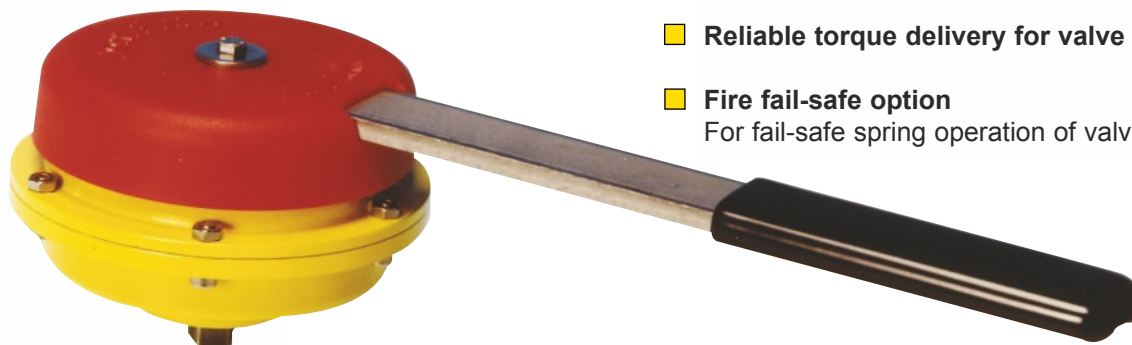


If you want to operate a valve manually, but maintain the advantage of the fail-safe spring's certainty of position when unattended, use this device.



- Manual unit cannot be left in the wrong position
- Reliable torque delivery for valve reseal
- Fire fail-safe option  
For fail-safe spring operation of valves in the event of a fire.

- 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.

Models 05, 09 and 12 fire fail-safe units (maximum torque to 260Nm/2300 lbf ins) are available - contact Kinetrol for details.

## Specification

Spring Case	Die cast zinc alloy with epoxy paint finish
Shaft	Stainless steel or carbon steel zinc plated
Lever	Stainless steel (03 & 05) Aluminium (02)

Optional fusible link	Soldered type (or equivalent) 2 options	
Yield temperature °C	72	93
Max normal ambient temperature °C	42	63

## 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.

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 6 for details.

## Ordering Codes

To order a manual fail-safe spring unit, quote model number, direction of spring (as per technical data on page 4) followed by product code.

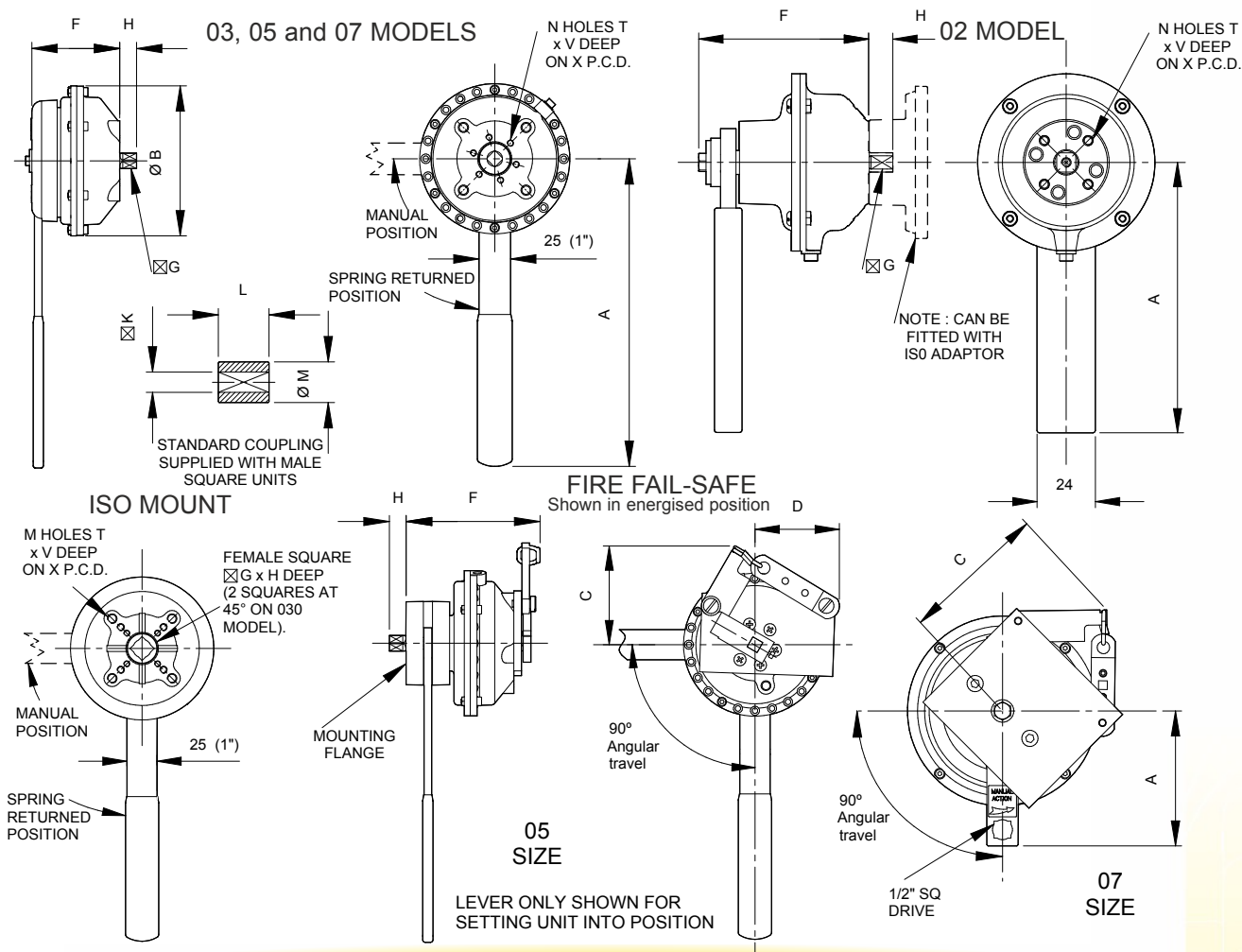
Type Codes: 1006 - spring unit  
1201 - single spring fire fail-safe unit (72°C link)  
1204 - single spring fire fail-safe unit (93°C link)

When ordering fire fail-safe units, please state maximum torque required (at or below maximum shown in table).

Example: for an 05 model, ISO threads, spring clockwise, 15Nm maximum torque, the code would be:  
054-020-1201 -15Nm

ATEX category 2 versions can be ordered by replacing "0" in code 1006 with "1" (i.e 1016)





## 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		
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	-	-	62	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	-	16.027 16.000	40.0	32.0	4	M8	15.0	50.8	45.5	5.8
054-020-1201	238	118	82	70	79	9.525 9.470	13.0	9.58 9.55	25.4	19.0	6	M5	13.0	34.9	24.0	3.5
074-020-1201	108	152	116	96	122	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	-	-	62	14.0	16.0	-	-	-	4	M5/M6/M8	10/12/13	36/50/70	24.0	3.5
053S020-1006	238	118	-	-	62	*	*	-	-	-	4	M5/M6/M8	10/12/13	36/50/70	24.0	3.5
053F020-1006/F4	238	118	-	-	62	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 lbs.ins	Torque Reduction Thro' Stroke lbs.ins
	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	-	-	2.44	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	5/16-18	0.625	2.00	400	51.00
057-020-1201	9.37	4.64	3.22	2.75	3.11	0.375 0.373	0.51	0.377 0.376	1.00	0.75	6	10-24	0.510	1.37	212	31.00
077-020-1201	14.17	5.98	4.60	3.80	4.80	0.629 0.627	0.79	0.631 0.630	1.57	1.26	6	5/16-18	0.625	2.00	400	51.00
037F020-1006	9.37	4.25	-	-	2.60	0.43	0.47	-	-	-	4	10-24 / 1/4	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	-	-	2.44	0.55	0.63	-	-	-	4	10-24 / 1/4 / 5/16	0.39/0.47/0.51	1.42/1.97/2.76	212	30.98
057S020-1006	9.37	4.64	-	-	2.44	*	*	-	-	-	4	10-24 / 1/4 / 5/16	0.39/0.47/0.51	1.42/1.97/2.76	212	30.98
057F020-1006/F4	9.37	4.64	-	-	2.44	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	1/4 / 5/16	0.39/0.51	1.97/2.76	400	51.00
077S020-1006	14.17	5.98	-	-	4.06	*	*	-	-	-	4	1/4 / 5/16	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 - 0.5 Kg  
03 Models - 1.87 Kg  
05 Models - 1.87 Kg  
07 Models - 5.17 Kg

### Weights - English

02 Models - 1.102 lb  
03 Models - 4.123 lb  
05 Models - 4.123 lb  
07 Models - 11.374 lb

