



Product Datasheet

GEIGER Worm gear 419F55. with integrated double-sided overload protection system

Product description

The worm gear 419F55, with integrated, double-sided overload protection system on the drive-side protects the whole device.

Our new worm gear 419F55, is safe, flexible and durable. Its integrated (double-sided) overload clutch enables safe operation, the small dimensions of the housing offer a versatile installation and the components made out of high-strength plastic guarantee an extremely long and trouble free use.

The gear 419F55, is suitable for left- and right-hand installation. The overload clutch allows optimized protection of the whole system: A faulty winding of the curtain in the lower position is excluded and a smooth stop of the crank motion in the upper end position is guaranteed. The lower limit stop is factory preset so that the installation and commissioning can be carried out quickly and safely. Further adjustments are not necessary.

With a reduction of 5,7:1 either with or without end stop (19 rotations), rolling shutters can be easily operated up to 16 kg. The gear is available with two different drive profiles (7 mm hexagonal and 6 mm square). The spline profile can be used with an adapter for octagonal shafts of 40/60 mm and ZF54/64 mm.

Our new gear with its large range of accessories can be used for a multiplicity of applications and offers highest quality standards – of course MADE BY GEIGER.

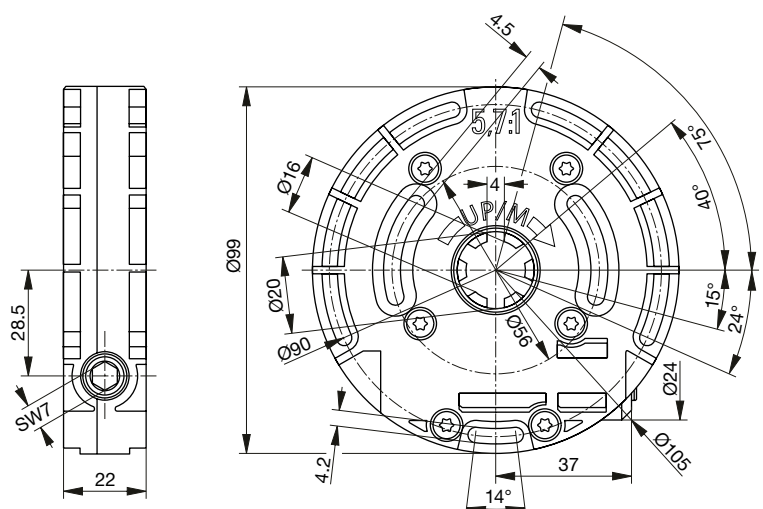


Tube drive

Item No.	Drive	Roller tube
419F903	Spline profile	octagonal 40 mm
419F904	Spline profile	octagonal 60 mm
419F912	Spline profile	54 mm ZF
419F920	Spline profile	64 mm ZF

Technical features

	419F55.
Reduction	5,7:1
Torque	8 Nm
Efficiency	0,33
Release torque UP	6-8 Nm
Release torque DOWN	2-2,5 Nm
Limit stop	with/without end stop
Drive	7 mm 6-kt. 6 mm 4-kt.
Output	spline profile 8 mm square 10 mm square





The energy saver

The new GEIGER universals 90° and 45° are available with a slender base plate 22 x 85 mm.

The scratch- and abrasion-resistant powder coating is applied in ultra thin layers. Various colours are available.

In the aluminium version the joints have small plastic pieces. The industrial ball bearing is equipped with rubber pieces on both sides which contribute to air tightness and provide a smooth and accurate running.

A special cellular rubber seal reduces the air circulation between the wall and the universal. This system reduces the thermal decoupling on the drive rod.

Large selection of universals



Air sealed universals

The renewed reinforcement of the German Energy Saving Order (EnEV) 2009/2012 and the French Standard RT 2012 increase the requirements on a tight building envelope. The legislation sets new standards - up to 30% over the previously valid values - in both new construction and modernization projects.

In this context, GEIGER introduces a new generation of **air-sealed universals** which contribute to follow the demand after energy-saving buildings. Through the use of a specific cellular rubber seal, also on uneven surfaces, the air circulation between interior and shutter box is excluded.

The energy loss through the opening in the building is virtually eliminated.

Advantages for the user:

- Reduced heating costs
- Even room temperature without drafts
- Greatly reduced condensation in the wall implementation and in the rolling shutter box – no risk of damage from moisture penetration of walls etc.
- Considerably extended gear life

The effectiveness of the air sealed universals has been confirmed within the project „air-tightness of rolling shutter boxes“ in Rosenheim. The company Gerhard Geiger GmbH & Co. KG is project partner.

The research results will be included in the revision of the standard DIN 4108-2.

A new generation of GEIGER products: the air-sealed universals are a high-quality product which increase the operator convenience and help make your home more energy efficient. Building Experts and Energy Consultants attach particular importance to the use of this new product generation.