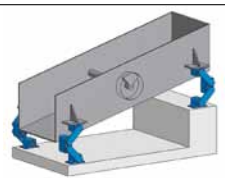
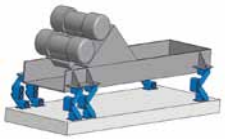
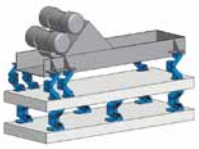
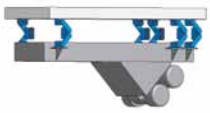
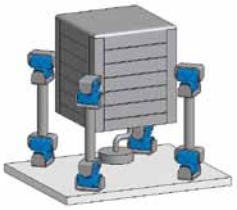
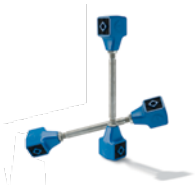
Selection table for free oscillating systems (with unbalanced excitation)

		 One-mass system circular screen	 One-mass system linear screen	 Two-mass system with counterframe	 One-mass system hanging linear screen
	**AB** p. 11	**Oscillating mounting** universal mounting. High vibration isolation and low residual force transmission. Natural frequencies approx. 2–3 Hz. 9 sizes from 50 N to 20'000 N per AB.			
	**AB-HD** p. 12	**Oscillating mounting** for impact loading and high production peaks. Natural frequencies approx. 2.4–3.2 Hz. 3 sizes from 3'500 N to 14'000 N per AB-HD.			
	**AB-D** p. 13		**Oscillating mounting** in compact design. Optimal in two-mass systems as counterframe mounting. Natural frequencies approx. 3–4.5 Hz. 7 sizes from 500 N to 16'000 N per AB-D.		
	**ABI** p. 14	**Oscillating mounting** made from stainless steel for the food and pharmaceutical industry. High vibration isolation and low residual force transmission. Natural frequencies approx. 2–3 Hz. 6 sizes from 70 N to 6'800 N per ABI.			
	**HS** p. 15				**Oscillating mounting** for hanging systems. Natural frequencies approx. 3–4 Hz. 5 sizes from 500 N to 14'000 N per HS.

Selection table for gyratory sifters

			Gyratory sifter upright staying	Gyratory sifter hanging
	**AK** *	**Universal joint** for the support or suspension of positive drive or freely oscillating gyratory sifting machines. 10 sizes up to max. 40'000 N per unit.		
	**AV** *	**Single joint** specially designed with large rubber volume for the suspension of gyratory sifting machines. Models with right- and left-hand threads. 5 sizes up to max. 16'000 N per unit.		

* Please consult our general catalogue.

ROSTA

Technology

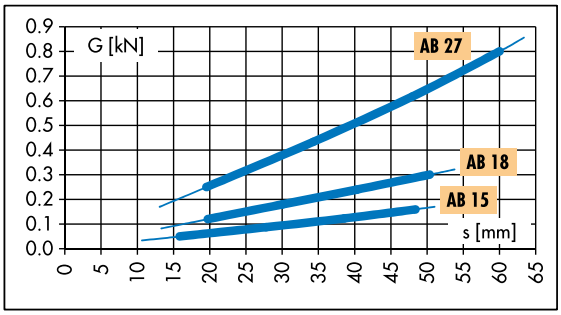
Deflection curves and cold flow behaviours

Diagrams showing the vertical deflection s (in mm) by compression or tensile load G (in kN). The shown values comprehend the initial cold flow settling after one day of operation. The final element deflection after the full cold flow compensation (after approx. 1 year) is usually factor x 1,09 higher (depending on specific application, climate etc.).

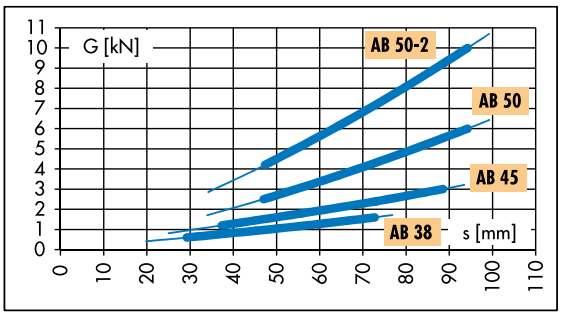
The deflection values are based on our catalogue specifications and should be understood as approximate values. Please consult also our tolerance specifications in chapter «Technology» in the general catalogue.

Compression load

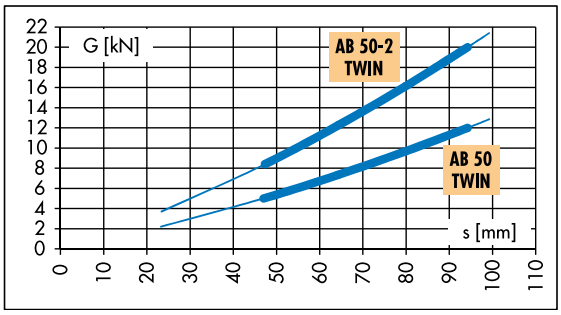
AB 15 to AB 27



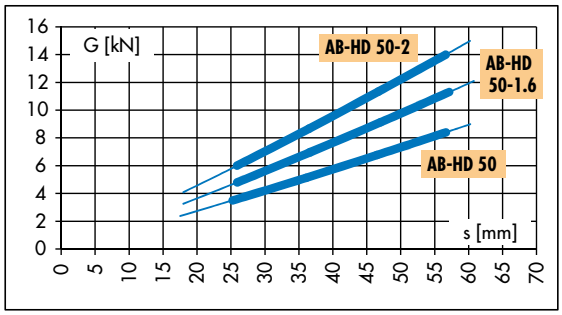
AB 38 to AB 50-2



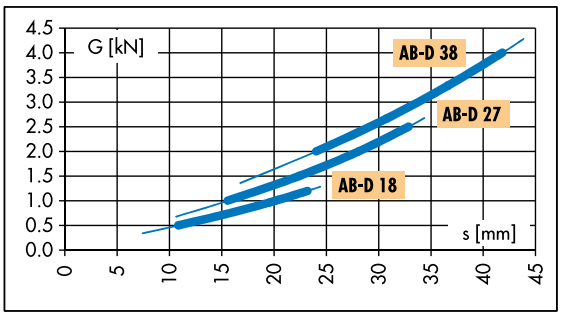
AB TWIN



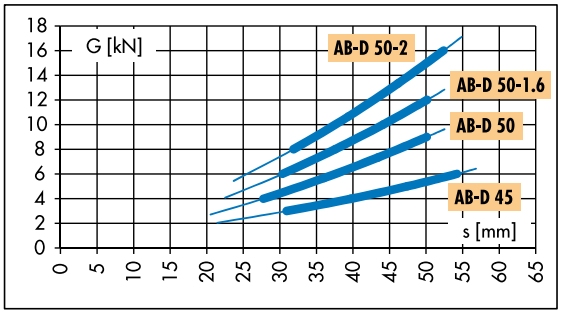
AB–HD



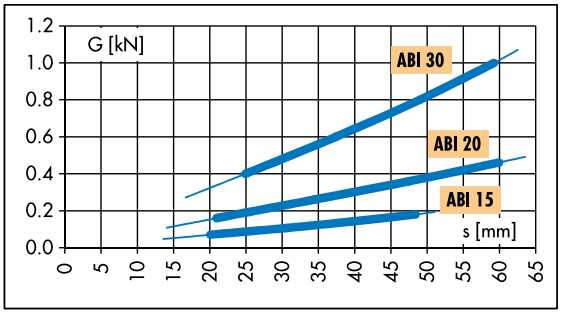
AB-D 18 to AB-D 38



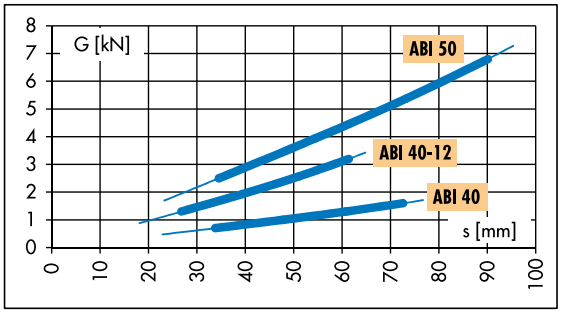
AB-D 45 to AB-D 50-2



ABI 15 to ABI 30

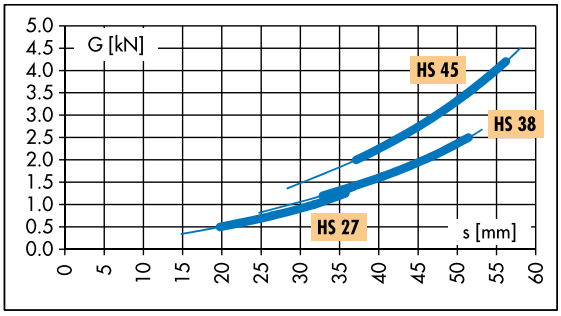


ABI 40 to ABI 50

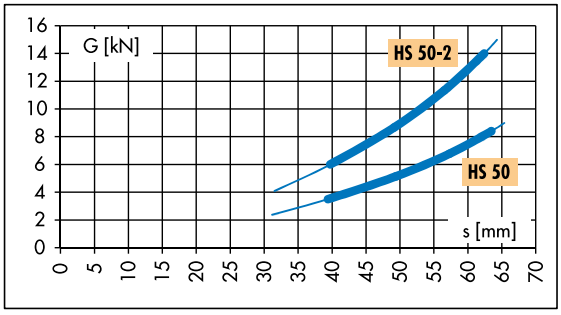


Tensile load

HS 27 to HS 45



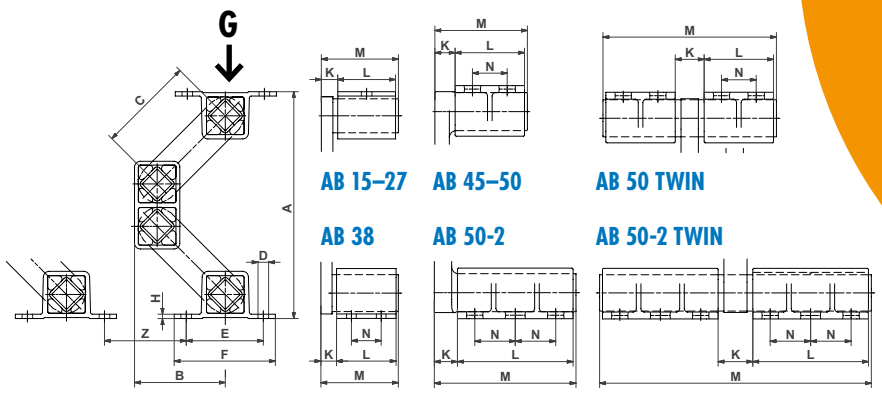
HS 50 and HS 50-2



ROSTA

Oscillating Mounting

Type AB



Art. No.	Type	Load capacity Gmin.–Gmax. [N]	A un-loaded	A* max. load	B un-loaded	B* max. load	C	D	E	F	H	K	L	M	N	Weight [kg]
07 051 056	**AB 15**	50 – 160	169	115	71	89	80	ø7	50	65	9	10	40	52	–	0.51
07 051 057	**AB 18**	120 – 300	208	154	88	107	100	ø9	60	80	3.5	14	50	67	–	1.15
07 051 058	**AB 27**	250 – 800	235	170	94	116	100	ø11	80	105	4.5	17	60	80	–	2.20
07 051 059	**AB 38**	600 – 1'600	305	225	120	147	125	ø13	100	125	6	21	80	104	40	5.10
07 051 054	**AB 45**	1'200 – 3'000	353	257	141	172	140	13x20	115	145	8	28	100	132	65	11.5
07 051 061	**AB 50**	2'500 – 6'000	380	277	150	184	150	17x27	130	170	12	35	120	160	60	20.8
07 051 055	**AB 50-2**	4'200 – 10'000	380	277	150	184	150	17x27	130	170	12	40	200	245	70	32.2
07 051 008	**AB 50 TWIN**	5'000 – 12'000	380	277	150	184	150	17x27	130	170	12	50	120	300	60	35.0
07 051 009	**AB 50-2 TWIN**	8'400 – 20'000	380	277	150	184	150	17x27	130	170	12	60	200	470	70	54.0

Art. No.	Type	Natural frequency Gmin.–Gmax. [Hz]	Z**	Dynamic spring value cd vertical [N/mm]	Dynamic spring value cd horizontal [N/mm]	Capacity limits by different rpm. 720 min⁻¹ sw max. [mm]	720 min⁻¹ K max. [–]	960 min⁻¹ sw max. [mm]	960 min⁻¹ K max. [–]	1440 min⁻¹ sw max. [mm]	1440 min⁻¹ K max. [–]	Light alloy profile	Steel welded construction	Nodular cast iron	ROSTA blue painted
07 051 056	**AB 15**	4.3–2.8	65	10	6	14	4.1	12	6.2	8	9.3	x	x		x
07 051 057	**AB 18**	3.6–2.6	80	18	14	17	4.9	15	7.7	8	9.3	x	x		x
07 051 058	**AB 27**	3.7–2.7	80	40	25	17	4.9	14	7.2	8	9.3	x	x		x
07 051 059	**AB 38**	3.0–2.4	100	60	30	20	5.8	17	8.8	8	9.3	x	x		x
07 051 054	**AB 45**	2.8–2.3	115	100	50	21	6.1	18	9.3	8	9.3	x	x	x	x
07 051 061	**AB 50**	2.4–2.1	140	190	85	22	6.4	18	9.3	8	9.3			x	x
07 051 055	**AB 50-2**	2.4–2.1	140	320	140	22	6.4	18	9.3	8	9.3			x	x
07 051 008	**AB 50 TWIN**	2.4–2.1	140	380	170	22	6.4	18	9.3	8	9.3		x	x	x
07 051 009	**AB 50-2 TWIN**	2.4–2.1	140	640	280	22	6.4	18	9.3	8	9.3		x	x	x
				values in nominal load range at 960 rpm and sw of 8 mm.		Acceleration > 9.3 g is not recommended						Material structure			

These types can be combined with one another (identical heights and operation behaviour)

* compression load Gmax. and final cold-flow compensation (after approx. 1 year)
** separate assembly instructions are available, please ask for details.