

The type of bearings to be used is determined by the construction, the speed, the output and any additional loads of the motor. Depending on these parameters or the customer's specification, antifriction or sleeve bearings are provided.

Anti-friction bearings

Our motors in basic design are fitted with Series 2 or 3 antifriction bearings. IM B3 motors in basic design are provided at the D-end with a grooved ball bearing (locating) and the N-end with a pre-loaded grooved ball bearing (non locating).

For particularly high radial loads, all motors can in addition be provided with cylindrical roller bearing at the D-end.

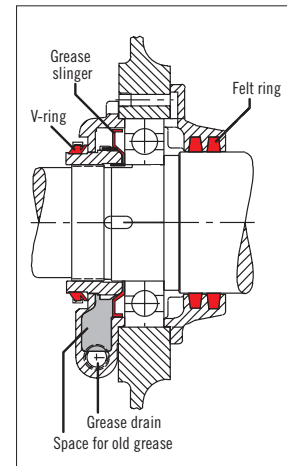
As shaft seals, felt rings are provided on the motor side of the bearing and V rings on the outside.

Shaft seals are maintenance free and provide protection against dirt and spray water in accordance with degree of protection IP 55.

Lubricators and grease slingers ensure proper lubrication of the bearings. The outer bearing covers are provided with a space for old grease and a grease drain.



Antifriction bearing with lubricator and grease drain



Antifriction bearing arrangement



Sleeve bearing with ring oiler

Sleeve bearings

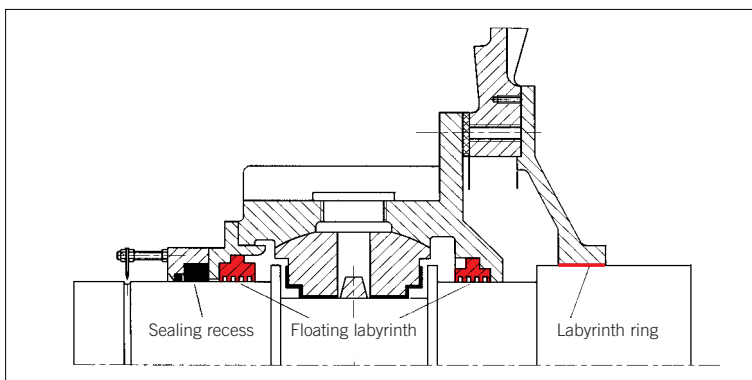
On request, all motors can be fitted with sleeve bearings. All sleeve bearings are of the split, flanged type.

Depending on the bearing load in service, bearing with loose ring oilers (self lubrication) or with force-feed lubrication are used. Subsequent conversion from self to force-feed lubrication is possible.

Sleeve bearings are non-locating. Shaft end float is ± 3 mm. On request, a locating bearing can be provided at the D-end.

On the bearing inside, a floating labyrinth seal and a labyrinth ring is used. The shaft seal on the bearing outside consists of a floating labyrinth and an additional seal - reliable protection both against the ingress of foreign matter and the loss of oil.

Shaft seals are maintenance-free. They protect the bearings against the ingress of dust and spray water, to degree of protection IP55.



Shaft seals for sleeve bearings