-200	0.5-1.1	5	4.5



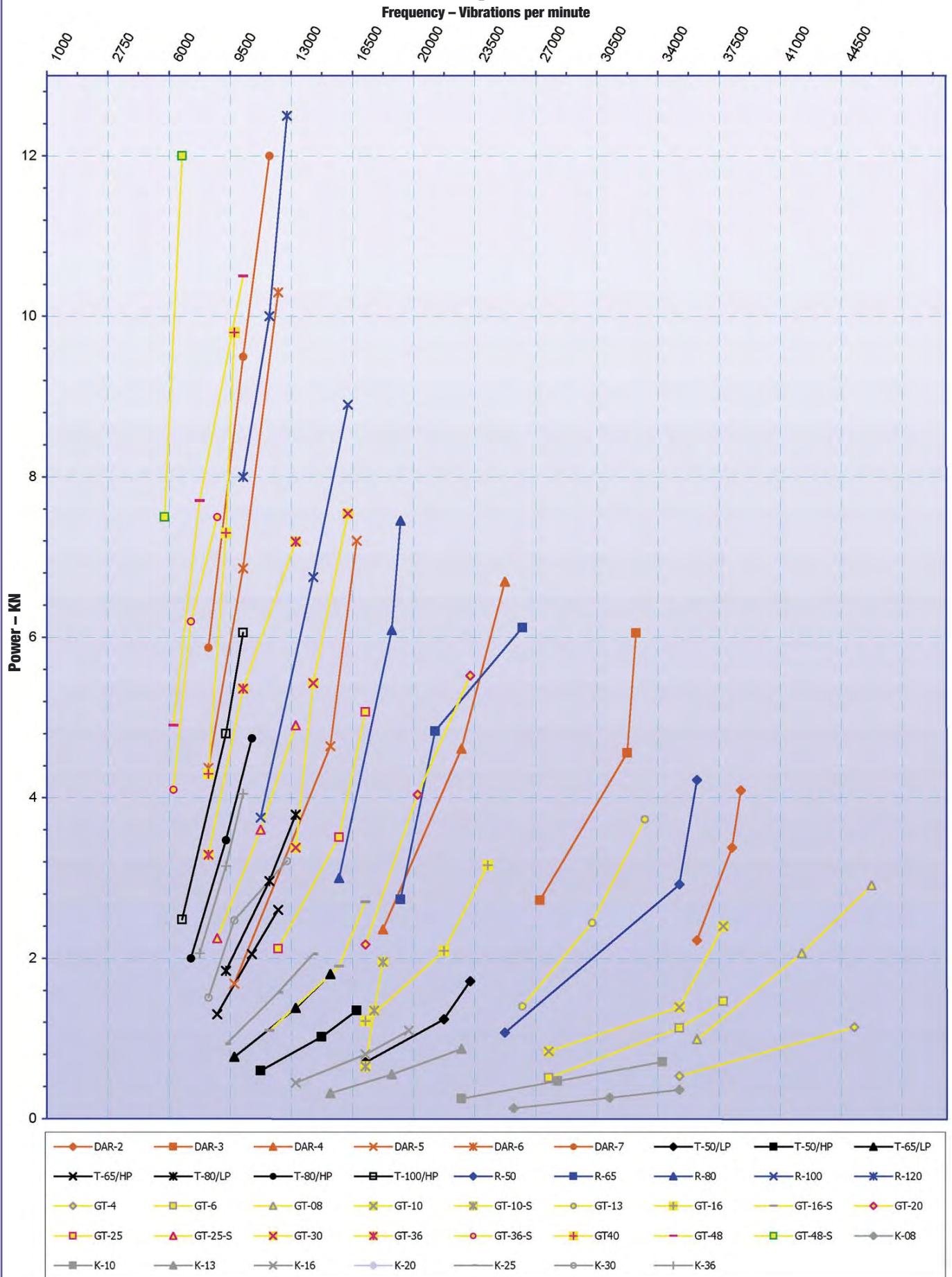
Housing made of hard-anodized aluminium alloy
Steel piston
Baffle plate made of impact-resistant plastic

Bandwidths and frequencies of the forces

Frequency – Vibrations per minute



Bandwidths and frequencies of the forces



Quality and Innovation



Evaluation of the right vibrator

Full details at: www.findeva.com

Functional principles:

- Rotating vibrators for undirected circular oscillations: Series K, R, DAR, T, GT
- Linear vibrators for linear aligned oscillations: Series FP, FPLF, FAL, VTL
- Interval knockers: Series FKL

You choose the vibration characteristics:

- Mainly high-frequency oscillations with low amplitude: Series K, R, DAR, T, GT
- Low-frequency oscillations with high amplitude: Series FP, FPLF, FAL, VTL
- Hammer impacts: Series FKL

[For bandwidths and frequencies see pages 16/17](#)



