ктмеснекs® CUSHION-START · SLOW RETURN

CUSHION-START KINECHEKS

The CUSHION-START[®] KINECHEK is a combination impact absorber and hydraulic check. The impact absorbing feature called "CUSHION-START" is a safeguard for those applications where a fast moving machine element must be abruptly decelerated, then permitted to continue its movement at a constant speed. The first portion of the unit's stroke is used for cushioning, while the remaining stroke will control the speed of any load with the same uniformness as regular KINECHEKS. The CUSHION-START feature is normally supplied only in the SLIMLINE family of units. The data on the specification chart, column 4, indicates the kinetic (moving) energy that the CUSHION-START can gently decelerate before beginning the constant speed portion of the stroke.

SLOW RETURN KINECHEKS

The SLOW RETURN KINECHEK will control the speed of a load pushing on the plunger rod exactly the same as a regular KINECHEK. However, the automatic return action of the plunger rod is slowed by a fixed restricting orifice added to the unit's internal flow passages. The time required for the plunger rod to extend ranges from 6 seconds to 22 seconds per inch of stroke for the models listed. This return time depends upon the orifice size built into the unit. Other times are available upon special request. The time ranges listed for each model on the Specification Chart, Column 7, are necessary to accommodate manufacturing tolerances, since the restricting orifice is not adjustable.

SPECIFICATIONS

1	2	3	4	5	6	7	8	9	10 Time for Full Stroke of Plunger at Slowest Adjustment		
Model No. of Kinechek	Description	Stroke	Max. Energy Absorption Capacity Per Stroke	Minimum Force That Will Operate Plunger Full Stroke	Plunger Return Spring Force	Time Req'd for Plunger to Return Outward if Released Suddenly	Load That Will Push Plunger 1 in. Per Sec. at Fastest Adjustment	Load That Will Push Plunger 4 in. Per Sec. at Fastest Adjustment			
C U S H I O N - S T A R T Capacity: 1200 lbs. Max. – Including Impact When Load Strikes Plunger										500 lb. Load	100 lb. Load
1102-31-1/2 1102-31-1 1102-31-2 1102-31-3	.18 in. Cushion .25 in. Cushion .34 in. Cushion .62 in. Cushion	1/2 in. 1 in. 2 in. 3 in.	60 in. lbs. 120 in. lbs. 220 in. lbs. 260 in. lbs.	5 lbs.	4 lbs.	.031 sec. .063 sec. .106 sec. .235 sec.	11 lbs.	33 lbs.	5 sec. 11 sec. 24 sec. 35 sec.	11 sec. 26 sec. 58 sec. 83 sec.	96 sec. 3.7 min. 8.3 min. 11.8 min
SLOW RETURN Capacity: 1200 lbs. Max. – Including Impact When Load Strikes Plunger									1000 lb. Load	500 lb. Load	100 lb. Load
1302A - 31-1/2 1302B - 31-1/2 1302C - 31-1/2		1/2 in.		5 lbs.	4 lbs.	6 to 10* 10 to 16* 16 to 22*	11 lbs.	33 lbs.	8 sec.	18 sec.	150 sec
1302A - 31-1 1302B - 31-1 1302C - 31-1		1 in.		5 lbs.	4 lbs.	6 to 10* 10 to 16* 16 to 22*	11 lbs.	33 lbs.	15 sec.	35 sec.	5 min.
1302A-31-2 1302B-31-2 1302C-31-2		2 in.		5 lbs.	4 lbs.	6 to 10* 10 to 16* 16 to 22*	11 lbs.	33 lbs.	30 sec.	70 sec.	10 min.
1302A-31-3 1302B-31-3 1302C-31-3		3 in.		5 lbs.	4 lbs.	6 to 10* 10 to 16* 16 to 22*	11 lbs.	33 lbs.	45 sec.	105 sec.	15 min.

135°F Maximum Continuous Operating Temperature (All models)

*Outward Return Rate of Plunger at Slowest Adjustment (Seconds per inch of Stroke)

K I N E C H E K S°

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DIMENSIONS AND WEIGHTS

Model No.	Stroke	Weight	Α	В	C
131-1/2	1/2 in.	11.5 oz.	6.33	.687	4.28
131-1	1 in.	12.5 oz.	7.83	1.187	5.28
131-2	2 in.	16.5 oz.	10.87	2.187	7.31
131-3	3 in.	19.2 oz.	13.87	3.187	9.31





MOUNTING BLOCK NO. A10031 (SLIMLINE)

