



Damping rings DT and DTV

The damping ring DT serves for structure-borne noise separation between the drive units (motor-bellhousing-pump) and tank cover or base plate, respectively.

Table of contents

| | | |
|----------|---|----------|
| 1 | Technical data | 2 |
| 2 | Advice | 3 |
| | 2.1 General advice | 3 |
| | 2.2 Safety and advice symbols | 3 |
| | 2.3 General hazard warnings | 3 |
| | 2.4 Intended use | 3 |
| 3 | Storage | 4 |
| 4 | Assembly | 4 |
| | 4.1 Assembly of the damping ring DT with tank or base plate | 4 |
| | 4.2 Assembly of damping ring with bellhousing | 5 |
| | 4.3 Other information | 5 |
| 5 | Disposal | 5 |
| 6 | Spares inventory, customer service addresses | 5 |



1 Technical data

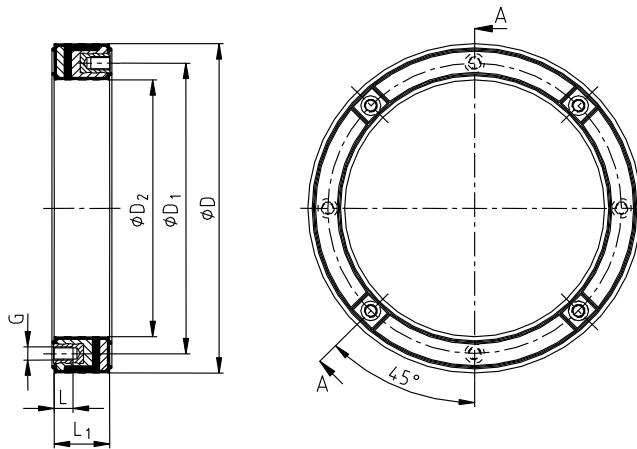


Illustration 1: Damping ring DT

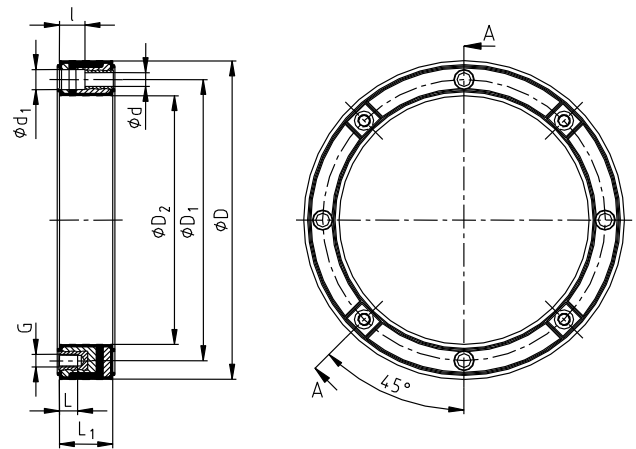


Illustration 2: Damping ring DT.../2
(not suitable for lateral installation of tank)

Table 1: Dimensions

| IEC motor size | Damping ring size | Dimensions [mm] | | | | | | | | | T _A [Nm] |
|----------------|-------------------|-----------------|----------------|----------------|---------|------|----------------|--------|---------------------|----|---------------------|
| | | D | D ₁ | D ₂ | z x G | L | L ₁ | z x Ød | z x Ød ₁ | l | |
| 71 | DTV 160 | 160 | 130 | 111.0 | 4 x M8 | 16.5 | 35 | 4 x 9 | 4 x 14.5 | 18 | 12 |
| 80 | DT 200 | 200 | 165 | 145.2 | 4 x M10 | 20.0 | 40 | 4 x 11 | 4 x 17.5 | 20 | 23 |
| 90 S | | | | | | | | | | | |
| 90 L | DT 250 | 250 | 215 | 191 | 4 x M12 | 17.5 | 45 | 4 x 13 | 4 x 19.5 | 22 | 40 |
| 100 L | | | | | | | | | | | |
| 112 M | DT 300 | 300 | 265 | 235 | 4 x M12 | 17.5 | 50 | 4 x 13 | 4 x 19 | 24 | 40 |
| 132 S | | | | | | | | | | | |
| 132 M | DT 350 | 350 | 300 | 261 | 4 x M16 | 31.0 | 60 | 4 x 17 | 4 x 25 | 26 | 100 |
| 160 M | | | | | | | | | | | |
| 160 L | DT 400 | 400 | 350 | 301 | 4 x M16 | 31.0 | 70 | 4 x 17 | 4 x 25 | 31 | 100 |
| 180 M | | | | | | | | | | | |
| 180 L | DT 450 | 450 | 400 | 351 | 8 x M16 | 31.0 | 80 | 8 x 17 | 8 x 25 | 41 | 100 |
| 200 L | | | | | | | | | | | |
| 225 S | DT 550 DTV 550 | 550 | 500 | 451 | 8 x M16 | 30.0 | 68 | 8 x 17 | 8 x 25 | 23 | 210 |
| 225 M | | | | | | | | | | | |
| 250 M | DT 660 DTV 660 | 660 | 600 | 551 | 8 x M20 | 30.0 | 68 | 8 x 22 | 8 x 33 | 23 | 410 |
| 280 S | | | | | | | | | | | |
| 280 M | DTV 800 | 800 | 740 | 683 | 8 x M20 | 25.0 | 71 | - | - | - | 410 |
| 315 S | | | | | | | | | | | |
| 315 M | | | | | | | | | | | |
| 355 | | | | | | | | | | | |



2 Advice

2.1 General advice

Please read through these operating/assembly instructions carefully before you start up the damping ring. Please pay special attention to the safety instructions!
The operating/assembly instructions are part of your product. Please store them carefully and close to the damping ring. The copyright for these operating/assembly instructions remains with KTR.

2.2 Safety and advice symbols



Warning of personal injury

This symbol indicates notes which may contribute to preventing bodily injuries or serious bodily injuries that may result in death.



Warning of product damages

This symbol indicates notes which may contribute to preventing material or machine damage.



General advice

This symbol indicates notes which may contribute to preventing adverse results or conditions.

2.3 General hazard warnings



With assembly and maintenance of the damping ring it has to be made sure that the entire drive train is secured against accidental switch-on and the plant is unpressurized. Improper treatment of the damping ring and rotating parts may cause serious injuries. Please make absolutely sure to read through and observe the following safety indications.

- All operations on and with the damping ring have to be performed taking into account "safety first".
- Secure the power pack against accidental switch-on, e. g. by providing warning signs at the place of switch-on or remove the safety device for current supply.
- Do not reach into the operation area of the machine as long as it is in operation.
- Please secure the rotating drive components against accidental contact. Please provide for the necessary protection devices and covers.

2.4 Intended use

You may only assemble and maintain the damping ring if you

- have carefully read through the operating/assembly instructions and understood them
- had technical training
- are authorized by your company

The damping ring may only be used in accordance with the technical data (see chapter 1). Unauthorized structural modifications on the damping ring are not admissible. We will not assume liability for any damage that may arise. In the interest of further development we reserve the right for technical modifications.

The **damping ring** described in here corresponds to the technical status at the time of printing of these operating/assembly instructions.



3 Storage

The features of the damping rings remain unchanged for up to 5 years with favourable storage conditions.



**The damping rings have to be protected against solar radiation or UV radiation.
The temperature of the bearing should not exceed + 30 °C.**

4 Assembly

The damping ring is generally supplied ready for assembly.

4.1 Assembly of the damping ring DT with tank or base plate

Damping ring DT (see illustration 1)

- The damping ring DT is fitted on the hole in the tank or base plate, respectively.
- Push the screws through the tank or base plate and screw to the threads in the damping ring DT (see illustration 3).
- The screw lengths must be selected such that the complete length of the thread in the damping ring DT is used, if possible. For tightening torques T_A see table 1.

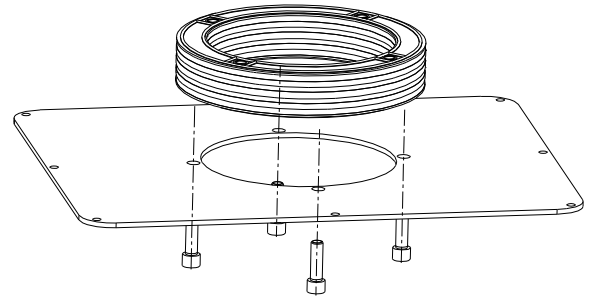


Illustration 3: Assembly of damping ring DT



Secure the screw connection additionally against working loose, e. g. conglutinating with Loctite (average strength).

Damping ring DT.../2 (see illustration 2)

- The damping ring DT.../2 is fitted on the hole in the tank or base plate, respectively.
- Push the screws through the counterbores in the damping ring and screw to the threads in the tank or base plate (see illustration 4).
- The screw lengths must be selected such that the complete length of the thread in the tank or base plate is used, if possible. For tightening torques T_A see table 1.

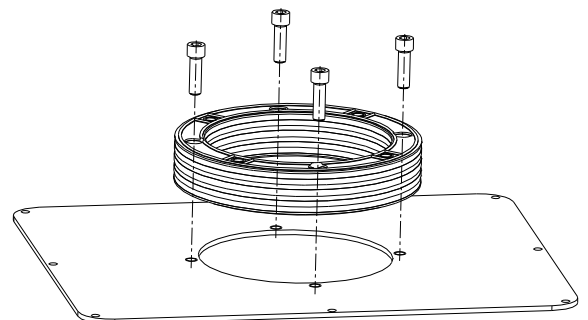


Illustration 4: Assembly of damping ring DT.../2



Secure the screw connection additionally against working loose, e. g. conglutinating with Loctite (average strength).



The damping ring DT.../2 is not suitable for lateral installation of tank, since sealing is not assured.



4 Assembly

4.2 Assembly of damping ring with bellhousing

- The bellhousing is pushed through the damping ring DT up to the contact surface.
- Push the screws through the bores in the collar of the bellhousing and screw to the threads in the damping ring DT (see illustration 5).
- The screw lengths must be selected such that the complete length of the thread in the damping ring DT is used, if possible. For tightening torques T_A see table 1.

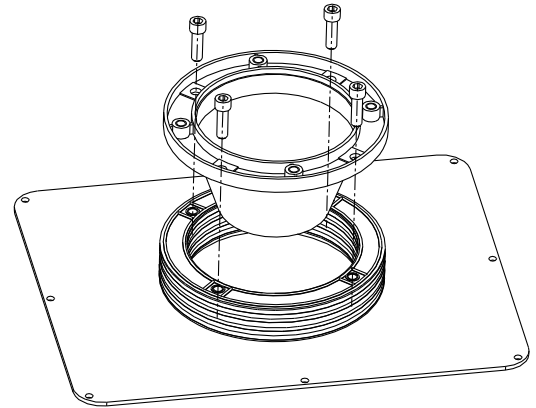


Illustration 5: Assembly of damping ring DT with bellhousing



Secure the screw connection additionally against working loose, e. g. conglutinating with Loctite (average strength).

4.3 Other information

- The damping ring DT can be used both horizontally and vertically.
- The damping ring DTV is intended for vertical use only.
- Sealing lips are moulded on the damping ring DT so that additional gaskets between bellhousing and tank can be done without. The sealing lips must be inspected for potential damages before assembly.

Please observe the following KTR operating/assembly instructions:

- Bellhousing Operating/Assembly instructions → KTR-N 41010

5 Disposal

In respect of environmental protection we would ask you to dispose of the packaging or products on termination of their service life in accordance with the legal regulations and standards that apply, respectively.

6 Spares inventory, customer service addresses

A basic requirement to ensure the operational readiness of the damping ring is a stock of the most important spare parts on site.

Contact addresses of the KTR partners for spare parts and orders can be obtained from the KTR homepage at www.ktr.com.



KTR does not assume any liability or warranty for the use of spare parts and accessories which are not provided by KTR and for the damages which may incur as a result.

| | | | | |
|---|-----------|------------------|--------------|------------------------|
| Please observe protection note ISO 16016. | Drawn: | 2018-10-05 Pz/Wy | Replacing: | KTR-N dated 2018-06-26 |
| | Verified: | 2018-10-05 Pz | Replaced by: | |