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- **Simple compact unit**
No external moving parts
- **Unique linkage design**
converts to 180° travel
120° option available
- **Constant gear-up ratio through travel range**
Hence constant output torque
- **Rolling contact linkage mechanism**
Ensures low wear, long life, low friction
- **Linkage sealed for life**
Protected from the environment, long maintenance free life
- **Compatible with all Kinetrol modules**
Direct mounted spring returns, limit switch boxes, positioners etc.
- **Adjustable endstops**

Operation

Kinetrol's 180° actuator is produced by adding a 2:1 step-up linkage onto the output shaft of well proven 90° vane actuators.

Factory fitted, direct mount linkage units are available to suit model 02, 03, 05, 07, 09, 12, 14 and 16 actuators, giving a neat single unit with no mount kits or brackets. The linkage's unique geometry gives constant 2:1 step-up so that the output torque remains constant throughout the actuator's travel.

The all-steel mechanism of the linkage employs rolling contacts to minimise frictional losses and wear, and to maximise life. The linkage is lubricated for life, and encased in a robust, fully sealed, die cast alloy casing. Exterior surfaces are protected by a corrosion resistant epoxy stove enamel finish. Standard adjustable endstops on the 90 degree actuator can be used to set the angle of travel. The other end of the 90 degree actuator allows the full range of Kinetrol modular accessories to be fitted directly.

120 degree actuators are also available with adjustable end stops to give up to 133° of travel for the above model range - contact Kinetrol for details.

Ordering Codes

To order a 180° actuator, add a '1' to the end of the code for the 90° actuator on which it is based and a '2' for a 120° actuator.

Examples:

To order an 074 cw spring return actuator plus 180° linkage, use code: 074-1201.

To order an 074 cw spring return actuator plus 120° linkage, use code: 074-1202.



Double Acting Torques/Metric Units Nm

Actuator Model	1.4	2.0	2.8	3.5	4.1	4.8	5.5	6.2	6.9
	Pressure (bar)								
02-1001	0.6	1.1	1.6	2.2	2.7	3.2	3.7	4.2	4.8
03-1001	1.3	2.4	3.5	4.6	5.6	6.7	7.8	8.8	10.0
05-1001	3.2	5.2	7.2	9.3	11.3	13.6	15.6	17.8	19.9
07-1001	7.9	12.6	17.6	22.6	27.6	33.0	38.4	43.2	48.8
09-1001	16.3	20.0	37.1	47.6	58.0	69.2	80.4	91.2	103.0
12-1001	37.5	60.8	84.4	108.0	131.0	156.0	181.0	202.0	226.0
14-1001	97.2	151.0	206.0	262.0	316.0	375.0	434.0	488.0	542.0
16-1001	235.0	357.0	479.1	605.7	727.7	849.8	976.3	1098.4	1220.4

Double Acting Torques/English Units lbf ins

Actuator Model	20	30	40	50	60	70	80	90	100
	Pressure (psi)								
02-1001	5.6	10	14	19	24	28	33	37	42
03-1001	12	21	31	40	50	59	69	78	88
05-1001	28	46	64	82	100	120	138	157	176
07-1001	70	112	156	200	244	292	340	384	432
09-1001	144	236	328	420	512	612	712	808	912
12-1001	332	540	748	960	1160	1376	1588	1792	2000
14-1001	860	1340	1820	2320	2800	3320	3840	4320	4800
16-1001	2080	3160	4240	5360	6440	7520	8640	9720	10800

Spring Return Torques/Metric Units Nm

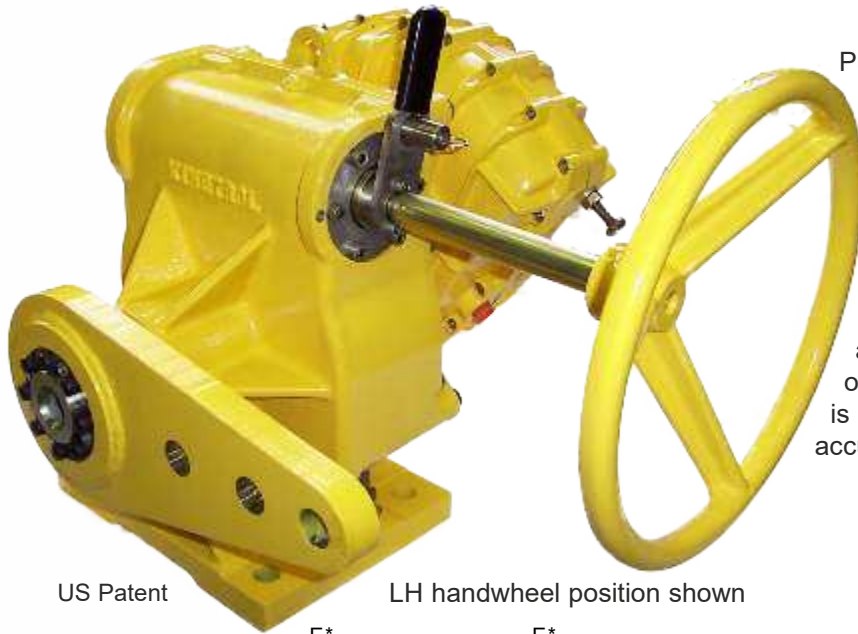
Spring Return Torques/English Units lbf ins

Actuator Model	Position of air OR spring stroke	3.5	4	4.5	5	5.5
		Pressure Setting (bar)				
02-1201	Start	1.1	1.3	1.4	1.6	1.8
	Finish	0.5	0.7	0.9	1.2	1.4
03-1201	Start	3.3	3.7	4.0	4.3	4.9
	Finish	1.0	1.5	1.9	2.2	2.8
05-1201	Start	4.9	5.5	6.2	7.0	7.9
	Finish	3.2	4.0	4.9	5.8	6.7
07-1201	Start	11.6	13.5	15.5	17.4	19.3
	Finish	7.5	9.5	11.6	13.8	16.1
09-1201	Start	23.2	27.4	31.1	35.3	39.5
	Finish	19.1	23.2	27.0	31.4	35.6
12-1201	Start	55.1	64.8	75.6	81.1	90.4
	Finish	42.2	52.0	60.0	68.9	77.5
14-1201-4900	Start	135.0	156.0	178.0	195.0	201.0
	Finish	109.0	131.0	148.0	164.0	170.0
16-1201	Start	346.8	391.0	426.0	465.0	504.3
	Finish	181.4	237.0	282.0	332.0	381.9

Actuator Model	Position of air OR spring stroke	50	60	70	80
		Pressure Setting (psi)			
02-1201	Start	10.3	12.2	14.1	16.0
	Finish	4.6	6.8	9.5	12.5
03-1201	Start	29.6	33.4	37.2	43.7
	Finish	8.7	13.7	19.0	24.7
05-1201	Start	44	51	61	70
	Finish	28	38	49	59
07-1201	Start	103	126	146	171
	Finish	67	92	116	143
09-1201	Start	205	251	300	351
	Finish	169	215	266	315
12-1201	Start	486	595	693	802
	Finish	374	479	585	688
14-1201-4900	Start	1200	1420	1670	1780
	Finish	969	1200	1400	1500
16-1201	Start	3069	3534	3998	4463
	Finish	1605	2197	2788	3380

For dimensions see page 65



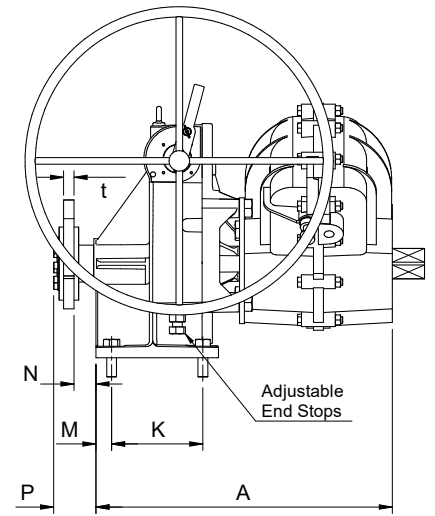
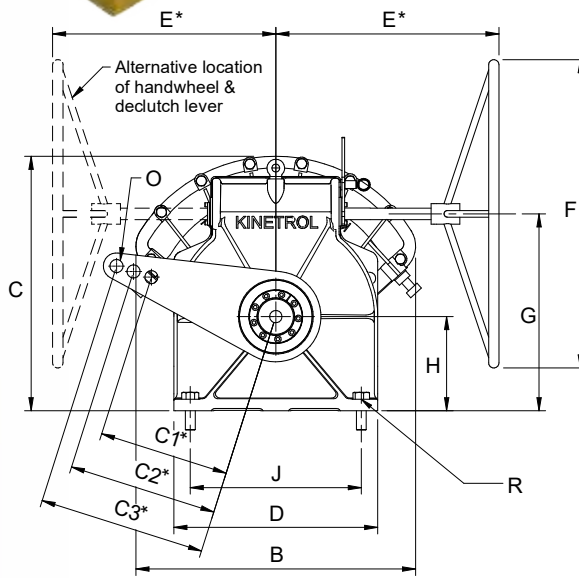


Purpose designed, factory built and tested drives for air/gas flow control dampers on burner, heater, boiler and turbine systems in power plants, refineries and a wide range of industrial applications.

Combining the proven performance of Kinetrol's vane type actuator with an equally rugged integral manual override/mounting frame, the G3 drive is compact with unbeatable control, accuracy and cycle life.

US Patent

LH handwheel position shown



Metric Units

Model	A mm	B mm	C mm	D mm	E* mm	F* mm	G mm	H mm	J mm	K mm	ØR mm	M mm	P mm	Weight† kgs
124	366	294	336	275	205	300	300	165	216	152	21	25	70	46
144	410	380	390	275	300	300	300	165	216	152	21	25	70	46
164	495	530	470	275	330	400	300	165	216	152	21	25	70	51
184	721	680	620	496	430	760	479	229	416	222	27	38	94	141
204	981	680	620	496	508	600	479	229	416	222	27	38	94	158

English Units

Model	A inch	B inch	C inch	D inch	E* inch	F* inch	G inch	H inch	J inch	K inch	ØR inch	M inch	P inch	Weight† lbs
127	14.4	11.6	13.2	10.8	11.0	12.0	12.0	6.5	8.50	6.00	0.83	1	2.8	102
147	16.2	15.0	15.4	10.8	12.0	12.0	12.0	6.5	8.50	6.00	0.83	1	2.8	102
167	19.5	20.9	18.5	10.8	13.0	16.0	12.0	6.5	8.50	6.00	0.83	1	2.8	112
187	28.4	26.8	24.4	19.5	17.0	30.0	18.9	9.0	16.38	8.74	1.05	1.6	3.7	310
207	38.6	26.8	24.4	19.5	20.0	24.0	18.9	9.0	16.38	8.74	1.05	1.6	3.7	350

* Default dimensions may change according to ordering code options

† Listed weights exclude actuator

- Integral manual override
- Suitable for new installations or replacement of existing electric or pneumatic drives
- Available with same mounting foot print to replace existing floor mount drives
- Can result in lower energy costs resulting from accurate flow control
- Reduced operating costs due to long maintenance-free life (2 million operation warranty)
- Compact space saving design
- Quick and easy installation and set up
- Robust construction with durable epoxy finish
- Manual override usable with actuator removed



Options

- Double acting and spring fail-safe (open or closed)
- Modulating (3-15 psi and 4-20mA signal)
- Fail to low signal
- Lock in last position
- Limit switch remote position indication
- 4-20mA angle retransmission
- High visibility position indication
- Different sided/diameter handwheels and extensions
- Infinitely adjustable output levers to suit existing or new requirements
- High temperature option available



Ordering Codes

HANDWHEEL SIDE (SEE SKETCH)
L=LEFT
R=RIGHT

HANDWHEEL DIAMETER (F)

	AVAILABLE ON MODELS:				
	12	14	16	18	20
3=300mm 12"	S	S	E		
4=400mm 16"	E	E	S		
5=600mm 24"			E	E	S
6=762mm 30"				S	

OUTPUT LEVER THICKNESS (t)

1=3/8"
2=1/2"
3=5/8"
4=3/4"
5=7/8"
6=1"
7=1 1/8"
8=1 1/4"
9=1 1/2"

OPTIONAL LIMIT SWITCH BOX (TO INDICATE IF HANDWHEEL IS ENGAGED OR DISENGAGED)

OPTIONS:

0 = NO LIMIT SWITCH
1 = 2 x i/S PROX. SENSORS
2 = 2 x PNEUMATIC LS
4 = 2 x V3 MECH LS
5 = 2 x 20-260V ac PROX.*
6 = 2 x 5-60V dc PROX.*
7 = 4 x V3 MECH LS

WHERE APPLICABLE:

S = STANDARD
Y = NO COST OPTION
E = EXTRA COST OPTION
□ = NOT AVAILABLE

INCLUDING D/A ACTUATOR:

124 } ISO D/A ACT (FOR USE WITH OR WITHOUT POSITIONER)
144 }
164 }
184 }
204 }

127 } ANSI D/A ACT (FOR USE WITH OR WITHOUT POSITIONER)
147 }
167 }
187 }
207 }

V = HIGH TEMP
= STD

HOLE DIAMETER (d)

2=12.7mm 1/2"
3=15.9mm 5/8"
A=11/16"
4=19.1mm 3/4"
5=22.2mm 7/8"
6=25.4mm 1"
7=28.6mm 1 1/8"
8=31.8mm 1 1/4"
9=38.1mm 1 1/2"

POSITION MONITOR ON LS BOX:

C=YES
0=NO

HANDWHEEL OFFSET (E)

	AVAILABLE ON MODELS:				
	12	14	16	18	20
1=300mm 12"	S	S			
2=330mm 13"			S		
3=430mm 17"	E	E	E	S	
4=508mm 20"	E	E	E	E	S
5=600mm 24"	E	E	E	E	E

IF NECESSARY, FIT OPTIONAL EXTENSION TO ENSURE THAT HANDWHEEL IS AT A SAFE DISTANCE FROM MOVING OUTPUT LEVER.

LEVER HOLE PATTERN

No.	DISTANCE FROM CENTRE			AVAILABLE ON MODELS:				
	C1	C2	C3	12	14	16	18	20
01	101.6mm 4"	152.4mm 6"	203.2mm 8"	Y	Y			
02	127mm 5"	152.4mm 6"	177.8mm 7"	Y	Y	Y		
03	127mm 5"	198.1mm 7.8"	254mm 10"	Y	Y	Y		
04	152.4mm 6"	254mm 10"	304.8mm 12"	Y	Y	Y	Y	
05	165.1mm 6.5"	190.5mm 7.5"	215.9mm 8.5"	Y	Y	Y	Y	
06	190.5mm 7.5"	215.9mm 8.5"	241.3mm 9.5"	Y	Y	Y	Y	
07	266.7mm 10.5"	292.1mm 11.5"	317.5mm 12.5"	Y	Y	Y	Y	Y
08	228.6mm 9"	342.9mm 13.5"	457.2mm 18"	Y	Y	Y	Y	
09	254mm 10"	304.8mm 12"	381mm 15"	Y	Y	Y	Y	Y
10	254mm 10"	381mm 15"	508mm 20"	Y	Y	Y	Y	Y
11	254mm 10"	317.5mm 12.5"	406.4mm 16"	Y	Y	Y	Y	Y
12	254mm 10"	330.2mm 13"	406.4mm 16"	Y	Y	Y	Y	Y
13	304.8mm 12"	406.4mm 16"	444.5mm 17.5"	Y	Y	Y	Y	Y
14	317.5mm 12.5"	363.2mm 14.3"	406.4mm 16"	Y	Y	Y	Y	Y
15	147.3mm 5.8"	279.4mm 11"	304.8mm 12"	Y	Y	Y	Y	
16	152.4mm 6"	190.5mm 7.5"	228.6mm 9"	Y	Y	Y		
17	101.6mm 4"		304.8mm 12"	Y	Y			
18			127mm 5"	Y	Y	Y		
19			203.2mm 8"	Y	Y	Y	Y	

* Not available with ATEX approval

For more information see KF-535



Geared Manual Overrides

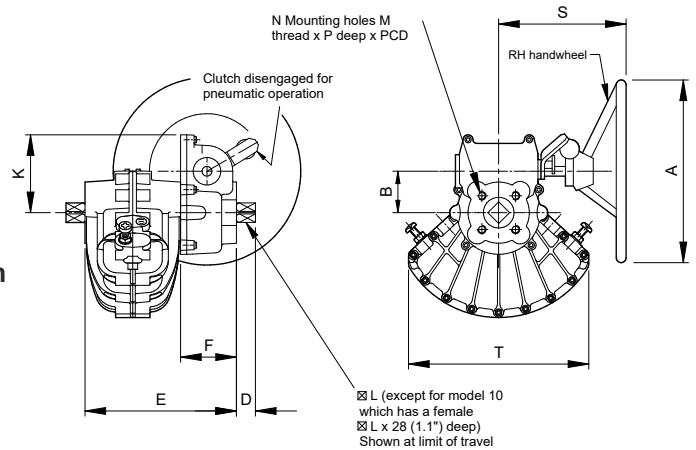


- Declutch lever switch available
- Corrosion resistant - fully sealed to IP65

PHOTO SHOWS LEFT HAND HANDWHEEL.

Kinetrol declutchable geared overrides are available for models 05 to 20 (excluding model 15), rated for the same torques as the actuators and fitted between the actuator and the load. The standard unit is supplied with the right hand handwheel option (see drawing below), whereby when the handwheel is moved in a clockwise direction the actuator moves in a counter clockwise direction. A left hand handwheel option is also available on some models (see below).

Dimensions



DRAWING SHOWS RIGHT HAND HANDWHEEL.

Handwheel Orientation

Models 05 - 14
Standard - Right Hand
- Left Hand option available

Models 16 - 20
Standard - Left Hand only

Working Temperature Range

-20°C to +80°C

Low / High temperature options available on sizes 05 - 14 - contact Kinetrol

Metric Units

Actuator Model (ISO)	A mm	B mm	D mm	E mm	F mm	K mm	$\varnothing L$ mm	M	N No.	P mm	PCD mm	S mm	T mm	Wt kgs
05	300	67.8	13	170	103	127	9.5	M5	6	12	34.9	220	137	9.18
07	300	67.8	20	192	92	127	16.0	M8	4	16	50.9	220	178	11.20
08	300	67.8	19	202	92	127	17.0	M8	4	16	70.0	220	208	10.61
09	300	67.8	26	218	92	127	19.0	M10	4	20	65.0	220	227	12.06
10	300	67.8	-	267	92	127	22.0	M10	4	20	102.0	220	230	13.40
12	300	67.8	31	248	92	127	25.0	M12	4	25	77.8	220	294	15.40
14	400	67.8	38	292	92	127	28.6	M16	4	28	98.8	250	380	22.36
16*	600	141.0	55	462	188	200	41.0	M20	4	28	165.0	376	530	45.00
18*	920	165.0	78	655	295	225	57.0	M16	8	24	254.0	440	679	75.00
20*	610	150.0	100	600	240	300	75.0	M30	8	35	226.3	640	679	113.00

English Units

Actuator Model (ANSI)	A inch	B inch	D inch	E inch	F inch	K inch	$\varnothing L$ inch	M UNC	N No.	N inch	PCD inch	S inch	T inch	Wt lbs
05	11.81	2.67	0.51	6.69	4.06	5.0	0.375	10-24	6	0.47	1.375	8.66	5.39	20.2
07	11.81	2.67	0.79	7.56	3.62	5.0	0.630	$\frac{3}{16}$	4	0.63	2.000	8.66	7.01	24.7
08	11.81	2.67	0.75	7.95	3.62	5.0	0.670	$\frac{3}{16}$	4	0.63	2.760	8.66	8.19	23.4
09	11.81	2.67	1.02	8.58	3.62	5.0	0.748	$\frac{1}{4}$	4	0.79	2.560	8.66	8.94	26.6
10	11.81	2.67	-	10.51	3.62	5.0	0.866	$\frac{3}{8}$	4	0.79	4.016	8.66	9.06	29.5
12	11.81	2.67	1.22	9.76	3.62	5.0	0.984	$\frac{1}{2}$	4	0.98	3.060	8.66	11.57	33.9
14	15.70	2.67	1.50	11.50	3.62	5.0	1.125	$\frac{3}{4}$	4	1.10	3.890	9.84	14.96	49.2

Handwheel Orientation

MODEL	RH HANDWHEEL		LH HANDWHEEL	
	HANDWHEEL DIRECTION	OUTPUT DIRECTION	HANDWHEEL DIRECTION	OUTPUT DIRECTION
05 to 14	CW	CCW	CW	CW
	CCW	CW	CCW	CCW
16 to 20	N/A		CW	CW
	N/A		CCW	CCW

Ordering Codes

Models 05 to 14:

- (Standard right hand handwheel)
Example: 074 K/Box (ISO Version)
077 K/Box (ANSI Version)

- (Left hand handwheel)

Example: 074 K/Box LH (ISO Version)

* For model 16, 18 and 20 replace 'K' with 'G' and add 'LH'

Example: 164 G/Box LH (ISO Version)



Kinetrol's Blueline Food Grade Finish Product

Kinetrol's Blueline coating solution for food production applications meets FDA and BfR L1 specification and is available on all Kinetrol actuators and accessories offering significant advantages including:

- Good resistance to "caustic washdown"
- Exceptional resistance to chipping / flaking
- Good non-stick properties
- Good resistance to salt-laden environments
- In extreme circumstances if the coating becomes dislodged, it is clearly visible to the human eye, and sensors/detectors used in food production



Kinetrol's Valve Automation Service & Interfacing Options

Kinetrol can select, supply and actuate ball, butterfly and plug valves from across the industry or mount free issue valves to Kinetrol actuators and control units for either on / off or modulating valve service.

With over 50 years of valve automation experience Kinetrol can also offer a wide range of engineered and customised packages including assemblies which are SIL rated and/or fully compliant with ATEX, NEC or IEC requirements.

Kinetrol is continually responding to the evolving requirements of the industry for interfacing and mounting arrangements that satisfy user needs and conform to industry standards. The Kinetrol female drive spring fail safe and hand spring unit options with topworks details that conform to ISO 5211 standard, facilitate direct mounting to valves. The innovative, patented ISO adaptor for Kinetrol Models 02 – 09 provides versatile direct mounting to ISO top works valves (see page 26).

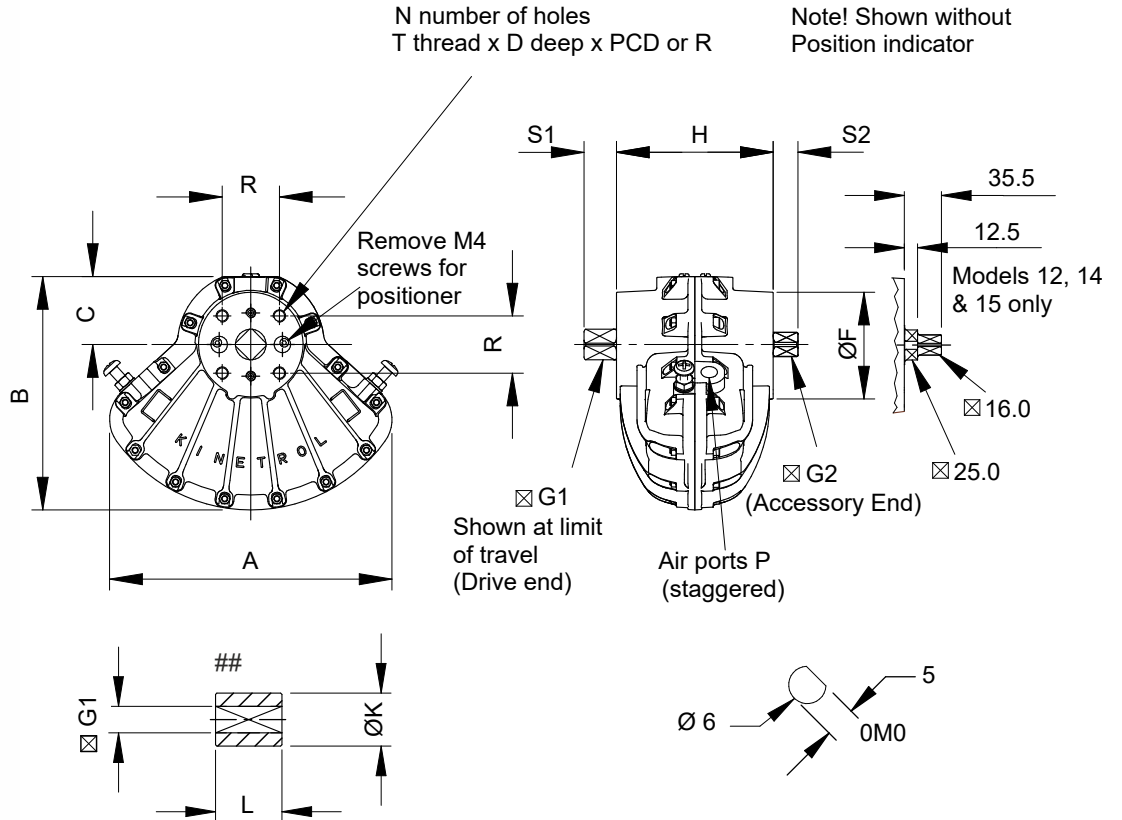
Kinetrol's direct mounting limit switch boxes, positioners and other control modules eliminate the cost of interfacing hardware resulting in compact assemblies. Our larger actuators, models 16 and above also offer a drive slot and insert option which is designed to interface with ancillary drives which comply to VDI/VDE 3485 norm.

Our rigorous QA and test procedures ensure that effective solutions are engineered and built to the highest standard.



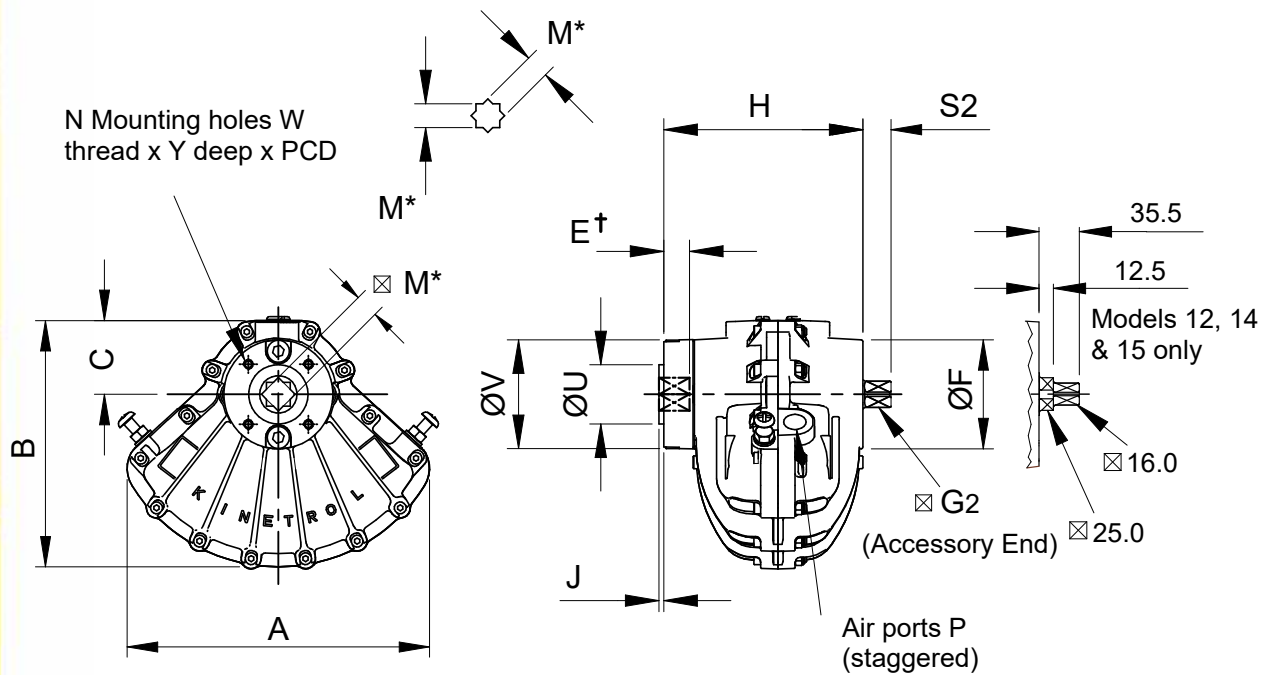
For more information on either of the above please contact Kinetrol.

Standard Actuator



For Model 15, 16, 18, 20, 30 and 60 coupling details see pages 20 to 25

ISO/DIN Options



Actuator Metric Units

Actuator Model	A mm	B mm	C mm	G1 mm	G2 mm	H mm	ØF mm	S1 mm	S2 mm	N No.	T ISO	D mm	R mm	PCD mm	P ISO	ØK mm	L mm	Wt kg †
0M0	32	31	12.5	SEE PAGE 57		36	22	10.0	10.0	4	M3	5.0	-	16.0**	M5	-	-	0.12
014	72	59	14.0	4.8	4.8	38	26	12.7*	7.0	4	M4	6.0	-	19.0**	G½	9.5	12.7	0.29
014P	74	60	14.0	4.8	4.8	38	26	12.7*	7.0	4	Ø4.2	UNIQUE MOUNTING CRS.		G½	9.5	12.7	0.35	
024	91	76	24.1	8.0	8.0	50	29	10.0	10.0	4	M4	8.0	18.0	25.5	G½	16.0	20.0	0.46
034	113	92	28.0	9.0	9.0	60	36	12.0	12.0	4	M5	10.0	22.0	31.1	G½	18.0	22.0	0.73
054	137	113	33.6	9.5	9.5	67	50	13.0	13.0	6	M5	10.0	-	34.9	G½	19.0	25.4	1.28
074	178	147	43.4	16.0	16.0	100	68	20.0	20.0	4	M8	16.0	36.0	50.9	G¾	32.0	40.0	1.97
084	208	167	46.3	17.0	16.0	110	65	19.0	20.0	4	M8	16.0	49.5	70.0	G¾	36.0	42.0	2.78
094	227	187	54.7	19.0	16.0	126	84	26.0	20.0	4	M10	20.0	46.0	65.0	G¾	38.0	50.0	4.16
124	294	239	68.0	25.0	16.0	156	100	31.0	35.5	4	M12	24.0	55.0	77.8	G¾	50.0	56.0	7.30
144	380	308	84.0	28.6	16.0	200	128	38.0	35.5	4	M16	28.5	69.9	98.8	G½	57.0	63.5	14.10
154	433	353	101.0	36.0	16.0	245	138	41.0	35.5	4	M16	28.5	99.0	140.0	G½	70.0	80.0	22.70
164	530	427	125.0	41.0	41.0	274	175	55.0	55.0	4	M24	38.0	108.0	152.7	G½	85.0	90.0	39.77
184	680	554	162.0	57.0	57.0	360	286	78.0	78.0	4	M30	50.0	160.0	226.3	G¾	115.0	130.0	94.00
204	680	554	162.0	73.0	73.0	620	286	100.0	100.0	8	M30	50.0	160.0	226.3	G1	150.0	170.0	211.00
304	680	554	162.0	73.0	73.0	880	286	100.0	100.0	8	M30	50.0	160.0	226.3	G1	150.0	170.0	288.40
604	1204	944	257.0	100.0	73.0	590	428	100.0	120.0	8	M30	80.0	-	356.0	G2	200.0	140.0	497.00

* INCLUDES PLAIN SHAFT Ø6.35 x 8 LONG

** HOLES ON CENTRE LINES

† All weights include coupling - except 103

Actuator English Units

Actuator Model	A inch	B inch	C inch	G1 inch	G2 inch	H inch	ØF inch	S1 inch	S2 inch	N No.	T UNC	D inch	R inch	PCD inch	P NPT	ØK inch	L inch	Wt lb †
0M0	1.26	1.22	0.49	SEE PAGE 57		1.42	0.87	0.39	0.39	4	M3	0.20	0.390	0.630	M5	-	-	0.26
017	2.83	2.32	0.55	0.187	0.19	1.50	1.02	0.50*	0.28	4	8-32	0.24	-	0.750	½	0.37	0.50	0.63
017P	2.91	2.36	0.55	0.187	0.19	1.50	1.02	0.50*	0.39	4	Ø0.17	UNIQUE MOUNTING CRS.		½	0.37	0.50	0.78	
027	3.58	3.00	0.95	0.315	0.32	1.97	1.14	0.39	0.47	4	8-32	0.31	0.709	1.000	½	0.63	0.79	1.01
037	3.62	3.60	1.10	0.354	0.35	2.36	1.42	0.47	0.51	4	10-24	0.39	0.866	1.225	½	0.71	0.87	1.61
057	4.45	3.62	1.32	0.375	0.37	2.64	1.97	0.51	0.51	6	10-24	0.39	-	1.375	½	0.75	1.00	2.82
077	5.79	4.45	1.71	0.630	0.63	3.94	2.68	0.79	0.79	4	¾-18	0.63	1.417	2.000	¼	1.26	1.57	4.34
087	6.57	5.79	1.82	0.669	0.63	4.33	2.56	0.75	0.79	4	¾-18	0.63	1.949	2.756	¼	1.42	1.65	6.10
097	8.94	7.36	2.16	0.748	0.63	4.96	3.31	1.02	0.79	4	¾-16	0.79	1.811	2.560	¼	1.50	1.97	9.15
107 #	9.00	7.40	2.20	0.866	0.63	6.89	5.43	0.94	0.79	4	¾-16	0.63	2.839	4.016	¼	-	-	11.90
127	11.57	9.41	2.68	0.984	0.63	6.14	3.94	1.22	1.40	4	½-13	0.94	2.165	3.060	¾	1.97	2.20	16.11
147	14.96	12.13	3.31	1.125	0.63	7.87	5.00	1.50	1.40	4	¾-11	1.12	2.750	3.890	½	2.24	2.50	31.10
157	17.05	13.90	3.98	1.417	0.63	9.65	6.70	1.61	1.40	4	¾-11	1.12	3.900	5.512	½	2.76	3.15	49.90
167	20.87	16.81	4.92	1.614	1.61	10.79	6.90	2.17	2.17	4	¾-9	1.50	4.250	6.010	½	3.35	3.54	87.49
187	26.77	21.81	6.38	2.244	2.24	14.17	11.26	3.07	3.07	4	1½-7	1.97	6.300	8.910	¼	4.53	5.12	207.23
207	26.77	21.81	6.38	2.874	2.87	24.41	11.26	3.94	3.94	8	1½-7	1.97	6.300	8.910	1	5.91	6.69	464.20
307	26.77	21.81	6.38	2.874	2.87	34.65	11.26	3.94	3.94	8	1½-7	1.97	6.300	8.910	1	5.91	6.69	634.50
607	47.40	37.17	10.12	3.937	2.87	23.23	16.85	4.72	3.94	8	1½-7	3.15	-	14.020	2	7.87	5.51	1095.70

FEMALE DRIVE

† All weights include coupling - except 107

ISO/DIN Options

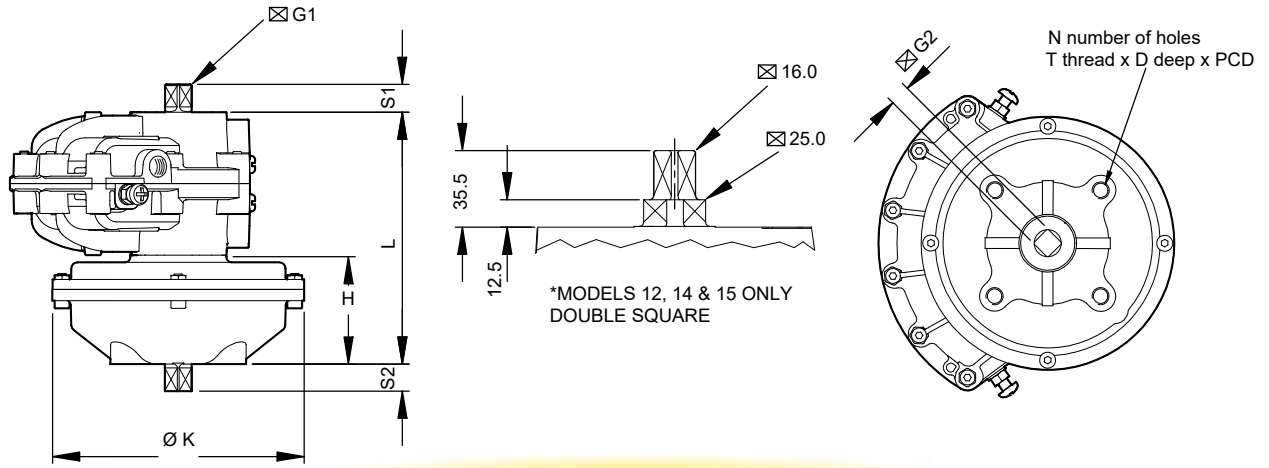
Actuator Model	A mm	B mm	C mm	H mm	ØF mm	ISO/DIN flange no.	M* mm	V mm	ØU mm	PCD mm	N No.	W mm	Y(Min) mm	J mm	E † mm	P Port	G2 mm	S2 mm
023	91	76	24.1	66	29	F03	9	46	25	36	4	M5	8	2	10	G½	8.0	10.0
033	113	92	28.0	74	36	F03	9	46	25	36	4	M5	8	2	10	G½	9.0	12.0
053	137	113	33.6	81	50	F04	11	54	30	42	4	M5	8	2	12	G½	9.5	13.0
073	178	147	43.4	117	68	F05	14	64	35	50	4	M6	10	3	16	G¾	16.0	20.0
083	208	167	46.3	133	65	F07	17	70	55	70	4	M8	16	3	19	G¾	16.0	20.0
093	227	187	54.7	146	84	F07	17	85	55	70	4	M8	13	3	19	G¾	16.0	20.0
103	229	188	57.0	175	77	F10	22	-	-	102	4	M10	16	-	24	G¾	16.0	20.0
123	294	239	68.0	181	100	F10	22	125	70	102	4	M10	16	3	24	G¾	16.0	35.5
143	380	308	84.0	227	128	F12	27	150	85	125	4	M12	20	3	29	G½	16.0	35.5
163	530	427	125.0	380	175	F16	46	203	130	165	4	M20	32	4	48	G½	41.0	55.0
183	680	554	162.0	501	286	F25	55	300	200	254	8	M16	24	4	57	G¾	57.0	78.0
203	680	554	162.0	800	286	F30	75	350	230	298	8	M20	30	4	77	G1	73.0	100.0

† Minimum

* Models 02, 03, 05, 07, 09, 12 and 14 are female star drive, all other models are female square drive



Male Spring Return Actuator Dimensions



Metric Units

Actuator** Model	L mm	H mm	ØK mm	⊠G1 mm	⊠G2 mm	S1 mm	S2 mm	N No.	T ISO	D mm	PCD mm	Wt kg †
024-120	90	40	73	8.0	8.0	10	10	4	M4	8.0	25.5	0.93
034-120	103	43	108	9.0	9.0	12	12	4	M5	10.0	31.1	2.03
054-120	117	50	119	9.5	9.5	13	13	6	M5	8.0	34.9	3.12
074-120	182	82	152	16.0	16.0	20	20	4	M8	16.0	50.9	4.71
084-120	197	87	174	16.0	17.0	20	19	4	M8	16.0	70.0	7.62
094-120	218	92	200	16.0	19.0	20	26	4	M10	20.0	65.0	11.06
104-120	285	110	206	16.0	22.0	20	26	4	M10	16.0	102.0	14.80
124-120	292	136	258	16.0*	25.0	36	31	4	M12	24.0	77.8	23.50
144-120-4900	417	217	258	16.0*	28.6	36	38	4	M16	28.5	98.8	43.10
144-120	387	187	396	16.0*	28.6	36	38	4	M16	28.5	98.8/140.0	64.10
144-120-5000	337	137	258	16.0*	28.6	36	38	4	M16	28.5	98.8	38.18
154-120	432	187	396	16.0*	36.0	36	41	4	M16	28.5	140.0	77.00
164-120-6100	461	187	396	41.0	41.0	55	55	4	M24	28.0	152.7	88.10
164-120	486	212	524	41.0	41.0	55	55	4	M24	38.0	152.7	140.0
184-120-7000	572	212	524	57.0	57.0	78	78	4	M30	50.0	226.3	161.0
184-120	602	242	634	57.0	57.0	78	78	4	M30	50.0	226.3	278.0
204-120-8000	861	238	634	73.0	73.0	100	100	8	M30	50.0	226.3	390.0
204-120-7300	1032	412	524	73.0	73.0	100	100	8	M30	50.0	226.3	408.0
204-120	982	359	634	73.0	73.0	100	100	8	M30	50.0	226.3	538.0
304-120-7600	1293	412	524	73.0	73.0	100	100	8	M30	50.0	226.3	524.0
304-120-8300	1243	358	634	73.0	73.0	100	100	8	M30	50.0	226.3	630.4
304-120-7800	1493	612	524	73.0	73.0	100	100	8	M30	50.0	226.3	688.0
304-120	1354	483	634	73.0	73.0	100	100	8	M30	50.0	226.3	768.4
600-120-8400***	1194	604	634	***	***	***	***	***	***	***	***	1125.0
600-120-8500***	1315	725	634	***	***	***	***	***	***	***	***	1272.0
600-120***	1436	846	634	***	***	***	***	***	***	***	***	1420.0

*** Springs mounted above actuator - see page 25 for mounting details

† All weights include coupling - except 103

English Units

Actuator** Model	L inch	H inch	ØK inch	⊠G1 inch	⊠G2 inch	S1 inch	S2 inch	N No.	T UNC	D inch	PCD inch	Wt lb †
027-120	3.54	1.58	2.87	0.315	0.315	0.39	0.39	4	8-32	0.31	1.00	2.05
037-120	4.06	1.69	4.21	0.354	0.354	0.47	0.47	4	10-24	0.39	1.225	4.48
057-120	4.61	1.97	4.69	0.375	0.375	0.51	0.51	6	10-24	0.31	1.375	6.88
077-120	7.17	3.23	6.00	0.630	0.630	0.79	0.79	4	5/16-18	0.63	2.00	10.38
087-120	7.76	3.43	6.85	0.630	0.669	0.79	0.75	4	5/16-18	0.63	2.76	16.80
097-120	8.58	3.62	7.90	0.630	0.748	0.79	1.02	4	3/8-16	0.79	2.56	24.38
107-120	11.22	4.33	8.11	0.630	0.866	0.79	1.02	4	3/8-16	0.63	4.02	32.63
127-120	11.50	5.35	10.16	0.630*	0.984	1.40	1.22	4	1/2-13	0.94	3.06	51.81
147-120-4900	16.43	8.54	10.16	0.630*	1.125	1.40	1.50	4	5/8-11	1.12	3.89	95.02
147-120	15.24	7.36	15.59	0.630*	1.125	1.40	1.50	4	5/8-11	1.13	5.51	141.32
147-120-5000	13.27	5.40	10.16	0.630*	1.125	1.40	1.50	4	5/8-11	1.13	3.89	84.19
157-120	17.00	7.36	15.59	0.630*	1.417	1.40	1.61	4	5/8-11	1.13	5.51	170.0
167-120-6100	18.15	7.36	15.59	1.614	1.614	2.17	2.17	4	7/8-9	1.10	6.01	194.2
167-120	19.11	8.33	20.63	1.614	1.614	2.17	2.17	4	7/8-9	1.50	6.01	308.0
187-120-7000	22.50	8.33	20.63	2.244	2.244	3.07	3.07	4	1 1/8-7	1.97	8.91	356.0
187-120	23.69	9.52	24.96	2.244	2.244	3.07	3.07	4	1 1/8-7	1.97	8.91	612.9
207-120-8000	33.90	9.37	24.96	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	859.8
207-120-7300	40.61	16.20	20.63	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	901.0
207-120	38.67	14.13	24.96	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	1186.1
307-120-7600	50.91	16.20	20.63	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	1158.0
307-120-8300	48.93	14.13	24.96	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	1389.8
307-120-7800	58.78	24.07	20.63	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	1520.0
307-120	53.68	19.02	24.96	2.874	2.874	3.94	3.94	8	1 1/8-7	1.97	8.91	1694.0
609-120-8400***	47.01	23.78	24.96	***	***	***	***	***	***	***	***	2480.0
609-120-8500***	51.77	28.54	24.96	***	***	***	***	***	***	***	***	2804.0
609-120***	56.54	33.31	24.96	***	***	***	***	***	***	***	***	3131.0

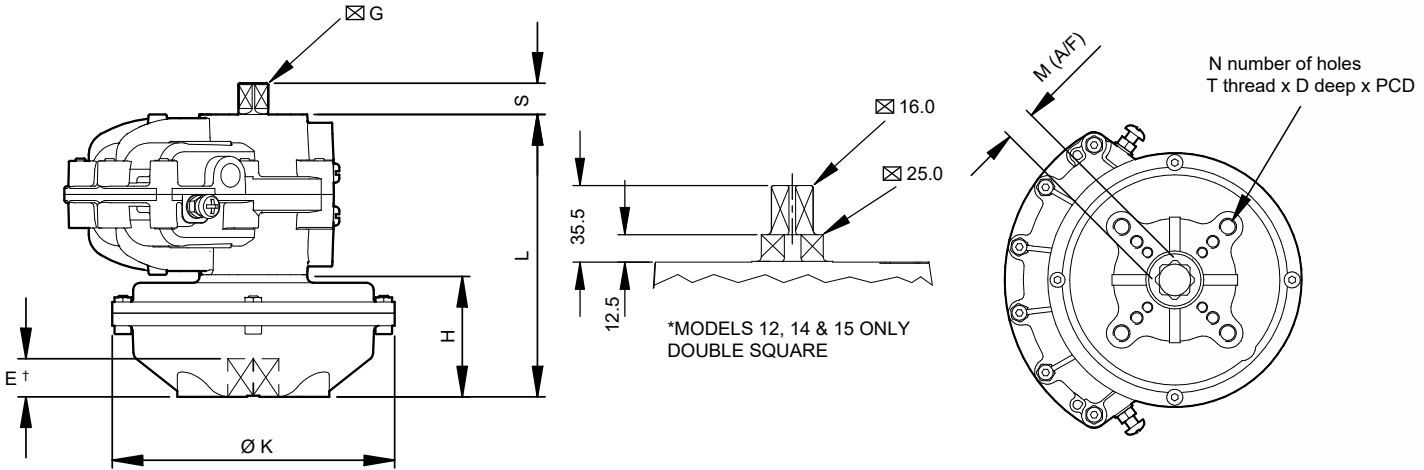
*** Springs mounted above actuator - see page 25 for mounting details

† All weights include coupling - except 107



** Clockwise (120) and counterclockwise (130) units have identical dimensions

ISO Flange Female Spring Return Actuator Dimensions



Metric Units

Actuator** Model	ISO Flange No.	L mm	H mm	ØK mm	M mm	S mm	⊠G mm	E † mm	N No.	T ISO	D mm	PCD mm
033F120	F03/F05	103	43	108	11	12	9.0	12	4	M5/M6	8/10	36/50
033F180	F04	103	43	108	11	12	9.0	12	4	M5	10	42
053F120	F03/F05/F07	117	50	119	14	13	9.5	16	4	M5/M6/M8	10/12/13	36/50/70
053F180	F04	117	50	119	14	13	9.5	16	4	M5	10	42
073F120-4000	F03/F05/F07	150	50	118	14	20	16.0	16	4	M5/M6/M8	10/12/13	36/50/70
073F120	F05/F07	182	82	152	17	20	16.0	19	4	M6/M8	10/13	50/70
083F120	F07	197	87	174	17	20	16.0	19	4	M8	16	70
093F120-4200	F05/F07	208	82	152	17	20	16.0	19	4	M6/M8	10/13	50/70
093F120	F07/F10	218	92	200	22	20	16.0	24	4	M8/M10	13/16	70/102
103F120-5800	F07/F10	268	92	200	22	20	16.0	24	4	M8/M10	13/16	70/102
103F120	F10	285	110	206	22	20	16.0	24	4	M10	16	102
123F120-4300	F10	248	92	200	22	35.5	16.0*	25	4	M10	16	102
123F120	F10	292	136	258	22	35.5	16.0*	25	4	M10	16	102
123F180	F12	292	136	258	27	35.5	16.0*	29	4	M12	20	125
143F120-4900	F12	417	217	258	27	35.5	16.0*	29	4	M12	20	125
143F120-5000	F12	337	136	258	27	35.5	16.0*	29	4	M12	20	125
143F120	F12	387	187	396	27	35.5	16.0*	29	4	M12	24	125
153F120***	F14	432	187	396	36	35.5	16.0*	38	4	M16	28	140
163F120***	F14	486	212	524	36	55	41.0	38	4	M16	24	140
183F120-7000***	F16	572	212	524	46	78	57.0	48	4	M20	30	165
183F120***	F16	602	242	634	46	78	57.0	48	4	M20	30	165
203F120-8000***	F25	861	238	634	55	100	73.0	57	8	M16	24	254
203F120-7300***	F25	1032	412	524	55	100	73.0	57	8	M16	24	254
203F120***	F25	982	359	634	55	100	73.0	57	8	M16	24	254

English Units

Actuator** Model	ISO Flange No.	L inch	H inch	ØK inch	M inch	S inch	⊠G inch	E † inch	N No.	T UNC	D inch	PCD inch
037F120	F03/F05	4.06	1.69	4.21	0.433	0.47	0.354	0.47	4	10-24 1/4	0.31/0.39	1.41/1.97
037F180	F04	4.06	1.69	4.21	0.433	0.47	0.354	0.47	4	10-24	0.39	1.65
057F120	F03/F05/F07	4.61	1.97	4.69	0.551	0.51	0.374	0.63	4	10-24 1/4 5/16	0.39/0.47/0.51	1.42/1.97/2.76
057F180	F04	4.61	1.97	4.69	0.551	0.51	0.374	0.63	4	10-24	0.39	1.65
077F120-4000	F03/F05/F07	5.91	1.97	4.65	0.551	0.79	0.630	0.63	4	10-24 1/4 5/16	0.39/0.47/0.51	1.42/1.97/2.76
077F120	F05/F07	7.17	3.23	5.98	0.669	0.79	0.630	0.75	4	1/4 5/16	0.39/0.51	1.97/2.76
087F120	F07	7.76	3.43	6.85	0.669	0.79	0.630	0.75	4	5/16	0.63	2.76
097F120-4200	F05/F07	8.19	3.23	5.98	0.669	0.79	0.630	0.75	4	1/4 5/16	0.39/0.51	1.97/2.76
097F120	F07/F10	8.58	3.62	7.87	0.866	0.79	0.630	0.94	4	5/16 3/8	0.51/0.63	2.76/4.01
107F120-5800	F07/F10	10.55	3.62	7.87	0.866	0.79	0.630	0.94	4	5/16 3/8	0.51/0.63	2.76/4.01
107F120	F10	11.22	4.33	8.11	0.866	0.79	0.630	0.94	4	3/8	0.63	4.02
127F120-4300	F10	9.76	3.62	7.87	0.866	1.40	0.630*	0.94	4	3/8	0.63	4.02
127F120	F10	11.50	5.35	10.16	0.866	1.40	0.630*	0.98	4	3/8	0.63	4.02
127F180	F12	11.50	5.35	10.16	1.063	1.40	0.630*	0.98	4	1/2	0.79	4.92
147F120-4900	F12	16.42	8.54	10.16	1.063	1.40	0.630*	1.14	4	1/2	0.79	4.92
147F120-5000	F12	13.27	5.35	10.16	1.063	1.40	0.630*	1.14	4	1/2	0.79	4.92
147F120	F12	15.24	7.36	15.59	1.063	1.40	0.630*	1.14	4	1/2	0.94	4.92
157F120***	F14	17.00	7.36	15.59	1.420	1.40	0.630*	1.50	4	5/8	1.10	5.51
167F120***	F14	19.13	8.35	20.63	1.417	2.17	1.614	1.50	4	5/8	0.94	5.51
187F120-7000***	F16	22.52	8.35	20.63	1.811	3.07	2.244	1.89	4	3/4	1.18	6.50
187F120***	F16	23.69	9.52	24.96	1.811	3.07	2.244	1.89	4	3/4	1.18	6.50
207F120-8000***	F25	33.90	9.37	24.96	2.165	3.94	2.874	2.24	8	5/8	0.94	10.00
207F120-7300***	F25	40.63	16.22	20.63	2.165	3.94	2.874	2.24	8	5/8	0.94	10.00
207F120***	F25	38.67	14.13	24.96	2.165	3.94	2.874	2.24	8	5/8	0.94	10.00

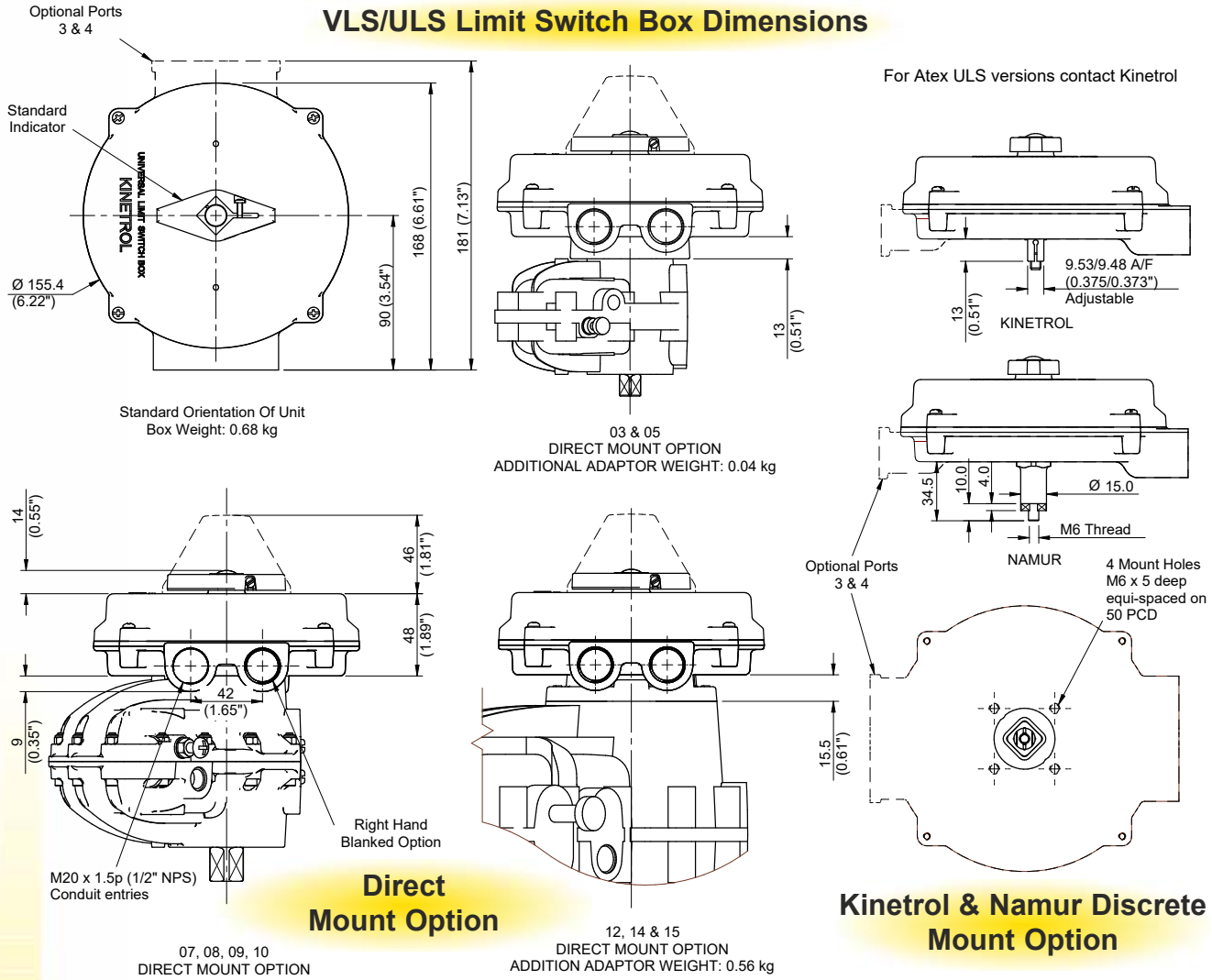
† Minimum



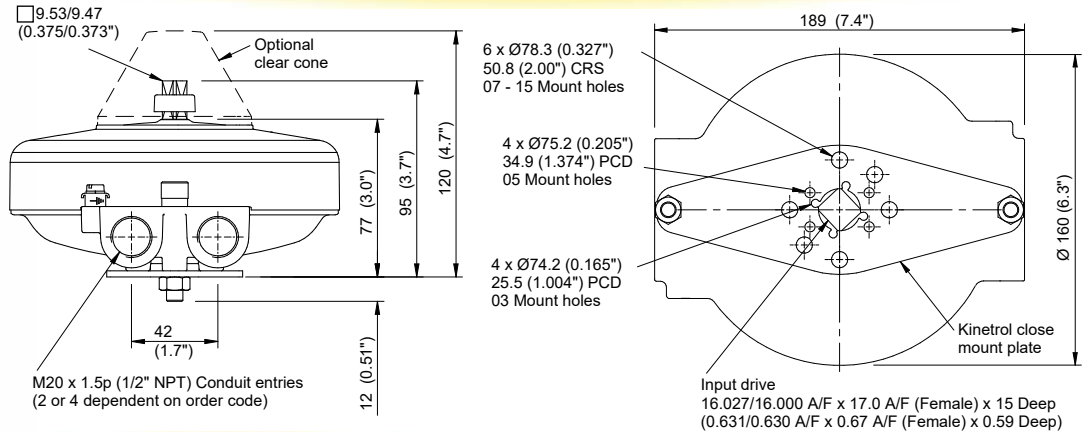
** Clockwise (120 or 180) and counterclockwise (130 or 190) units have identical dimensions

All female drives are "Star" type except for sizes marked "****" where square orientation is shown by dimension "M"

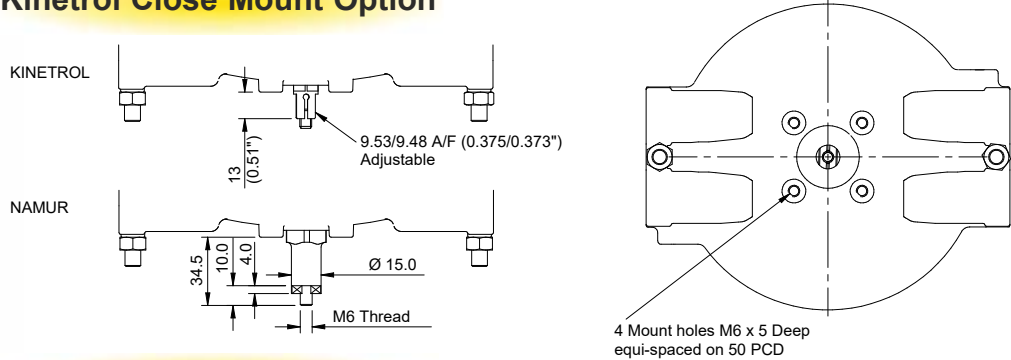
VLS/ULS Limit Switch Box Dimensions



Explosion Proof Limit Switch Box Dimensions

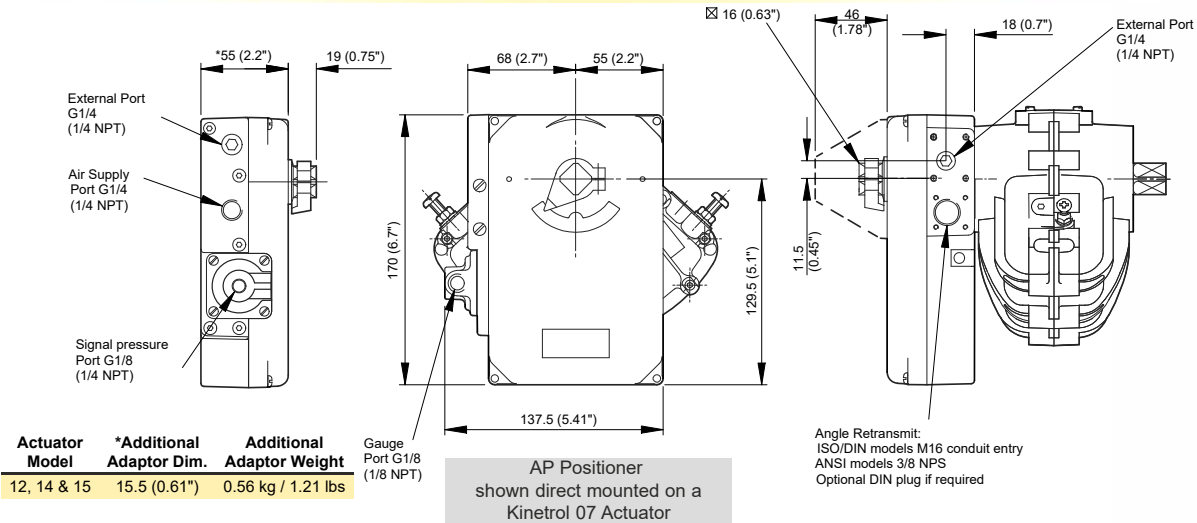


Kinetrol Close Mount Option

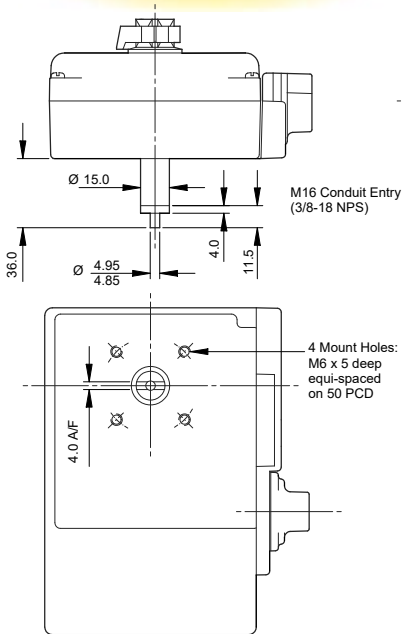


Discrete Mount Option

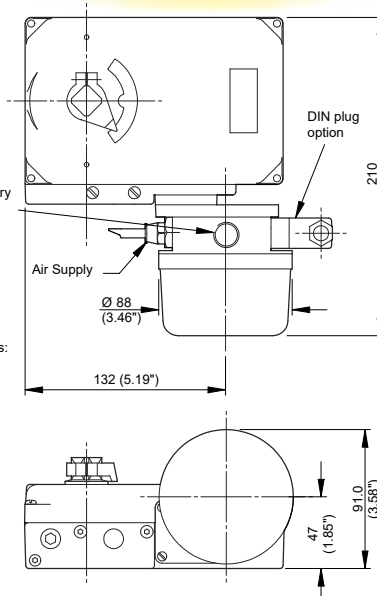
AP Positioner Dimensions



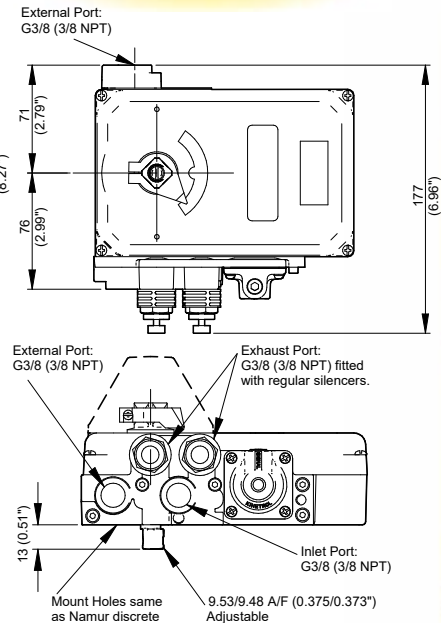
Namur Discrete Version



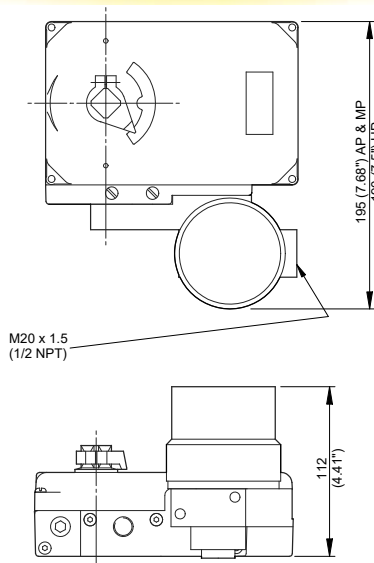
Non-Hazardous I/P Version



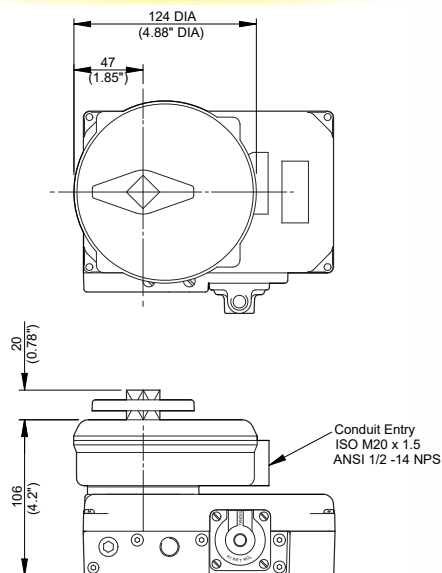
Kinetrol Discrete/High Flow Version



Explosion Proof I/P Version

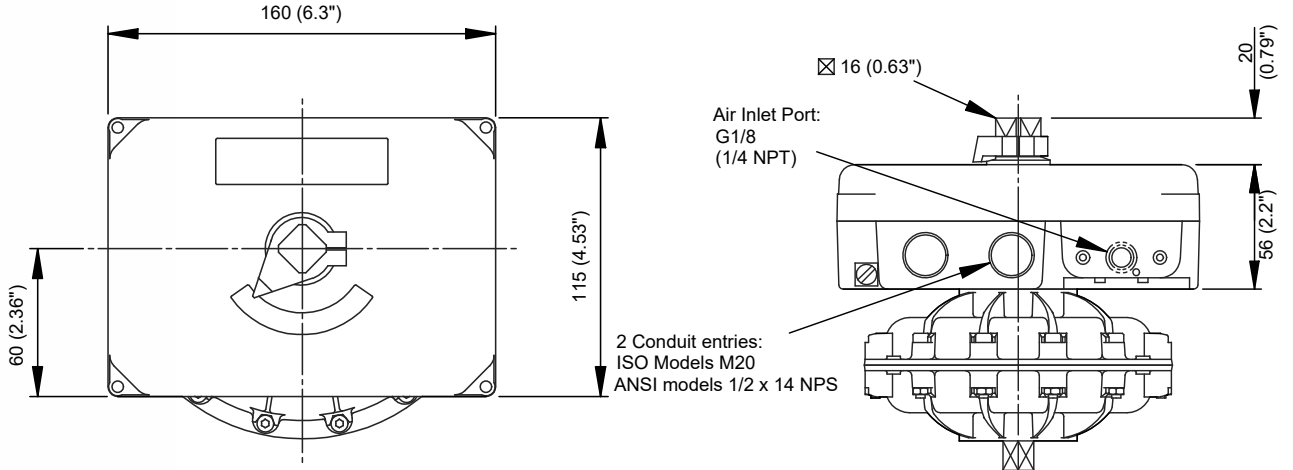


Switch Box Version



Where drawing information is not given - it is the same as the direct mount version

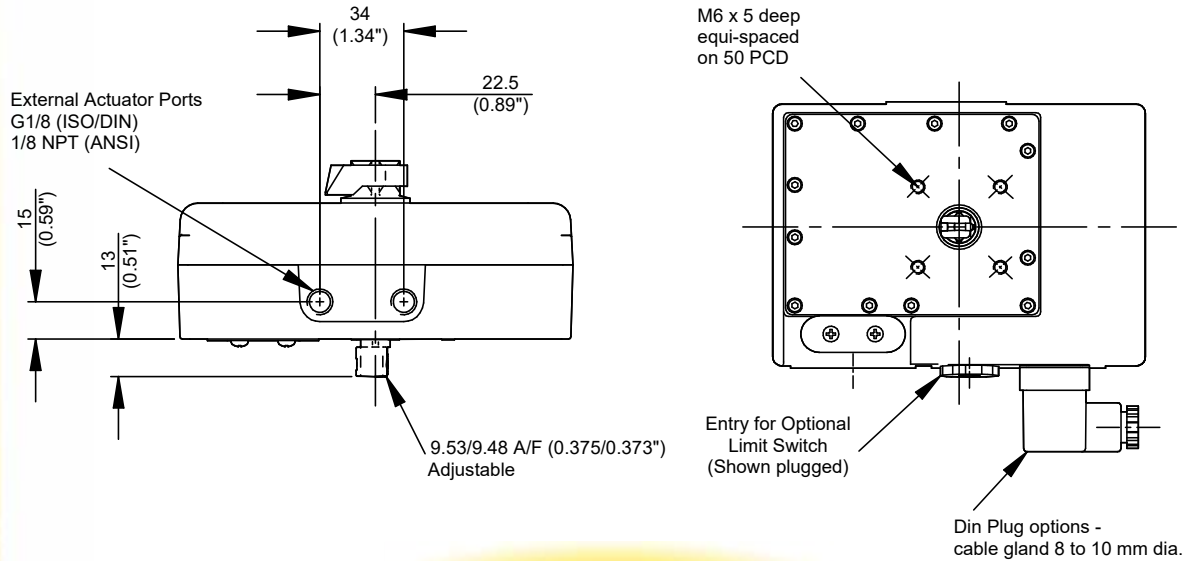
EL Positioner Dimensions



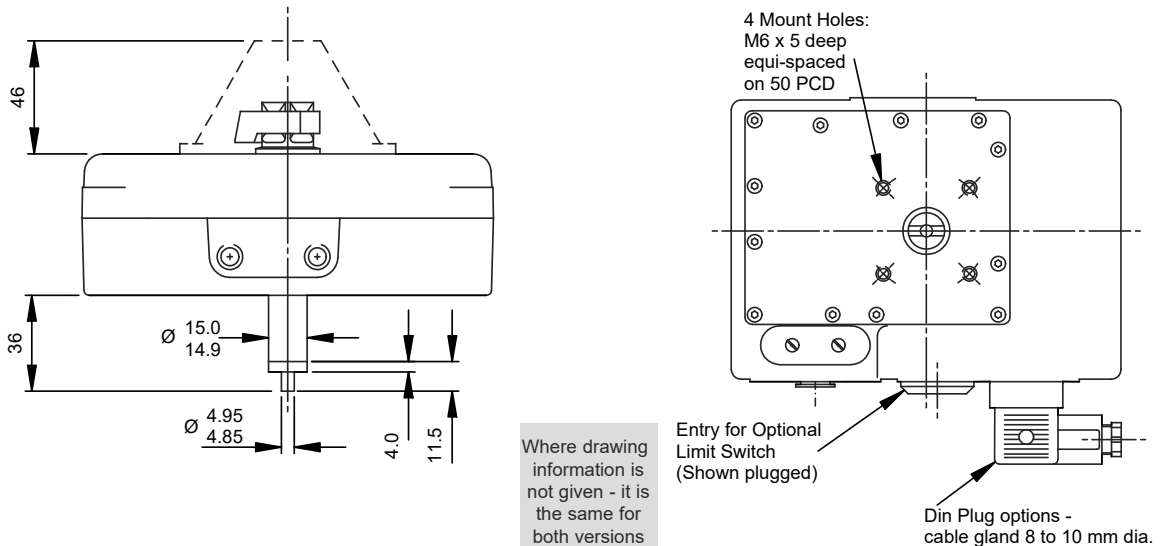
Actuator Model	*Additional Adaptor Dim.	Additional Adaptor Weight
12, 14 & 15	15.5 (0.61")	0.56 kg / 1.21 lbs

EL Positioner shown direct mounted on a Kinetrol 05 actuator

Kinetrol Discrete Version



Namur Discrete Version

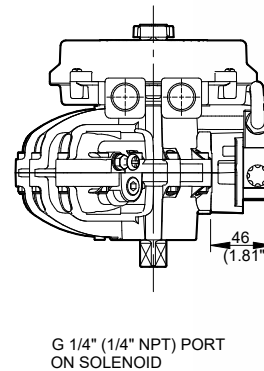
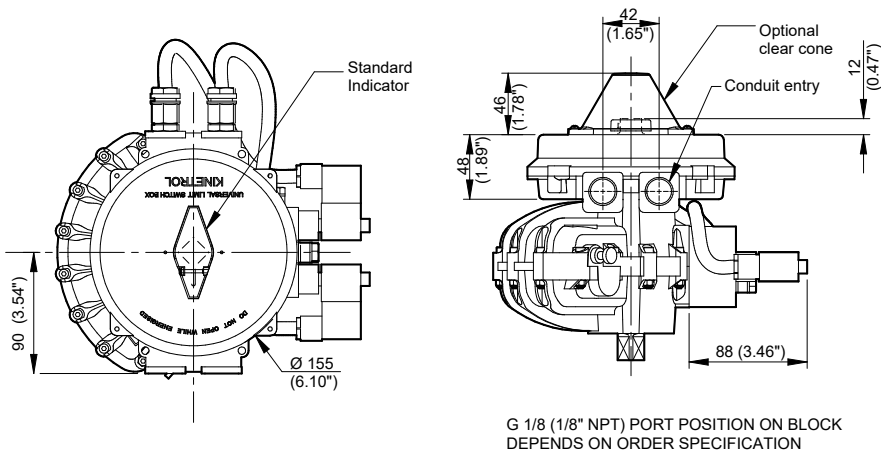


Where drawing information is not given - it is the same for both versions

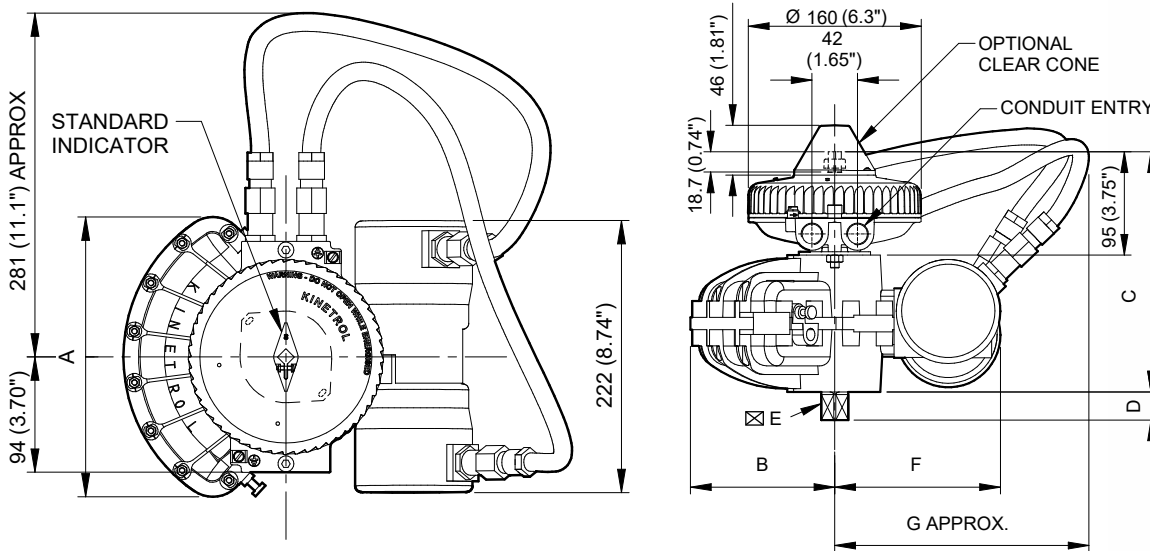
P3 On/Off Pneumatic Positioner Dimensions

Fail free / Fail down / Spring return units

Fail hold unit



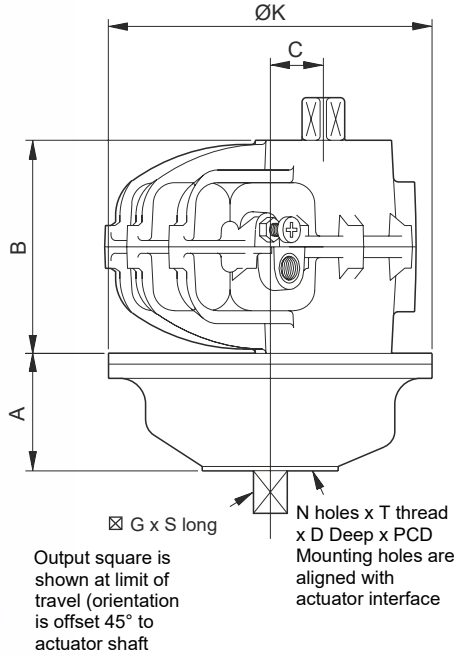
Explosion Proof P3 On/Off Positioner Dimensions



Model	A	B	C	D	⊠E	F	G
05	137.0 (5.39")	78.4 (3.09")	162 (6.4")	13.0 (0.51")	9.5 (0.375")	133 (5.2")	214 (8.4")
07	178.0 (7.01")	102.6 (4.04")	195 (7.7")	20.0 (0.79")	16.0 (0.630")	142 (5.6")	223 (8.8")
08	208.0 (8.19")	120.7 (4.75")	205 (8.1")	19.0 (0.75")	17.0 (0.669")	145 (5.7")	226 (8.9")
09	227.0 (8.94")	133.0 (5.24")	221 (8.7")	26.0 (1.02")	19.0 (0.748")	153 (6.0")	234 (9.2")
10	229.0 (9.00")	130.5 (5.14")	273 (10.75")	24.0 (0.94")	22.0* (0.870")	155 (6.2")	236 (9.3")
12	294.0 (11.57")	171.0 (6.73")	266 (10.5")	31.0 (1.22")	25.0 (0.984")	167 (6.6")	218 (8.6")
14	380.0 (14.96")	222.0 (8.74")	314 (12.4")	38.0 (1.50")	28.6 (1.125")	183 (7.2")	264 (10.4")
15	433.0 (17.05")	252.0 (9.92")	355 (14.0")	41.0 (1.61")	36.0 (1.417")	200 (7.9")	281 (11.1")

* Model 10 DIN (F10) Female Drive

180 Degree Actuator Dimensions



Dimensions/Metric Units

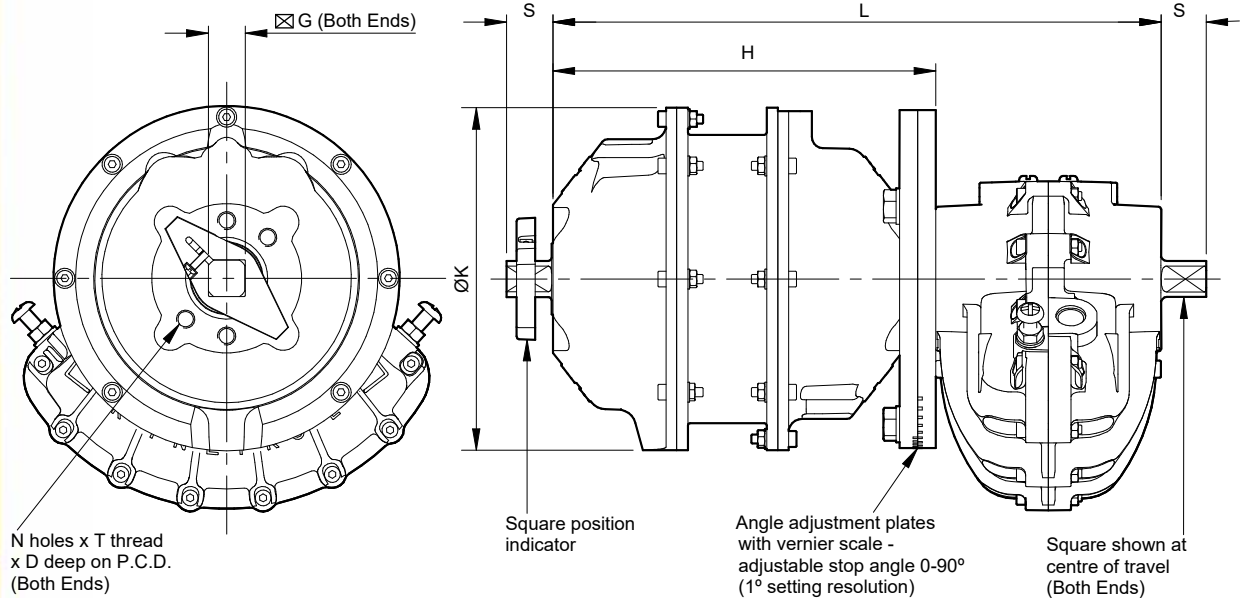
Actuator Model	A mm	B mm	C mm	K mm	G mm	S mm	N	T ISO	D mm	PCD mm	W kg
02 - 1001	32	50	12.5	73	8.0	10.0	4	M4	8.0	25.5	1.1
03 - 1001	36	60	20	108	9.0	12.0	4	M5	10.0	31.1	2
05 - 1001	42	67	20	119	9.5	13.0	6	M5	8.0	34.9	2.5
07 - 1001	59	100	25	152	16.0	20.0	4	M8	16.0	50.9	4.57
09 - 1001	70	126	35	200	19.0	26.0	4	M10	20.0	65.0	13.2
12 - 1001	99	156	45	258	25.0	31.0	4	M12	22.0	77.8	20.45
14 - 1001	125	200	70	396	28.6	38.0	4	M16	28.5	98.8	35.25
16 - 1001	176	274	100	520	41.0	55.0	4	M24	38.0	152.7	125

Dimensions/English Units

Actuator Model	A inch	B inch	C inch	K inch	G inch	S inch	N	T UNC	D inch	PCD inch	W lb
02 - 1001	1.24	1.97	0.49	2.87	0.315	0.39	4	8-32	0.31	1.000	2.43
03 - 1001	1.40	2.36	0.79	4.25	0.354	0.47	4	10-24	0.39	1.225	4.41
05 - 1001	1.65	2.64	0.79	4.69	0.375	0.51	6	10-24	0.31	1.375	5.51
07 - 1001	2.32	3.94	0.98	6.00	0.630	0.79	4	3/16-18	0.63	2.000	11.68
09 - 1001	2.76	4.96	1.38	7.90	0.748	1.02	4	3/8-16	0.79	2.560	29.10
12 - 1001	3.90	6.14	1.77	10.16	0.984	1.22	4	1/2-13	0.87	3.060	44.99
14 - 1001	4.92	7.87	2.76	15.59	1.125	1.50	4	5/8-11	1.13	3.890	77.55
16 - 1001	6.93	10.79	3.94	20.47	1.614	2.17	4	3/4-9	1.50	6.012	275.00

N.B. Weights are inclusive of actuator and 180 degree assembly, coupling and indicator (except models 14 & 16).

Spring to Centre Dimensions



Actuator Model	L mm	H mm	K mm	G mm	S mm	N No.	T ISO	D mm	PCD mm	Wgt* kg
050-1205	178	111	119	9.5	13	6	M5	10	34.9	4.0
070-1205	270	170	152	16.0	20	4	M8	16	50.9	10.2
090-1205	328	202	200	19.0	26	4	M10	20	65.0	23.6
120-1205	466	310	258	25.0	31	4	M12	22	77.8	36.0
140-1205	640	440	400	28.6	38	4	M16	28	98.8	124.0
160-1205	880	606	400	41.0	55	4	M24	38	152.7	200.0
180-1205	1163	803	532	57.0	78	4	M30	50	226.3	445.0

* Weight includes standard coupling

Spring Fail-Safe Electric Actuators

Kinetrol's double acting and spring return electrohydraulic actuators are designed for use in locations without a compressed air supply. A hydraulic pump delivers pressurised oil to a Kinetrol quarter-turn actuator, providing a double acting torque output up to 1220 Nm/10800 lbf in.

In the case of single acting units, a Kinetrol spring return and fail-open solenoid valve produce a positive fail-safe action.

A 100% rated pump motor and pressure release valve provide stall protection. This, together with the units capacity for up to 3000 starts per hour, make it ideal for both high cycle double acting or modulating applications.

Various AC and DC voltage builds are available and options include auxiliary limit switches and/or a 4-20 mA transducer for position feedback.

See leaflet KF-503 for further information.



Rotary Dampers

Kinetrol's range of fluid dashpots are used to steady drives, decelerate motion and damp vibration. Standard designs include fixed and adjustable rate devices for limited angle or continuous rotation damping in one or both directions of travel.

Applications for these robust, industrial dampers include the precise control of:

- tension on wire/paper/film/textile handling equipment
- the rate of descent of curtains, shutters, etc.
- oscillations of pendulums, gimbals, etc.
- jerk on camera & simulator systems
- vibration on transfer machinery.

See catalogue KF-72 for more information.
If required, Kinetrol can engineer special designs to meet customers specifications.



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