

MAV Two-Piece Shrink Discs



A Full Line of Connections That Install Easily and Boost Performance From the Industry Leader

Shrink discs are the preferred alternative to conventional shrink/press fits, tapered bushings, or keyways, providing a high-capacity, zero-backlash, shaft-to-hub connection.

They are installed externally on a hollow shaft or hub to connect it to a shaft – for example, in a hollow-shaft gearbox.

MAV Shrink Disc Advantages

- Install Easily
- Outperform Alternatives
- Quality You Can Trust

“Easy-Lock” Installation

Like other Fenner Drives keyless locking devices, our MAV shrink discs rely on a simple wedge principle.

As you tighten the screws, the tapered surfaces of the circular steel thrust rings engage, creating a force that squeezes the hub/hollow shaft onto the shaft. And, because there's no keyway, our shrink discs are easy to remove and reinstall as needed.

Just set, tighten, and walk away. There's even a two-piece design for larger applications.

Two-Piece Shrink Discs for Applications as Large as 620 mm

The larger the disc, the harder it is to install. And, as a three-piece shrink disc is tightened, the two outer rings sometimes get out of alignment, causing run-out error or off-center rotation. Our two-piece, single-taper shrink disc was developed to offer an easy-to-install solution as an alternative to the traditional three-piece design.

It can handle applications as large as 620 mm (and special order larger sizes, if needed), where it is of particular importance to minimize the run-out error. The two-piece design is widely used in the wind turbine industry and in hydroelectric plants for the main shaft-to-gearbox connection, as well as in a wide range of general drive applications.

It has a single inner ring with two tapered surfaces that guide the outer ring into place as it is tightened, aligning the two rings, and ensuring concentricity. The disc thus establishes a well-balanced, mechanical interference fit with:

- No keyways to cut.
- No axial movement during installation.

All of which make our two-piece shrink disc easier to install, cutting installation time and reducing installation errors.

Even though it has only a single outer ring, the two-piece shrink disc has the same dimensions and performance as standard-, heavy-, and light-duty three-piece shrink discs. It is also available with 12.9-class screws, increasing torque capacity by 20%.

Note: Tightening of two-piece shrink discs requires a calibrated torque wrench. Performance is based on tightening torque according to the catalog requirements. In tightened condition, the front faces of inner and outer ring are approximately flush. However, this is not to be considered proof that the tightening procedure has been completed properly.



MAV Two-Piece Shrink Discs



Configurations

- 3009 Standard 12.9 Hex
- 3209 Heavy Duty 12.9 Hex
- 3008 Standard 10.9 Hex
- 3108 Light Duty 10.9 Hex
- 3208 Heavy Duty 10.9 Hex

Sizes

- Up to 620 mm (larger sizes available for special requests)

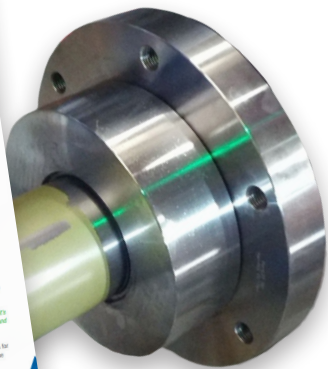
Performance

- Torque: Same as the three-piece design, with less installation time and errors.
- Load characteristics: Can accommodate high torque, thrust, bending, and/or radial loads

Corresponding Part Numbers

- Stüwe HSD
- TAS Schäfer 31xx
- Ringfeder RfN 41xx
- Ringspann RLK 606-608
- KTR 620
- Tollok 622(681)-623(683)
- Compomac SA(L)-SB(L)
- Hakon 222

Fenner Drives manufactures both three-piece and two-piece MAV shrink discs in standard-, light-, and heavy-duty configurations.



See how a global manufacturer used shrink discs from Fenner Drives to convert a large pre-shredder to electrical power.

[VIEW CASE STUDY HERE.](#)



Contact our team today!

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* MAV is known worldwide for its ability to customize large shrink discs and keyless locking devices. MAV-branded products are not available in the U.S.



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