

GAS SUPPLY SYSTEM FOR HIGH- AND LOW-PRESSURE GAS-CONSUMING DEVICES AND METHOD FOR CONTROLLING SUCH A SYSTEM

Abstract

The present invention relates to a supply system (1) for supplying a high-pressure gas-consuming device (4) and a low-pressure gas-consuming device (5) of a floating structure comprising a tank (8), the supply system (1) comprising: a first supply circuit (2), a second supply circuit (3), a return line (14), a first heat exchanger (6) and a second heat exchanger (7), the supply system (1) comprising at least one branch (40) for cooling the gas withdrawn in the vapour state from the tank (8), connected to the second supply circuit (3) upstream of the compression device (13), the supply system (1) comprising at least one heat exchanger (41) configured to operate a heat exchange between the vapour-state gas flowing through the cooling branch (40) and the liquid-state gas flowing through the first supply circuit (2).

Fig. 1