

## MARTIN® PKL® Interval Impactors

MARTIN® PKL® Interval Impactors generate individual blows similar to a hammer. The impact provides very high acceleration, the exact force required to move sticky or clinging materials from storage vessel walls. The impacts per minute are variable between 10 and 60, without the use of a timing device.

The superb controllability of the MARTIN® PKL® Interval Impactors ensures just the right force to do the job, reducing noise, energy costs and bin damage.



### FEATURES

#### High Acceleration

The impact provided by MARTIN® PKL® Interval Impactors moves material that will not respond to rotary vibration.

#### Extremely Low Energy Consumption

The low operating frequency combined with the “air-against-spring” design translates to extremely low energy costs.

#### Precise Control

Adjust the number of impacts to provide the right force to do the job—no wasted energy, no bin or hopper damage. This is the most controllable vibrator available.

#### Best Uses

- Removing sticky materials from bin walls.
- Cleaning dusty residue from surfaces.
- Breaking “bridged” material.
- Great for spray dryers, pipes and dust collectors!

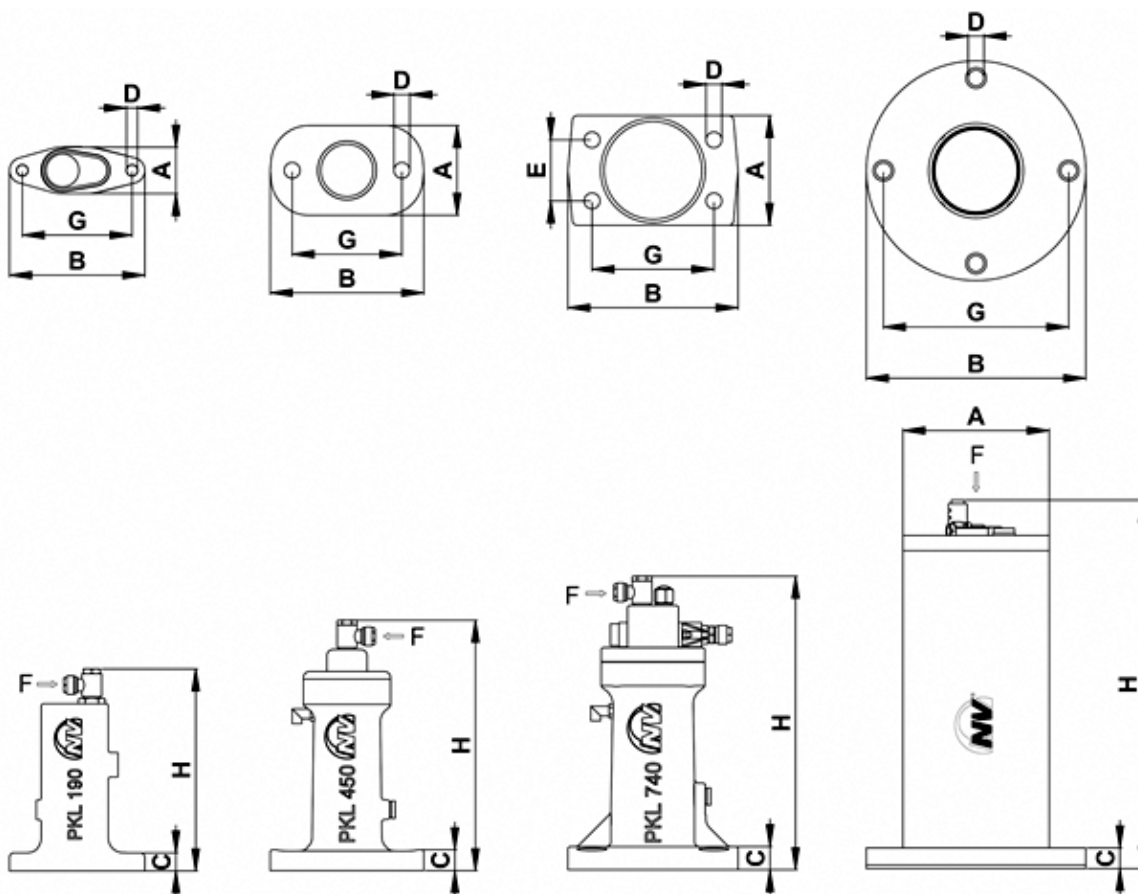
#### Additional Specifications

- Air Pressure Range: 45-115 psi.
- Operating Temperature: Max. 250°. High-temp models 320°F.
- Air Preparation: 5-micron filter, pressure regulator & lubricator.
- Force (maximum): 120-1,700 in-lbs.
- Warranty: 3 years when operated within recommendations.

## MARTIN® PKL® Interval Impactors

### DIMENSIONS

BODY SIZE	A		B		C		D		E		F	G		H	
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	NPT	IN.	MM	IN.	MM
PKL 190	1.5	38	4.37	111	0.59	15	0.35	9	-	-	1/8	3.54	90	9.67	245.62
PKL 450	2.89	73.5	4.96	126	0.55	14	0.51	13	-	-	1/8	3.54	90	10.87	276.10
PKL 740	3.54	90	5.51	140	0.59	15	0.51	13	1.97	50	1/8	3.94	100	12.78	324.61
PKL 1000	3.5	88.9	5.51	140	0.51	13	0.51	13	-	-	1/8	4.57	116	10.47	266
PKL 2100	4.72	120	7.09	180	0.67	17	0.51	13	-	-	1/8	5.98	152	14.83	376.68
PKL 5000	4.5	114.3	7.09	180	0.87	22	0.67	17	-	-	1/8	5.98	152	17.82	452.63
PKL 10000	5.71	145	8.66	220	0.98	25	0.67	17	-	-	1/8	7.28	185	20.52	521.21



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### PERFORMANCE

MODEL	PISTON WEIGHT		IMPACT FORCE*		AIR PRESSURE		AIR CONSUMPTION		TOTAL WEIGHT		RECOMMENDED	
	LB	KG	LB	KG	OPTIMUM		PER IMPACT		LB	KG	WALL THICKNESS	
					PSI	BAR	CF	LITER			IN	MM
PKL 190/4	0.42	0.19	0.95	0.43	58.01	4.0	0.007	0.19	1.76	0.8	.04-.08	1 - 2
PKL 190/6	0.42	0.19	1.32	0.60	87.02	6.0	0.01	0.27	1.76	0.8	.04-.08	1 - 2
PKL 450/4	0.97	0.44	1.23	0.56	58.01	4.0	0.016	0.46	3.53	1.6	.04-.12	1 - 3
PKL 450/6	0.97	0.44	2.03	0.92	87.02	6.0	0.023	0.65	3.53	1.6	.04-.12	1 - 3
PKL 740/4	1.63	0.74	3.97	1.8	58.01	4.0	0.029	0.83	5.73	2.6	.08-.16	2 - 4
PKL 740/6	1.63	0.74	5.95	2.7	87.02	6.0	0.005	1.17	5.73	2.6	.08-.16	2 - 4
PKL 1000/4	2.2	1	6.17	2.8	58.01	4.0	0.041	2.7	12.57	5.7	.08-.16	2 - 4
PKL 1000/6	2.2	1	9.48	4.3	87.02	6.0	0.141	4	12.79	5.8	.12-.2	3 to 5
PKL 2100/4	4.63	2.1	9.26	4.2	58.01	4.0	0.23	6.53	14.77	6.7	.12-.2	3 - 5
PKL 2100/5	4.63	2.1	13.67	6.2	72.52	5.0	0.277	7.84	15.21	6.9	.12-.2	3 - 5
PKL 5000/4	10.93	4.96	14.55	6.6	58.01	4.0	0.256	7.24	35.27	16.0	.16-.32	4 - 8
PKL 5000/6	10.93	4.96	23.37	10.6	87.02	6.0	0.358	10.14	36.38	16.5	.24-.48	6 - 12
PKL 10000/6	22.05	10	38.58	17.5	87.02	6.0	0.628	17.79	74.96	34.0	> .39	> 10

\* Impact force corresponds with listed weight dropped from 3'.

### PHOTOS



MARTIN® PKL® Interval Impactor on transfer pipe



MARTIN® PKL® Interval Impactor above rotary valve.



MARTIN® PKL® Interval Impactor on chute.



MARTIN® PKL® Interval Impactor on spout.



MARTIN® PKL® Interval Impactor on fill spout.



MARTIN® PKL® Interval Impactor on cone.



MARTIN® PKL® Interval Impactor on large tank.



MARTIN® PKL® Interval Impactor on fill spout.