SPECIFICATIONS (METRIC)

CHOOSE YOUR KINECHEK FROM THIS TABLE

1	2	3	4	5	6	7	8	9	10			
Model No. of Kinechek	Description	Stroke (mm)	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 25mm/ Sec. at Fastest Adjustment	Load That Will Push Plunger 100mm/ Sec. at Fastest Adjustment	Time for Full Stroke of Plunger at Slowest Adjustment			
MINI K									1330N Load	665N Load	330N Load	110N Load
Capacity: 1780N Max. — Including Impact When Load Strikes Plunger												
3021-19-½	extra fast	12.7		12N	9N	.05 sec.	12N	16N	0.5 sec.	1 sec.	2 sec.	6 sec.
3023-19-½	fast					.08 sec.	13N	18N	3 sec.	6 sec.	12 sec.	36 sec.
3022-19-½	standard					.18 sec.	14N	23N	6 sec.	12 sec.	24 sec.	72 sec.
3024-19-½	slow speed					1.1 sec.	23N	40N	30 sec.	60 sec.	120 sec.	360 sec.
3021-19-1	extra fast	25.4		12N	9N	.09 sec.	12N	16N	1 sec.	2 sec.	4 sec.	12 sec.
3023-19-1	fast					.13 sec.	13N	18N	6 sec.	12 sec.	24 sec.	72 sec.
3022-19-1	standard					.32 sec.	14N	23N	12 sec.	24 sec.	48 sec.	144 sec.
3024-19-1	slow speed					1.9 sec.	23N	40N	60 sec.	120 sec.	240 sec.	720 sec.
SLIMLINE									4400N Load	2200N Load	440N Load	
Capacity: 5300N Max. — Including Impact When Load Strikes Plunger												
1001-31-½	extra fast	12.7		23N	18N	.015 sec.	27N	45N	0.5 sec.	1 sec.	10 sec.	
1003-31-½	fast					.020 sec.	40N	85N	4 sec.	9 sec.	75 sec.	
1002-31-½	standard					.031 sec.	49N	147N	8 sec.	18 sec.	150 sec.	
1004-31-½	slow speed					.186 sec.	134N	400N	38 sec.	90 sec.	12.5 min.	
1001-31-1	extra fast	25.4		23N	18N	.030 sec.	27N	45N	1 sec.	2 sec.	20 sec.	
1003-31-1	fast					.041 sec.	40N	85N	8 sec.	18 sec.	150 sec.	
1002-31-1	standard					.063 sec.	49N	147N	15 sec.	35 sec.	5 min.	
1004-31-1	slow speed					.378 sec.	134N	400N	75 sec.	180 sec.	25 min.	
1001-31-2	extra fast	50.8		23N	18N	.052 sec.	27N	45N	2 sec.	5 sec.	40 sec.	
1003-31-2	fast					.070 sec.	40N	85N	15 sec.	35 sec.	5 min.	
1002-31-2	standard					.106 sec.	49N	147N	30 sec.	70 sec.	10 min.	
1004-31-2	slow speed					.730 sec.	134N	400N	150 sec.	6 min.	50 min.	
1001-31-3	extra fast	76.2		23N	18N	.115 sec.	27N	45N	3 sec.	7 sec.	60 sec.	
1003-31-3	fast					.155 sec.	40N	85N	23 sec.	55 sec.	7.5 min.	
1002-31-3	standard					.235 sec.	49N	147N	45 sec.	105 sec.	15 min.	
1004-31-3	slow speed					1.620 sec.	134N	400N	225 sec.	9 min.	75 min.	
SUPER K												
Capacity: 5300N Max. — Including Impact When Load Strikes Plunger												
5001-31-4	extra fast	101.6		23N	18N	.14 sec.	27N	45N	4 sec.	10 sec.	80 sec.	
5003-31-4	fast					.19 sec.	40N	85N	30 sec.	70 sec.	10 min.	
5002-31-4	standard					.36 sec.	49N	147N	60 sec.	140 sec.	20 min.	
5004-31-4	slow speed					1.67 sec.	134N	400N	5 min.	12 min.	100 min.	
5001-37-6	extra fast	152.4		36N	32N	.25 sec.	40N	54N	6 sec.	15 sec.	2 min.	
5003-37-6	fast					.33 sec.	45N	89N	45 sec.	105 sec.	15 min.	
5002-37-6	standard					.65 sec.	54N	147N	90 sec.	3.5 min.	30 min.	
5004-37-6	slow speed					2.39 sec.	134N	400N	7.5 min.	18 min.	150 min.	
CUSHION-START												
Capacity: 5300N Max. — Including Impact When Load Strikes Plunger												
1102-31-½	4.6mm Cushion	12.7	6.7Nm	23N	18N	.031 sec.	49N	147N	5 sec.	11 sec.	96 sec.	
1102-31-1	6.4mm Cushion	25.4	13.5Nm			.063 sec.			11 sec.	26 sec.	3.7 min.	
1102-31-2	8.6mm Cushion	50.8	24.8Nm			.106 sec.			24 sec.	59 sec.	8.3 min.	
1102-31-3	16mm Cushion	76.2	29.4Nm			.235 sec.			35 sec.	83 sec.	11.8 min.	
SLOW RETURN												
Capacity: 5300N Max. — Including Impact When Load Strikes Plunger												
1302A-31-½		12.7		23N	18N	6 to 10*	49N	147N	8 sec.	18 sec.	150 sec.	
1302B-31-½						10 to 16*						
1302C-31-½						16 to 22*						
1302A-31-1		25.4		23N	18N	6 to 10*	49N	147N	15 sec.	35 sec.	5 min.	
1302B-31-1						10 to 16*						
1302C-31-1						16 to 22*						
1302A-31-2		50.8		23N	18N	6 to 10*	49N	147N	30 sec.	70 sec.	10 min.	
1302B-31-2						10 to 16*						
1302C-31-2						16 to 22*						
1302A-31-3		76.2		23N	18N	6 to 10*	49N	147N	45 sec.	105 sec.	15 min.	
1302B-31-3						10 to 16*						
1302C-31-3						16 to 22*						

57°C Maximum Continuous Operating Temperature (All models)

*Outward Return Rate of Plunger at Slowest Adjustment (Sec. per 25.4mm of Stroke)

DIMENSIONS AND INFORMATION (METRIC)

DIMENSIONS AND WEIGHTS (All dimensions in millimeters)

Model No.	Stroke	Weight	A	B	C	D	E	F
3___-19-1/2	12.7	92gm	107.2	15.9				
3___-19-1	25.4	105gm	145.3	28.6				
1___-31-1/2	12.7	326gm	160.8	17.4	108.7			
1___-31-1	25.4	354gm	198.9	30.1	134.1			
1___-31-2	50.8	468gm	276.1	55.5	185.7			
1___-31-3	76.2	544gm	352.3	80.9	236.5			
5___-31-4	101.6	658gm	356.4	106.3	50.8	7.9	None	None
5___-37-6	152.4	893gm	489.5	157.1	88.9	9.5	25.4	25.4

FIGURE 1

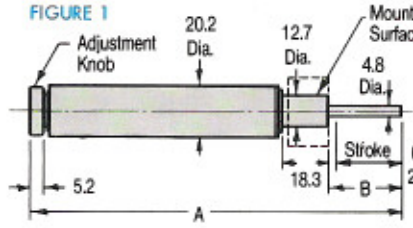
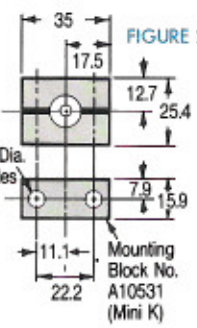
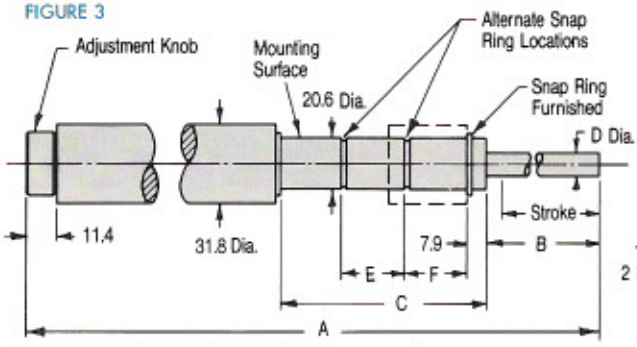


FIGURE 2



KINECHEK MINI K (MODEL 3__ __ __)

FIGURE 3



KINECHEK SUPER K (MODEL 5__ __ __)

Mounting Block Nos.
A10031 (Slimline)
A10431 (Super K)

FIGURE 4

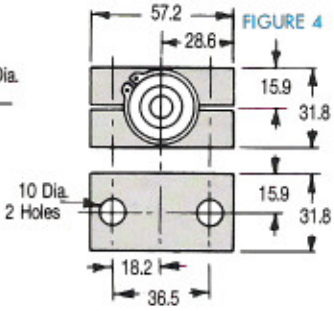
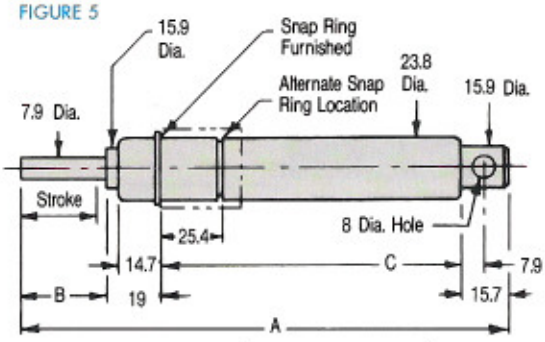


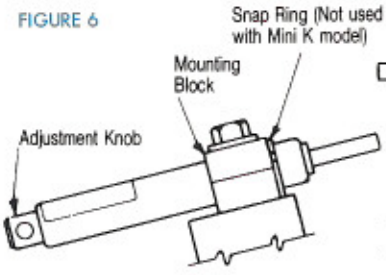
FIGURE 5



KINECHEK SLIMLINE (MODEL 1__ __ __)

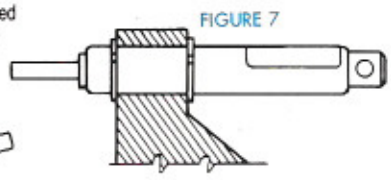
MOUNTING ARRANGEMENTS

FIGURE 6



Mount on flat surfaces with mounting block at either snap ring groove, or use spacer for intermediate position. Thrust is taken by snap ring furnished.

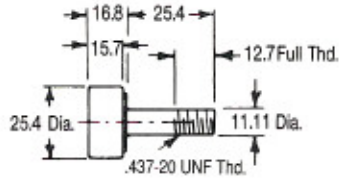
FIGURE 7



Can be mounted in round holes and retained by snap rings in light duty installations. If application is severe, body should be clamped radially by split mounting to prevent body working in hole. Set screws must not be used. Mini K model must be clamped radially.

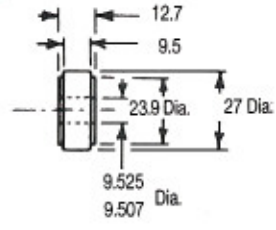
ROLLERS (ACCESSORIES)

FIGURE 8



Cantilever roller No. A10131

FIGURE 9



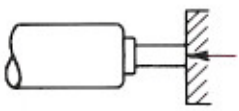
Roller No. A10331

EASY TO INSTALL!

This handy push-plunger check is installed simply by mounting it with plunger butted against device to be controlled and twisting the adjustment knob to proper setting.

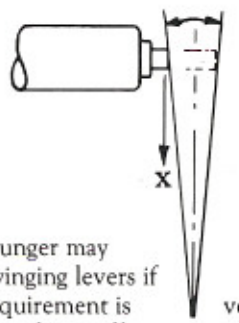
IMPORTANT!

FIGURE 10



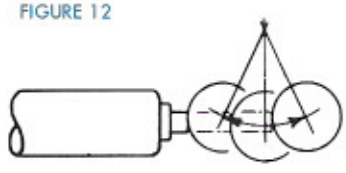
End of KINECHEK plunger is hardened for wear resistance, and should, whenever possible, be butted directly against any straight moving body. Load should never slide on end of plunger or cause plunger to twist during its stroke.

FIGURE 11



Plunger may contact swinging levers if service requirement is very light. Angularity of lever must not put a right angle load on plunger at X greater than the maximum values shown in the adjoining chart.

FIGURE 12



However, for longest life with swinging levers, install roller on lever so *roller contacts flat end of plunger during entire stroke of plunger.* Rollers A10131 and A10331, illustrated in figures 8 and 9, are suitable for this purpose.

MAXIMUM RIGHT ANGLE LOAD AT X:

Kinechek Model	Stroke	Max. Load
Mini K	12.7 or 25.4	18N
Slimline	12.7 or 25.4	88N
Slimline	50.8 or 76.2	44N
Super K	101.6 or 152.4	44N

SAFETY STOP — For quickest plunger return after a working stroke, and to protect KINECHEK, provide a solid stop to stop the moving load approximately 0.8mm before KINECHEK plunger reaches bottom of its own stroke.