

ABSTRACT
IMPRESSED CURRENT PROTECT SYSTEM

Provided is an impressed current protect system
5 capable of improving the corrosion resistance of the metal
pipe material for a seawater pump and a seawater
desalination apparatus at low cost and with high efficiency.
The present invention provides the impressed current
protect system for preventing corrosion of a metal pipe
10 that passes water therethrough, the system including an
anode electrode for impressed current protect sandwiched,
so as to be covered except for part thereof, between two
insulating gaskets interposed between flanges connecting
the coupler sections of the pipe, the part thereof being
15 exposed from the gaskets and configuring a water contact
surface that comes in contact with water inside the pipe,
an anode electrode terminal having at least part thereof
sandwiched between the gaskets, a DC power source connected
to the anode electrode and the pipe via the terminal and
20 electric wiring and flowing an anticorrosion current to the
water passing section of the pipe, a first seal member that
seals the flanges with respect to the gaskets, and a second
seal member that seals the gaskets with respect to the
terminal or that seals the anode electrode with respect to
25 the terminal.

Figure 1