

	General Installation and Operating	Ind. D	06.09.2017
	Instructions Permanent Mooring Solution	www.dualdoker.com	

1.) Introduction:

DualDocker Systems are 100% energy-self-sufficient. No hydraulics, no oil, no gas, no electricity used. The damping units operate 100% mechanically.

These Installation Instructions are only valid for DualDocker Systems with permanent connection

(permanent mooring)

The project related installation plan as well as the installation instructions issued by the manufacturer must strictly be followed.

The instructions for correct alignment and set-up of arms and diagonal lines must strictly be followed.

The installation must be carried out or supervised by authorised specialists.

2.) DualDocker and Icing (operation in freezing conditions)

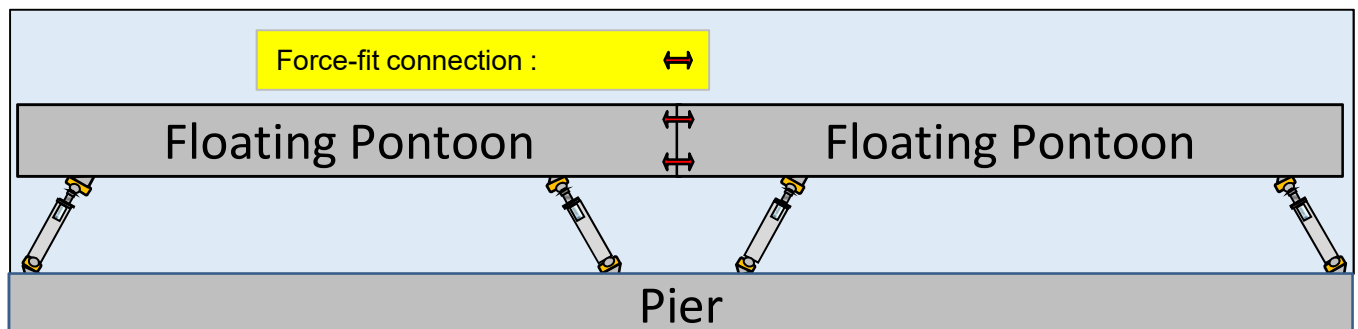
The operation of DualDocker in icy conditions is critical.

When fixing point is a floating pontoon, it is usually less critical.

The manufacturer or an authorised DualDocker distribution partner has to be consulted before any planned installation in ice-prone areas.

- If ice formation is likely, install the DualDocker System either completely above or completely below the water level.
- If there is a danger of moving sheets of ice, the floating structure and the DualDocker Systems must be taken out of the water without delay.
- Please also consider and follow the DualDocker Securing Instructions.

3.) Installation of DualDocker Arms:



Note: Prevent the DualDocker System from damage. The surface is anodised which prevents corrosion. Secondary / consequential damage (based on surface damage) is not damaged by product warranty !

Arms must be installed without pretension.

Distances between pier and floating pontoon must be the same at all installation points.

Max. tolerance ± 2 cm ! Use spacer plates if necessary.

Avoid collisions (arms and pontoon, arms and pier) at different water levels.

Max. motion range of ball connectors: Model 2T: 45° , Model 5T: 35° , Models 10T and 15T: 28°

Max. motion range of universal joint connectors: All Models: 60°

Make sure every part of the installation can handle the max. tolerated forces

4.) Installation of DualDocker Adapter:

Installation according to individual project plan
 Make sure the quay/pier and the floating structure can permanently handle the max. tolerated forces

Make sure the adapters are fitted tightly without play.

Fixing bolts are not part of the consignment.

Use conical washers for a tight fit of bolts (see picture)

Tighten bolts with correct torque

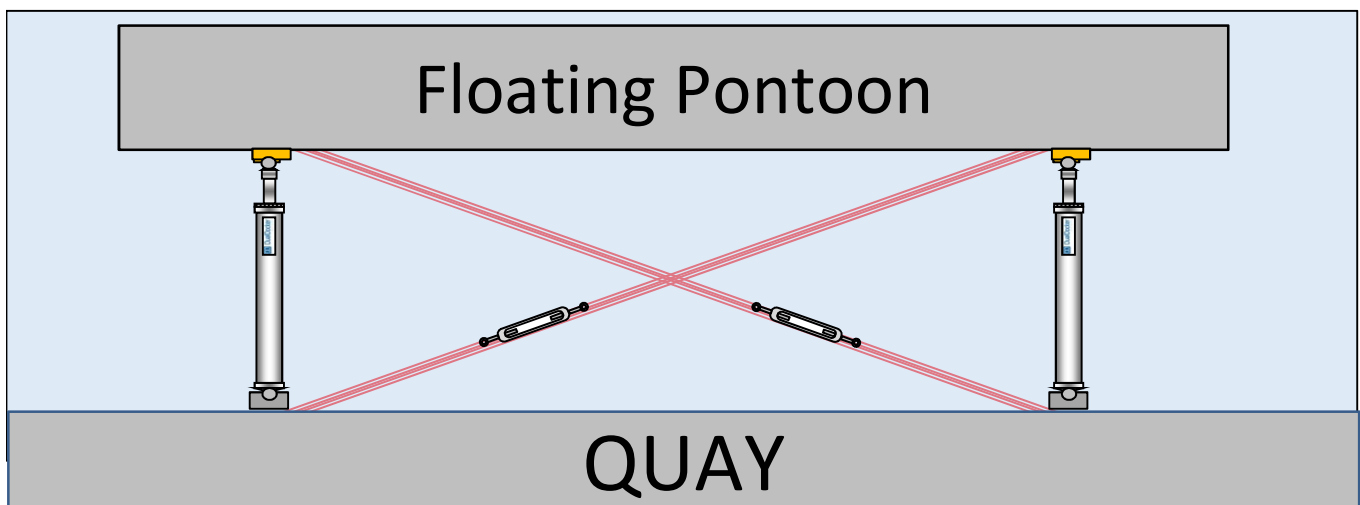
Also use professional bolt /screw lock to secure bolts Verwenden Sie auch eine fachgerechte



5.) Installation of Diagonal Lines:

Use lines defined in the project related data sheet.

Use the mandatory lines as per project data sheet (diameter, type - polyester or dyneema and length according to project data sheet)



6.) Tension lines without play:

Use provided turnbuckle to tension lines without play.

Lines must show no play and a slight pretension. Retension if necessary.

Please consider 'Installation instructions for 'LineStop' for further information.

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7.) Start-up Operation:

- Before initial operation the operator must be instructed by authorised professionals.
- The operation, the handling and the supervision of the DualDocker System and the entire overall project must be carried out by trained, mentally and physically able professionals only.
- After installation of the entire DualDocker System make sure everything works smoothly and without play.
- 24 hours after installation, retighten all bolts with torque key and check system again.

8.) Operation & Supervision of DualDocker System and the entire project:

- The operation and the supervision of the DualDocker System and the entire overall project must be carried out by trained, mentally and physically able people only. People under the influence of alcohol or drugs must not operate or supervise the system. Neither must children.

After exceptionally high stress (wind, waves, collisions) the entire DualDocker System must be checked.

- Check all bolts with torque key.
- No play (arms and lines).
- Pretension of lines OK ?
- Obvious damages ?
- Noises ?

9.) Spare Parts and Replacement DualDocker Arm:

- Installation is not part of our scope of services. In a warranty case DualDocker supplies either spare parts or a replacement DualDocker arm.

10.) Do not tamper with seals

DualDocker arms are sealed by the manufacturer. Seals MUST NOT be tampered with. No user serviceable parts in the seals.

DANGER !! HIGH TENSION !! HIGH RISK OF INJURY !!

11.) Disclaimer

The manufacturer is not liable for damages as a result of overload / overstressing. Tolerated forces: See project related technical data sheet and load displacement diagram

Please consider and follow the Securing and Maintenance Instructions.

Contact the manufacturer or an authorised distribution partner for further information or assistance.

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