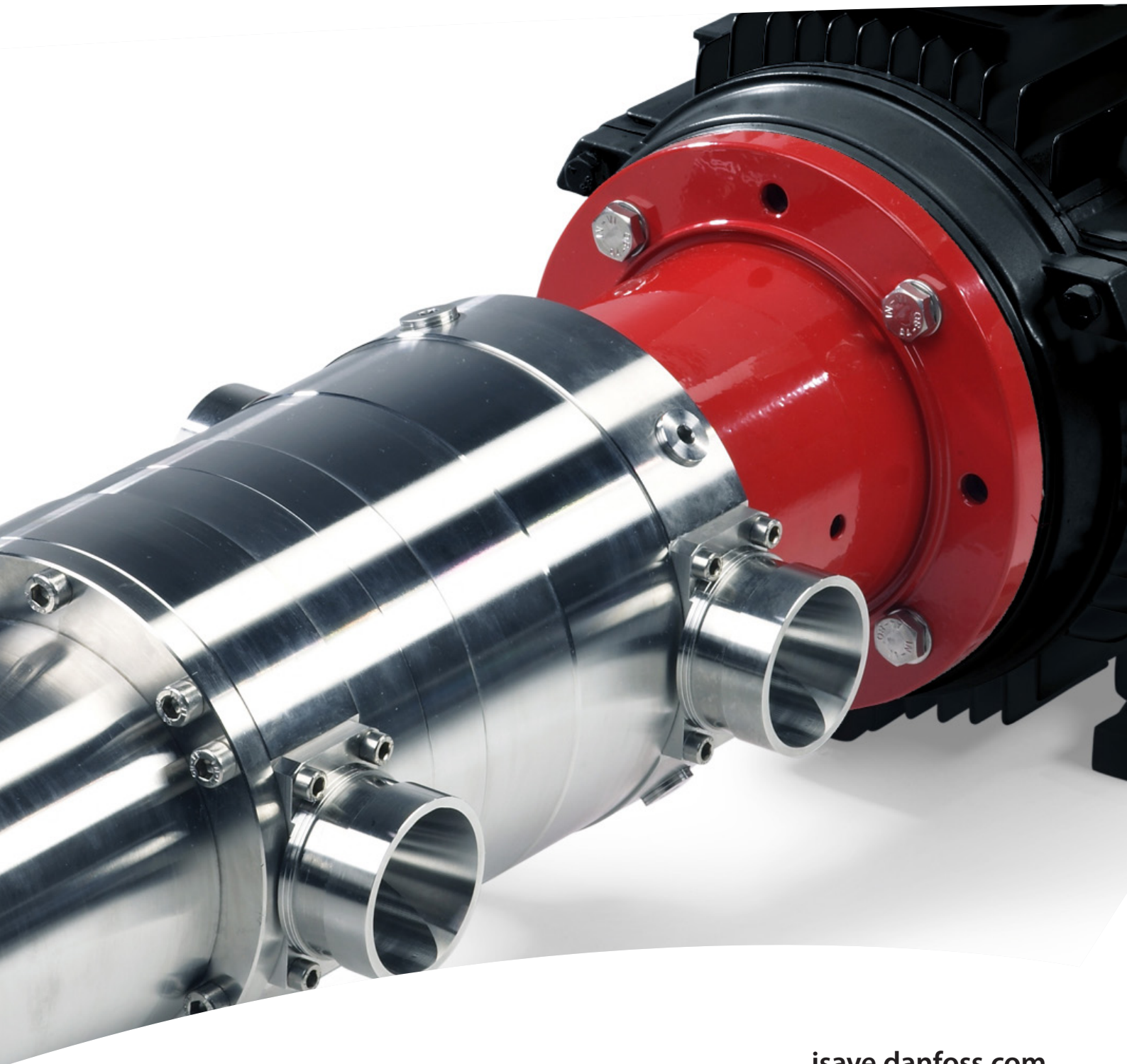
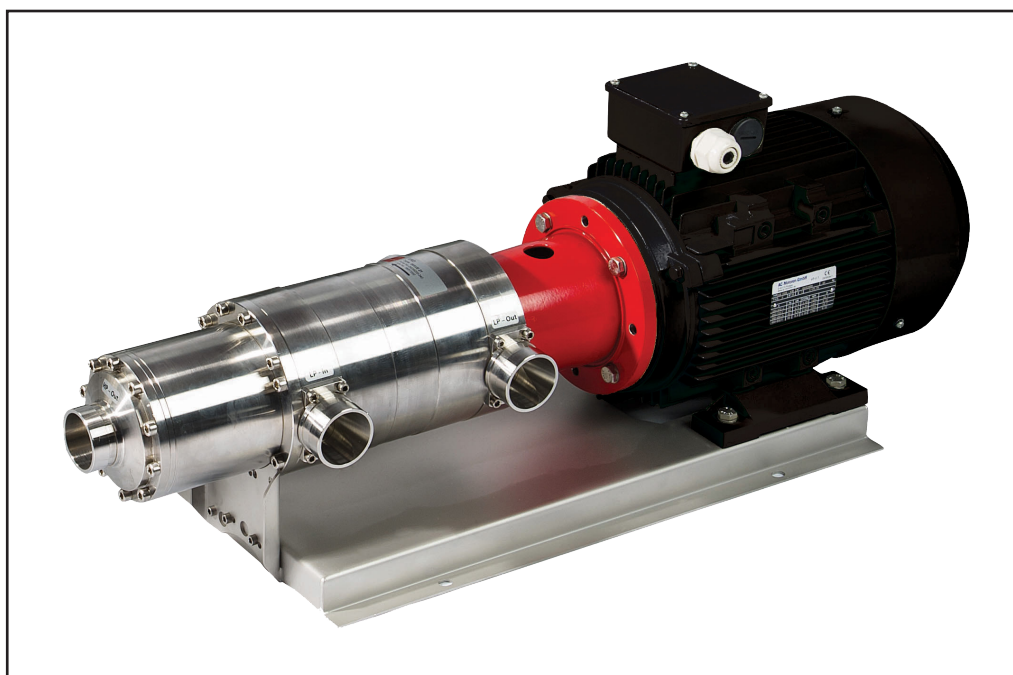


Instruction

Installation and alignment of the iSave unit



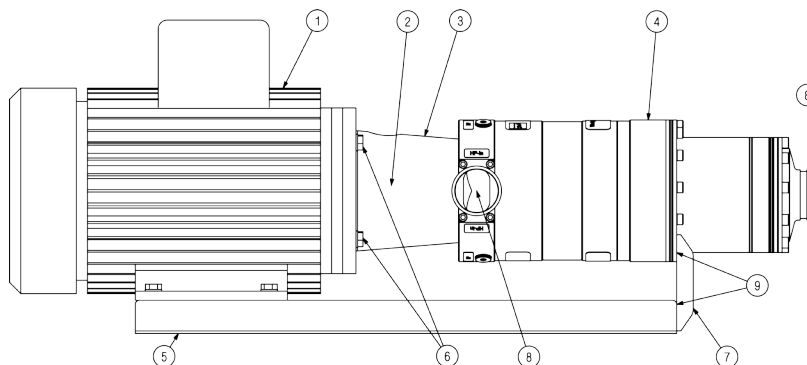


Below procedures are guidelines for the installation and alignment of the Danfoss iSave

Figure below identifies the major isave components.

Fig. 1

- 1: Motor
- 2: Flexible coupling
- 3: Bell housing
- 4: iSave
- 5: Baseplate (AISI316)
- 6: Bolts
- 7: Support bracket (AISI316)
- 8: Port connection
- 9: Bolts



The iSave is connected to the electric motor by the bell housing. The bell housing **is not suitable** to carry the weight of either the iSave or the motor. Both the iSave and motor must be supported without applying stress/load to the bell housing.

Danfoss supplies the iSave together with a baseplate and support brackets. Although the baseplate is of sturdy design, it can flex or bend when it is bolted to the foundation. Therefore the baseplate requires a solid foundation such as concrete or rigid steel frame. The baseplate itself must be aligned to avoid bending caused by bolting to an uneven foundation.

A rigid foundation for the iSave assembly is important and the iSave assembly must be bolted to the foundation. The bolts used must be of proper design and must be installed in accordance with the bolt manufacturer's recommendations.

To reduce noise it is recommended to use resilient mounts between the baseplate and the foundation. Make sure that the bolts are properly locked and will stay locked over time.



An unlocked bolt can result in personal injury and/or damage to the iSave.



Misalignment of the baseplate may cause stress to the bell housing and damage the bell housing.

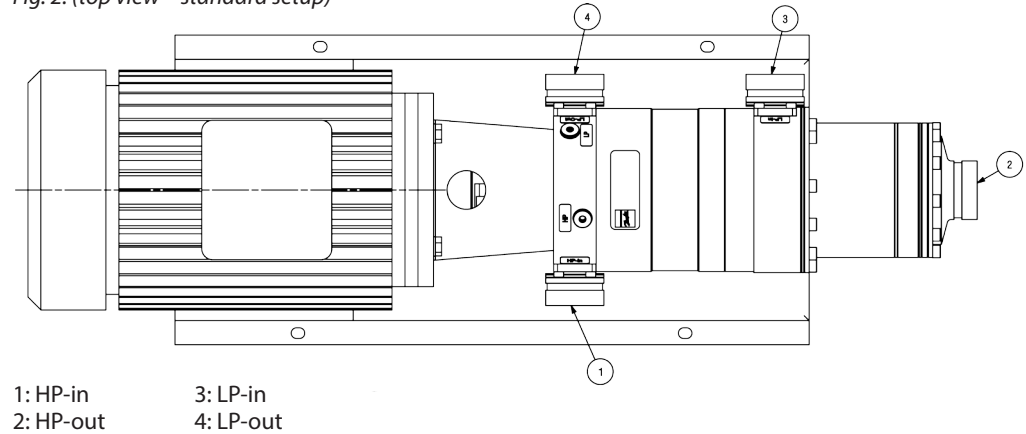
Orientation

The iSave can be mounted horizontally and vertically.

When mounted vertically, the electric motor must be placed above the iSave.

The port connections on the iSave can be orientated in two different ways. The **standard setup** delivered from Danfoss is shown in the fig. 2 below.

Fig. 2: (top view – standard setup)

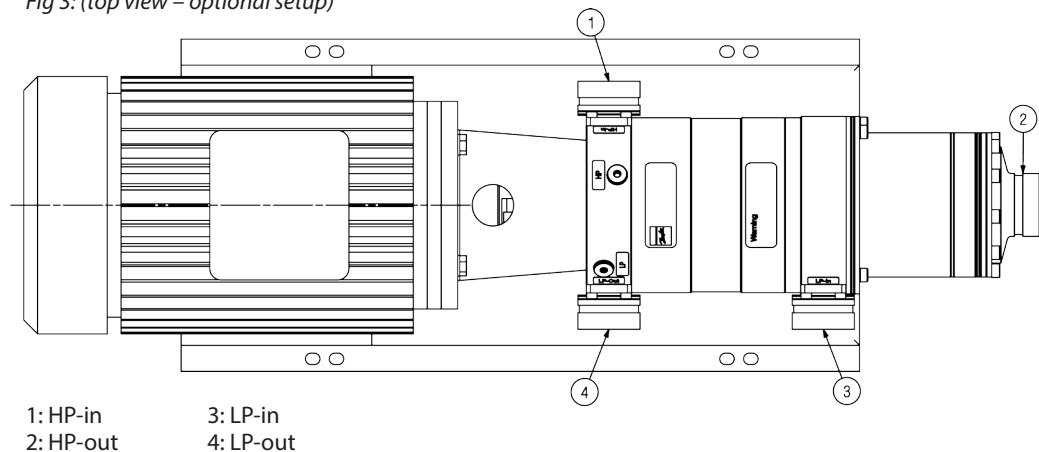


The port connections on the iSave can be orientated differently. See fig. 3.

This can be done by:

1. Disassemble the 4 bolts (9, figure 1) in the bell housing at the electric motor
2. Disassemble the 4 bolts (10, figure 1) in the support bracket.
3. Rotate the iSave 180 deg.
4. Check that the coupling inside the bell housing is mounted correctly. See "Mounting of coupling" page 3.
5. Assemble the 4 bolts in the bell housing and tighten them to 30 Nm (22 lbf-ft)
6. Assemble the support bracket (7, figure 1) by the 4 bolts (10, figure 1). Tighten them to 12 Nm (8,5 lbf-ft).

Fig 3: (top view – optional setup)

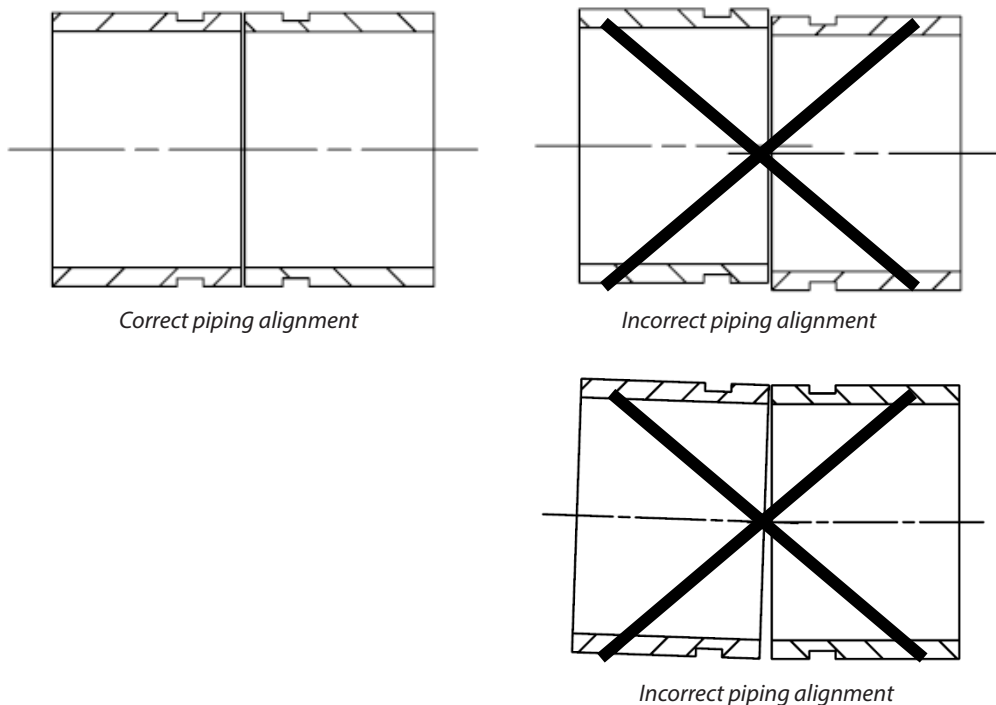


Instruction

Installation and alignment of the iSave unit

Piping alignment

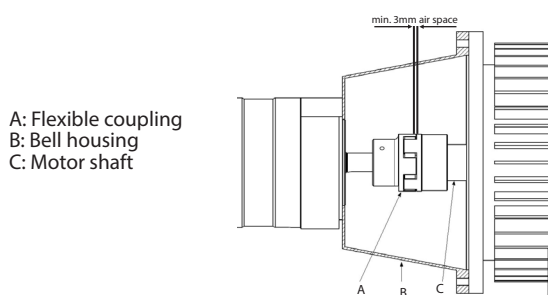
Hard piping to the iSave must be properly aligned to avoid stress on the iSave port connections. Pipe connections must be aligned as shown in figures below. Don't use the iSave as strain for hard piping.



Misalignment of the hard pipes may cause stress to the iSave port connection and may damage the iSave.

Mounting of coupling

The figure below illustrates how to mount the iSave and connect it to the electric motor.



If alternative mounting is required, please contact Danfoss RO Solutions' sales organization for further information.

To ensure easy mounting of the flexible coupling without using tools, the tolerances must be dimensioned accordingly.

Note: Any axial and radial load on the shaft must be avoided.