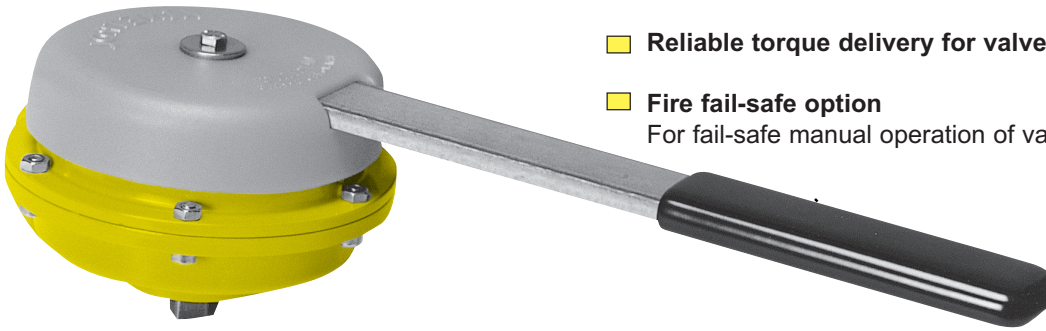


If you want to operate a valve manually, but maintain the advantage of the fail-safe spring's certainty of position when unattended, use this device.



- Manual unit cannot be left in the wrong position
- Reliable torque delivery for valve reset
- Fire fail-safe option
For fail-safe manual operation of valves etc.

- ISO5211 female drive & ATEX Category 2 approved options available for models 02, 03, 05 and 07.
- Clockwise or counter clockwise 90° spring action (02 reversible without the need for spring removal)
- Weatherproof sealed spring housing 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
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Yield temperature °C	72	93
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Max normal ambient temperature °C	42	63
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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 'O-' in the product code with '1F'. For example a model 05 ISO female drive manual fail-safe cw handle with F03/05/07 flanges is coded: 051F020-1006. The F04 flange version is coded 051F020-1006/F4.

Female drive versions with the same flange dimensions are available with ANSI threads eg 059F020-1006/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'.

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.

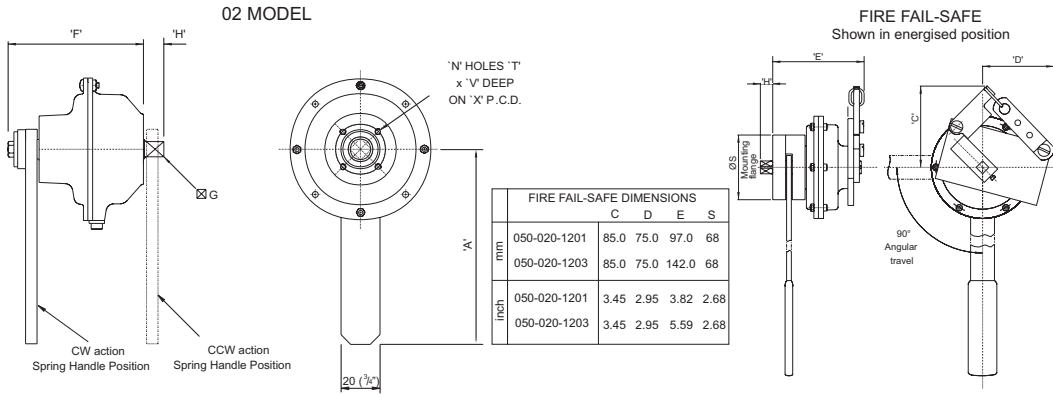
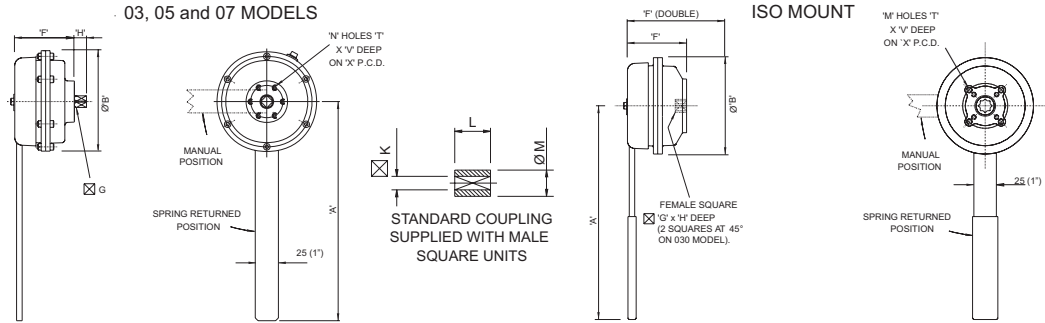
- Type Codes: 1006 - spring unit
- 1201 - single spring fire fail-safe unit (72°C link)
 - 1203 - double spring fire fail-safe unit (72°C link)
 - 1204 - single spring fire fail-safe unit (93°C link)
 - 1206 - double spring unit (93°C link)

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:
050-020-1201 -15Nm

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





Dimensions/Torques

Metric Units

	No Of Springs	A mm	B mm	F mm	G mm	H mm	K mm	L mm	M mm	N	T	V mm	X mm	Maximum Torque Nm	Torque Reduction Thro' Stroke Nm
020-020-1006	1	110.0	73.0	70.0	7.98 7.93	10.0	8.022 8.000	22.0	16.0	4	M4	8.0	25.5	5.1	1.0
030-020-1006	1	238.0	108.0	62.0	8.98 8.93	12.0	9.022 9.000	22.0	18.0	4	M5	10.0	31.1	14.0	3.0
050-020-1006	1	238.0	118.0	62.0	9.525 9.470	13.0	9.58 9.55	25.4	19.0	6	M5	8.0	34.9	24.0	3.5
070-020-1006	1	360.0	152.0	103.0	15.98 15.93	-	16.027 16.000	40.0	32.0	4	M8	15	50.8	45.5	5.8
050-020-1201	1	238.0	118.0	79.0	9.525 9.470	13.0	9.58 9.55	25.4	19.0	6	M5	13.0	34.9	24.0	3.5
050-020-1203	2	238.0	118.0	124.0	9.525 9.470	13.0	9.58 9.55	25.4	19.0	6	M5/M6	13.0	34.9	45.5	5.8
031F020-1006	1	238.0	108.0	66.0	11.0	12.0	-	-	-	4	M5/M6	10/12	36/50	14.0	3.0
031F020-1006/F4	1	238.0	108.0	66.0	11.0	12.0	-	-	-	4	M5	10.0	42.0	14.0	3.0
051F020-1006	1	238.0	118.0	62.0	14.0	16.0	-	-	-	4	M5/M6/M8	10/12/13	36/50/70	24.0	3.5
051S020-1006	1	238.0	118.0	62.0	*	*	-	-	-	4	M5/M6/M8	10/12/13	36/50/70	24.0	3.5
051F020-1006/F4	1	238.0	118.0	62.0	14.0	16.0	-	-	-	4	M5	10.0	42.0	24.0	3.5
071F020-1006	1	360.0	152.0	103.0	17.0	22.0	-	-	-	4	M6/M8	14	50/70	45.5	5.8
071S020-1006	1	360.0	152.0	103.0	*	*	-	-	-	4	M6/M8	14	50/70	45.5	5.8

English Units

	No Of Springs	A inch	B inch	F inch	G inch	H inch	K inch	L inch	M inch	N	T UNC	V inch	X inch	Maximum Torque lbs.ins	Torque Reduction Thro' Stroke lbs.ins
029-020-1006	1	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	1.0	45	8.00
039-020-1006	1	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
059-020-1006	1	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
079-020-1006	1	14.17	5.98	4.06	0.629 0.627	-	0.631 0.630	1.57	1.26	4	5/16-18	0.625	2.00	400	51.00
059-020-1201	1	9.37	4.64	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
059-020-1203	2	9.37	4.64	4.88	0.375 0.373	0.51	0.377 0.376	1.00	0.75	6	10-24	0.510	1.37	425	51.00
039F020-1006	1	9.37	4.25	2.60	0.43	0.47	-	-	-	4	10-24	0.31/0.39	1.42/1.97	124	26.55
039F020-1006/F4	1	9.37	4.25	2.60	0.43	0.47	-	-	-	4	10-24	0.390	1.65	124	26.55
059F020-1006	1	9.37	4.64	2.44	0.55	0.63	-	-	-	4	10-24	0.39/0.47/0.51	1.42/1.97/2.76	212	30.98
059S020-1006	1	9.37	4.64	2.44	*	*	-	-	-	4	10-24	0.39/0.47/0.51	1.42/1.97/2.76	212	30.98
059F020-1006/F4	1	9.37	4.64	2.44	0.55	0.63	-	-	-	4	10-24	0.390	1.65	212	30.98
079F020-1006	1	14.17	5.98	4.06	0.669	0.75	-	-	-	4	5/16-18	0.39/0.51	1.97/2.76	400	51.00

* Refer to TD141 for details on serrations and inserts

Weights in Metric

02 Models - 0.5 Kg
03 Models - 1.87 Kg
05 Models - 1.87 Kg
07 Models - 5.17 Kg

Weights in English

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