



SAFETY NUT “G”



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SAFETY NUT

HIGH PERFORMANCE IN TERMS OF SAFETY AND RESISTANCE INSIDE A SINGLE DEVICE

MecVel has created and developed a new safety nut able to operate both in push and pull, strictly linked to the push rod, dedicated to work in conditions of maximum wear or sudden breaking of the main nut.

The safety nut is designed to meet the needs of those applications requiring to linear actuators and screw jacks to keep the load safely even in wear conditions or in case of breaking of the main nut, preventing the opening/closing of the linear actuator or the screw jack, and consequently avoiding the load from falling.

MecVel experience and technical knowledge have led the company to manufacture, patent and launch into the marketplace a new safety nut, able to answer to this request, but not only.

Operating principle

This device, made of steel, is placed between the main nut and the push rod.

It is developed to act at the complete wear of the main nut, or in case of sudden collapse of the same, providing in both cases to keep the load safely instead of the main nut.

Moreover, when the safety nut intervenes, the whole system increases consistently its noise, providing one more useful feedback to the operator.

Advantages of MecVel safety nut compared to other devices

- It is screwed into the push rod, and not simply joined to the main nut, excluding the possibility to slipping out and to not providing any kind of protection
- Its spirals are linked to the main screw, but the internal thread has purposely a different step compared to the main screw: this means that, even in case of sudden breaking of the main nut, after a few movements under load, the bond between these two devices leads to the grip of the safety nut on the main screw, causing the complete locking of the system, avoiding the damage of other components and preserving the whole application
- It is able to work in both directions (push and pull) and it is particularly suitable in case of hanging loads, in addition to loads in compression or traction

A quick and easy solution to equip the product with this additional protection, intended to preserve the whole system, will be to request the option "G" when configuring the linear actuator or the screw jack.

MecVel safety nut is not combinable with ball screw (VRS), but it is available for any other model of linear actuator or screw jack, with no regards in terms of size, as it is suitable to any dimension and pitch of the screw.

