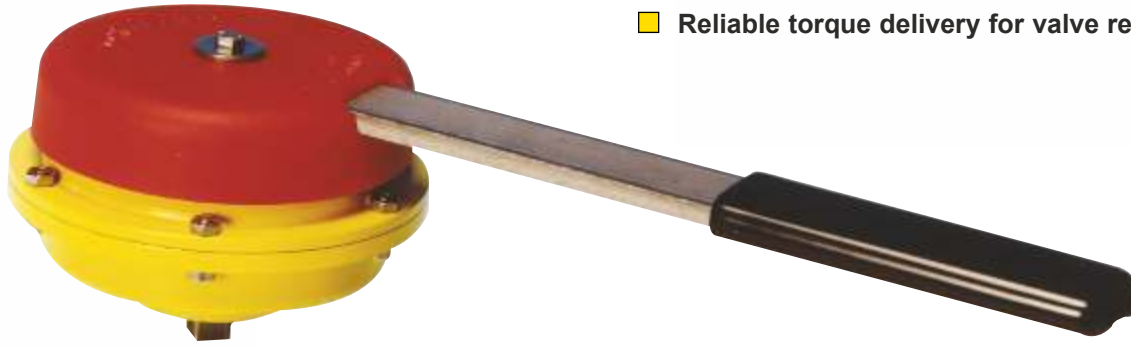


If you want to operate a valve manually, but maintain the advantage of the fail-safe spring's certainty of position when unattended, use this device.



- Manual unit, cannot be left in the wrong position
- Reliable torque delivery for valve reseal

- ISO5211 female drive & ATEX Category 2 approved options available for models 02, 03, 05 and 07
- Clockwise or counter clockwise 90° spring action
- Spring housing sealed to IP65 to protect from internal corrosion
- Bi-square (star) and serrated female drive options available

Application

Manual fail-safe spring units are available in Kinetrol sizes 02, 03, 05 and 07 with factory adjusted torques from 1.4Nm to 45.5Nm.

ISO/Female Drive Versions

The 03, 05 and 07 models are available with female drives for direct mount. The model 03 has F03/05 or F04 mounting flanges, the model 05 has F03/05/07 or F04 flanges and the model 07 has a F05/07 flange.

Specification

Spring Case	
02, 03, 05 & 07 ATEX	Die cast zinc alloy, epoxy paint finish
07 non-ATEX	Die cast aluminium alloy, epoxy paint finish
Shaft	Stainless steel or carbon steel zinc plated
Manual lever	03 & 05 - Stainless Steel 02 - Aluminium
Working Temperature range	-40°C to +80°C

To order female drive versions, replace the '0-' in the product code with '3F'. For example a model 05 ISO female drive manual fail-safe cw handle with F03/05/07 flanges is coded: 053F020-1006. The F04 flange version is coded 053F020-1006/F4.

Female drive versions with the same flange dimensions are available with ANSI threads eg 057F020-1006/F4.

Serrated female drive options can also be supplied for models 05 and 07. To order these replace the 'F' in the product code with an 'S'.

Female 02 versions are available by use of an ISO adaptor. Refer to page 26 for details.

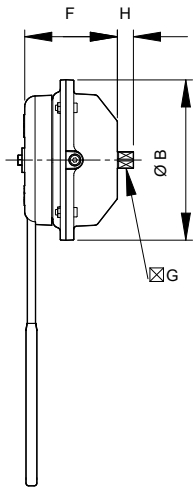
Ordering Codes

To order a manual fail-safe spring unit, quote model number, direction of spring (as per technical data on page 28) followed by product type code:

Type Codes: -1006 Manual spring unit (e.g. 054-020-1006)
 -1016 ATEX manual spring unit

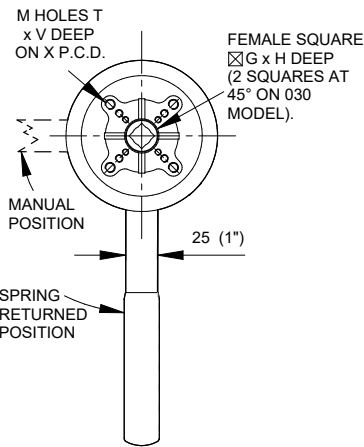
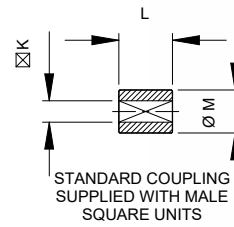
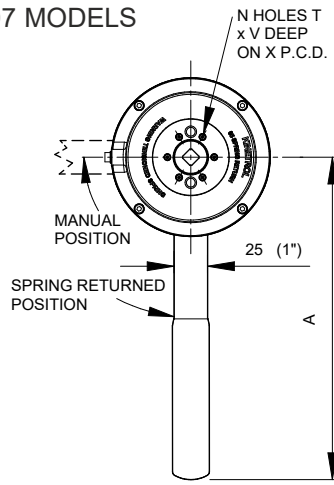
For reduced torque versions contact Kinetrol.





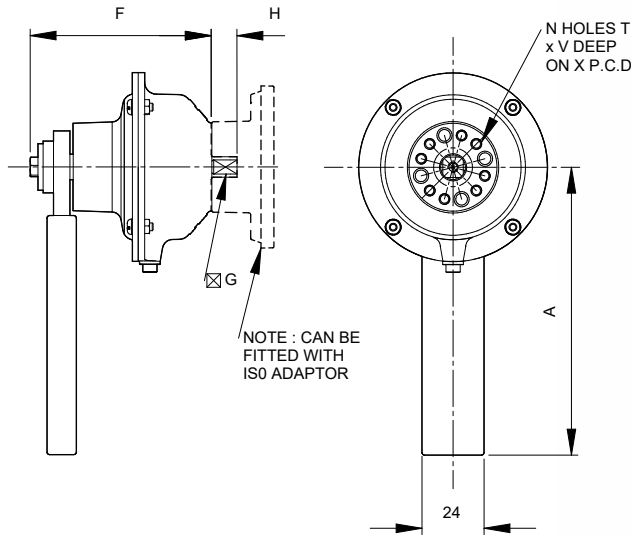
ISO MOUNT

03, 05 and 07 MODELS



ISO MOUNT

02 MODEL



Dimensions/Torques

Metric Units

	A	B	C	D	F	G	H †	K	L	M	N	T	V	X	Maximum Torque Nm	Torque Reduction Thro' Stroke Nm
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
024-020-1006	110	73	-	-	70	7.98 7.93	10.0	8.022 8.000	22.0	16.0	4	M4	8.0	25.5	5.1	1.0
034-020-1006	238	108	-	-	62	8.98 8.93	12.0	9.022 9.000	22.0	18.0	4	M5	10.0	31.1	14.0	3.0
054-020-1006	238	118	-	-	68.5	9.525 9.470	13.0	9.58 9.55	25.4	19.0	6	M5	8.0	34.9	24.0	3.5
074-020-1006	360	152	-	-	103	15.98 15.93	20.0	16.027 16.000	40.0	32.0	4	M8	15.0	50.8	45.5	5.8
033F020-1006	238	108	-	-	66	11.0	12.0	-	-	-	4	M5/M6	10/12	36/50	14.0	3.0
033F020-1006/F4	238	108	-	-	66	11.0	12.0	-	-	-	4	M5	10.0	42.0	14.0	3.0
053F020-1006	238	118	-	-	68.5	14.0	16.0	-	-	-	4	M5/M6/M8	10/12/13	36/50/70	24.0	3.5
053S020-1006	238	118	-	-	68.5	*	*	-	-	-	4	M5/M6/M8	10/12/13	36/50/70	24.0	3.5
053F020-1006/F4	238	118	-	-	68.5	14.0	16.0	-	-	-	4	M5	10.0	42.0	24.0	3.5
073F020-1006	360	152	-	-	103	17.0	22.0	-	-	-	4	M6/M8	14	50/70	45.5	5.8
073S020-1006	360	152	-	-	103	*	*	-	-	-	4	M6/M8	14	50/70	45.5	5.8

English Units

	A	B	C	D	F	G	H †	K	L	M	N	T	V	X	Maximum Torque lbf.ins	Torque Reduction Thro' Stroke lbf.ins
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch		
027-020-1006	4.33	2.87	-	-	2.76	0.314 0.312	0.39	0.316 0.315	0.86	0.63	4	8-32	0.310	1.00	45	8.00
037-020-1006	9.37	4.25	-	-	2.44	0.354 0.352	0.47	0.355 0.354	0.86	0.70	4	10-24	0.390	1.22	124	26.55
057-020-1006	9.37	4.64	-	-	2.70	0.375 0.373	0.51	0.377 0.376	1.00	0.75	6	10-24	0.310	1.37	212	31.00
077-020-1006	14.17	5.98	-	-	4.06	0.629 0.627	0.79	0.631 0.630	1.57	1.26	4	½-18	0.625	2.00	400	51.00
037F020-1006	9.37	4.25	-	-	2.60	0.43	0.47	-	-	-	4	10-24 / ¼	0.31/0.39	1.42/1.97	124	26.55
037F020-1006/F4	9.37	4.25	-	-	2.60	0.43	0.47	-	-	-	4	10-24	0.390	1.65	124	26.55
057F020-1006	9.37	4.64	-	-	2.70	0.55	0.63	-	-	-	4	10-24 / ¼ / ⅜	0.39/0.47/0.51	1.42/1.97/2.76	212	30.98
057S020-1006	9.37	4.64	-	-	2.70	*	*	-	-	-	4	10-24 / ¼ / ⅜	0.39/0.47/0.51	1.42/1.97/2.76	212	30.98
057F020-1006/F4	9.37	4.64	-	-	2.70	0.55	0.63	-	-	-	4	10-24	0.390	1.65	212	30.98
077F020-1006	14.17	5.98	-	-	4.06	0.669	0.75	-	-	-	4	¼ / ⅜	0.39/0.51	1.97/2.76	400	51.00
077S020-1006	14.17	5.98	-	-	4.06	*	*	-	-	-	4	¼ / ⅜	0.39/0.51	1.97/2.76	400	51.00

* Refer to TD141 for details on serrations and inserts

† Minimum

Weights – Metric

- 02 Models – 0.50 kg
- 03 Models – 1.87 kg
- 05 Models – 1.87 kg
- 07 Models (Non-ATEX) – 4.21 kg
- (ATEX) – 5.17 kg

Weights – English

- 02 Models – 1.102 lb
- 03 Models – 4.123 lb
- 05 Models – 4.123 lb
- 07 Models (Non-ATEX) – 9.281 lb
- (ATEX) – 11.374 lb



To open or close a valve or damper automatically in case of a fire this device allows the valve to operate using a fusible link mechanism designed to yield at a set temperature.



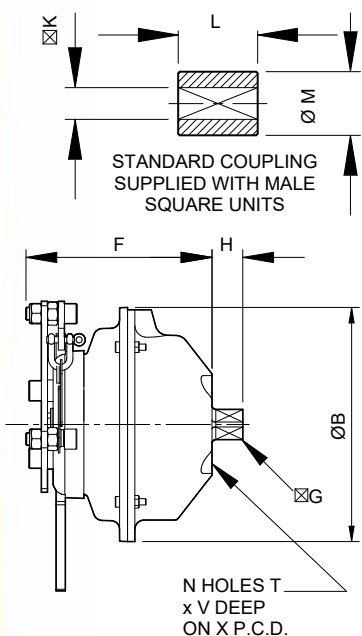
Yield Temperatures

Fire fail-safe fusible links
Solder type (UL approved)

Yield temperature options	74°C	100°C
Max. normal ambient temperature	38°C	66°C

ISO/Female Drive Options

All models are available with female drive options for direct mount - see page 60



Weights – Metric

- 05 Models – 2.70 kg
- 07 Models – 4.30 kg
- 09 Models – 9.20 kg
- 12 Models – 22.50 kg

Weights – English

- 05 Models – 5.95 lb
- 07 Models – 9.48 lb
- 09 Models – 20.28 lb
- 12 Models – 49.60 lb

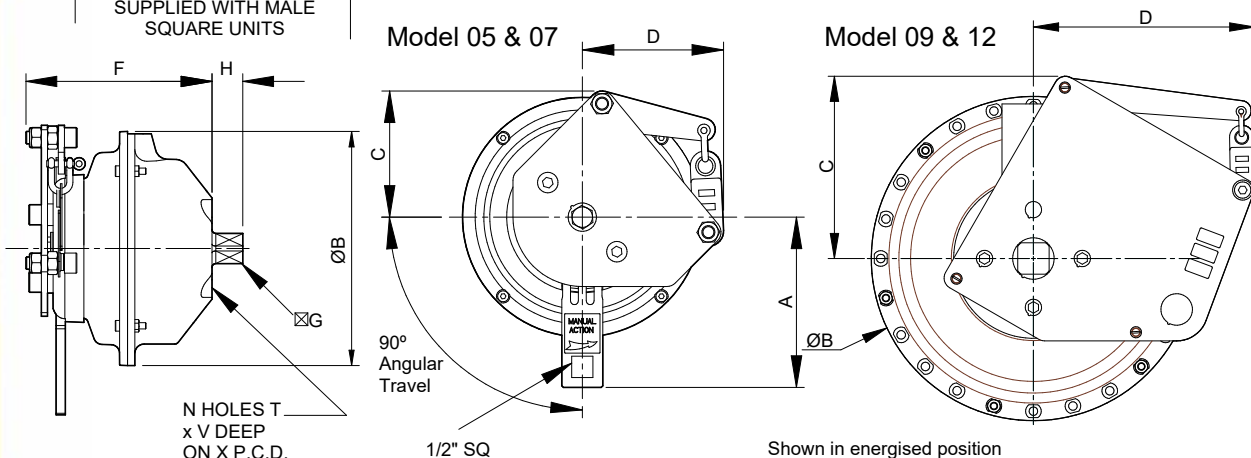
- Reliable torque delivery for valve reseal
- Available for Models 05, 07, 09 and 12 (maximum torque 226 Nm 2300 lbf ins)
- Two Yield Temperature Options
- Clockwise or counter clockwise 90° spring action
- ISO5211 female drive options available
- Spring housing sealed to IP65 to protect from internal corrosion
- ATEX Category 2 approved options available

Ordering Codes

To order a fire fail-safe spring unit, quote model number, direction of spring (as per coding guide on page 47) followed by product type code:

- 0074 Fire fail-safe spring unit 74°C
- 0100 Fire fail-safe spring unit 100°C
- 1074 ATEX fire fail-safe spring unit 74°C
- 1100 ATEX fire fail-safe spring unit 100°C (example: 054-020-0074)

For reduced torque versions contact Kinetrol



Metric Units

	A mm	B mm	C mm	D mm	F mm	G mm	H † mm	K mm	L mm	M mm	N	T	V mm	X mm	Maximum Torque Nm
054-020-0074	108	118	80	90	88	9.525 9.470	13.0	9.58 9.55	25.4	19.0	6	M5	13.0	34.9	24.0
074-020-0074	108	152	80	90	121	15.98 15.93	20.0	16.027 16.000	40.0	32.0	4	M8	15.0	50.8	45.5
094-020-0074	-	200	108	130	144	18.98 18.93	26.0	19.033 19.000	50.0	38.0	4	M10	20.0	65	95.0
124-020-0074	-	258	145	176	209	25.00 24.90	31.0	25.06 25.00	56.0	50.0	4	M12	24.0	77.8	205.0

English Units

	A inch	B inch	C inch	D inch	F inch	G inch	H † inch	K inch	L inch	M inch	N	T	V inch	X inch	Maximum Torque lbf.ins
057-020-0074	4.25	4.64	3.15	3.54	3.47	0.375 0.373	0.51	0.377 0.376	1.00	0.75	6	10-24	0.510	1.37	212
077-020-0074	4.25	5.98	3.15	3.54	4.76	0.629 0.627	0.79	0.631 0.630	1.57	1.26	4	5/16-18	0.625	2.00	400
097-020-0074	-	7.87	4.25	5.12	5.67	0.747 0.745	1.02	0.749 0.748	1.97	1.50	4	3/8	0.787	2.56	841
127-020-0074	-	10.16	5.71	6.93	8.23	0.984 0.980	1.22	0.986 0.984	2.20	1.97	4	1/2	0.944	3.06	1814

