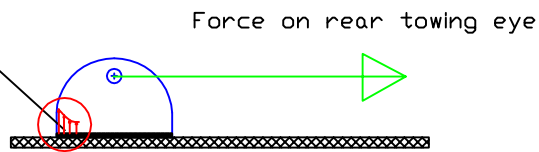


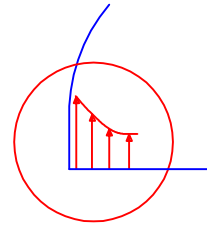
Lowering tension concentrations for on deck welded rear towing eyes by simple adaptations

On the decks of ships or oil platforms several rear towing eyes are welded. The problem is a very unfavourable stress peak in part of the welds. This can be overcome by small adjustments in the design.

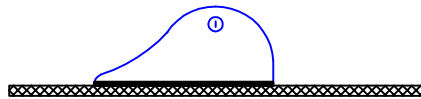
Locally high stresses in the weld



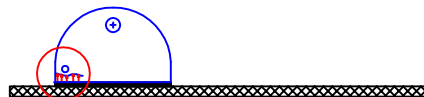
Weld stresses magnified



Solution 1: change the shape of the rear towing eye
This is an expensive solution.



Solution 2: by drilling a hole in the right position a redistribution of the stresses in the welds will occur. This lowers the stress peaks in the welds. Critical stresses in the welds are now reduced



Weld stresses magnified

