

Date: 3rd of November 2025

Reference of exchange of similar USSR pump OP-X-110

To whom it may concern

Please find in the following sections images and technical data related to the exchange of similar USSR pump OP-X-110 for your reference.

The exchange was executed in 2017 in the engineering, assembly and testing were executed in the KSB plant in Bremen, Germany

Yours sincerely

KSB Service GmbH

Steffen Leitsbach



Figure 1 - existing OP-X-110



Figure 2 – KSB PHZ 12-90 VME after commissioning



Figure 3 - KSB PHZ 12-90 VME in KSB factory

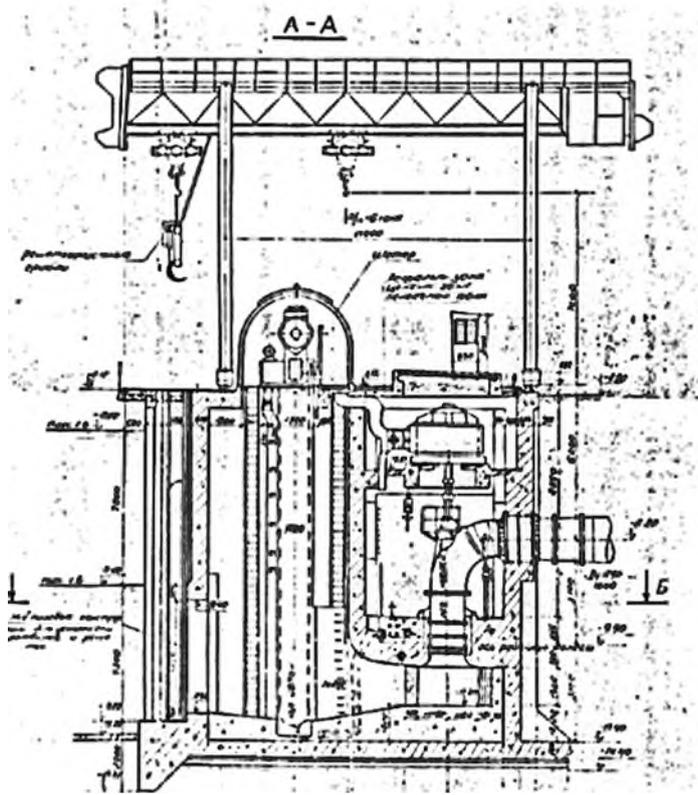


Figure 4 – customer's plant drawing

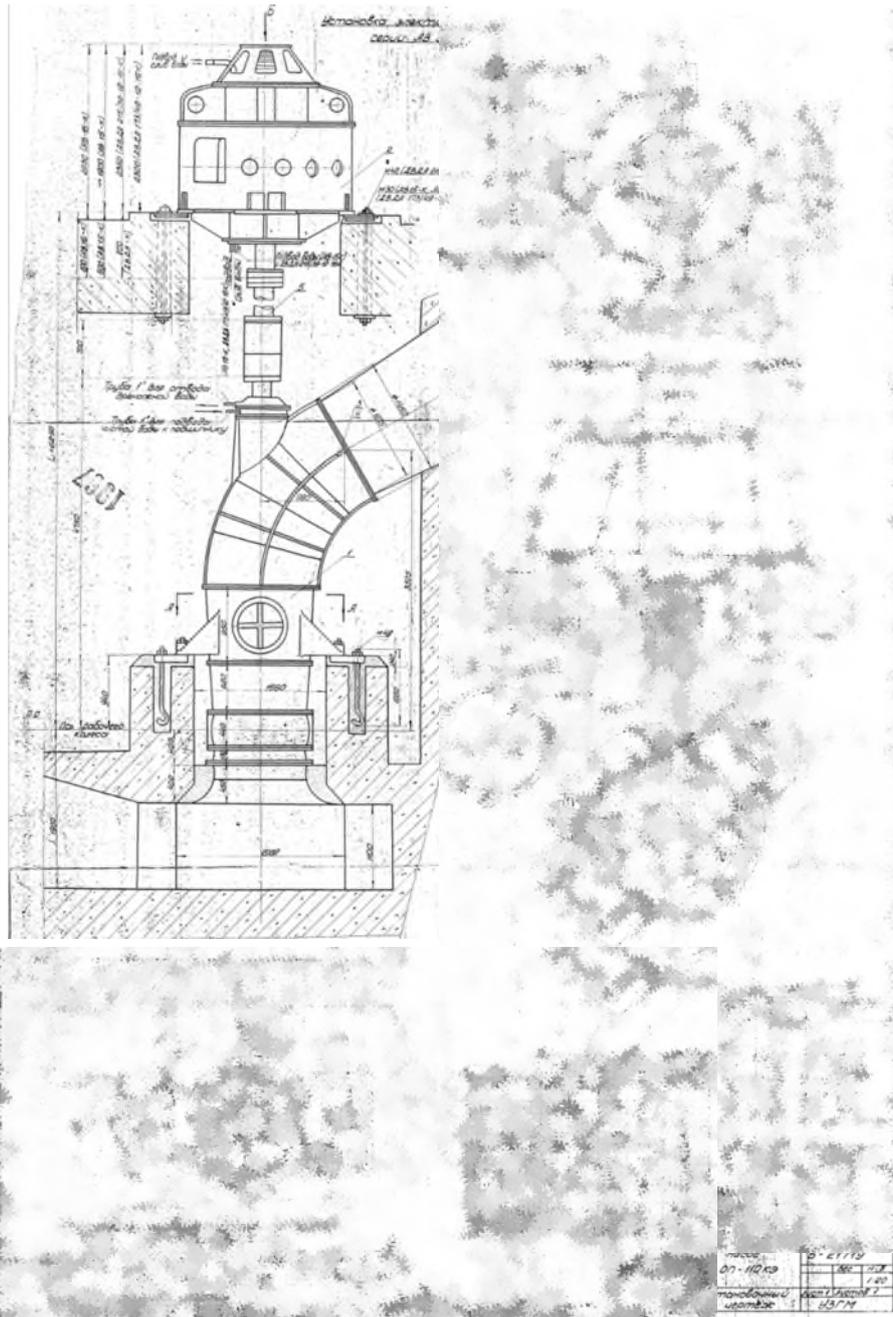


Figure 5 - existing pump's drawing with pump description

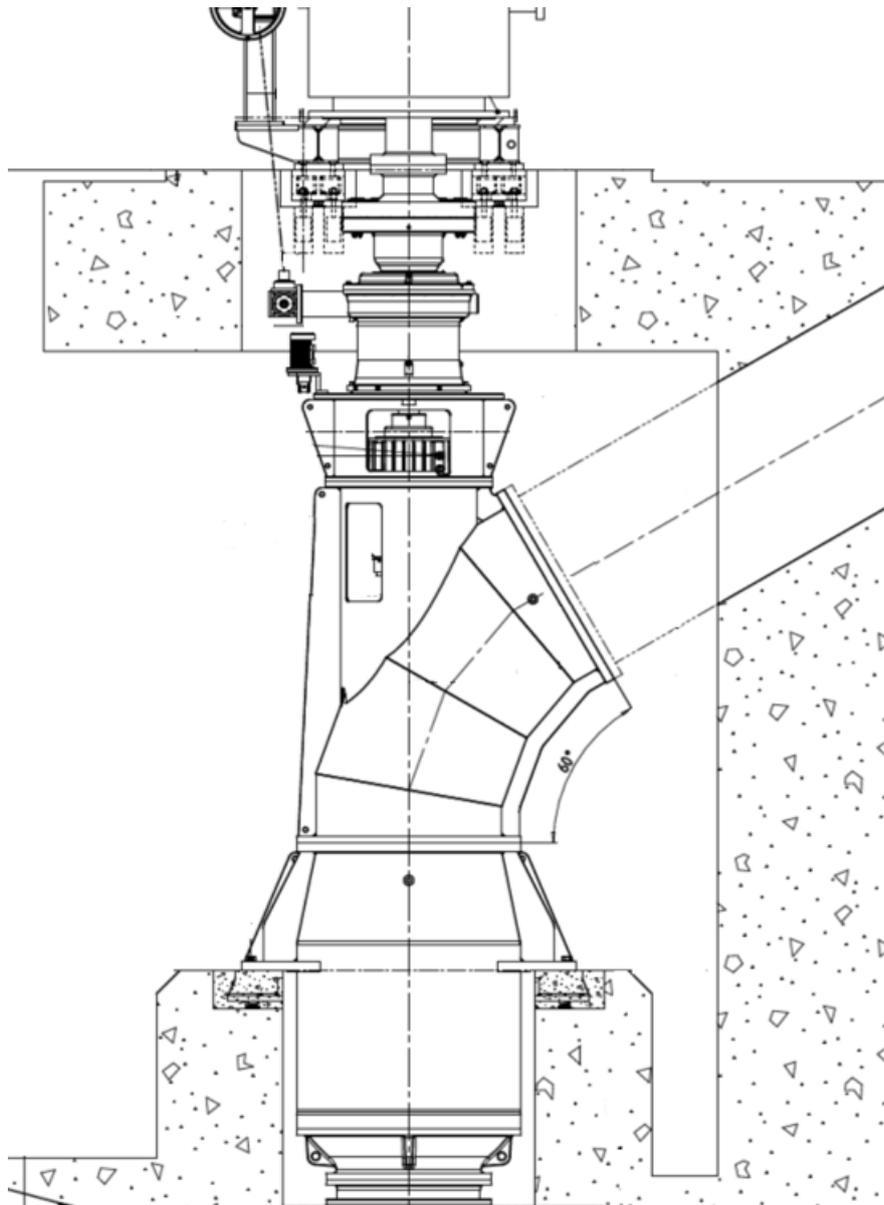


Figure 6 - KSB PHZ 12-90 VME mounting arrangement