

EP VALVE

Valve for seawater attached with electrolytic corrosion preventive device

A product jointly developed by Japan Synthetic Rubber Co., Ltd. Furukawa-Kogyo Co., Ltd. Technical assistance extended by Nippon Corrosion Prevention Industry Co., Ltd. (Patents pending)

As for seawater valves, a definite countermeasure against trouble arising from electrolytic corrosion was not available so far. The present situation is such that coating of various kinds of painting or attachment of lining is pursued for expecting the effect of preventing corrosion. Otherwise the conception of using these valves as wearable items is given, Japan Synthetic Rubber Co., Ltd. and Furukawa Kogyo, Co., Ltd. jointly have been tackling with this problem since the year 1968. As a result of conducting, various experiments, recently valve for seawater attached with electrolytic corrosion preventive device was developed applying the principle of electro-anode system. This valve was named as EP Valve. By installing these valves of innovative conception in seawater pipe lines of Chiba Factory and Kashima Factory of Japan Synthetic Rubber Co., Ltd. very good results were obtained. Thereby patents were applied by these 2 companies.

Especially in view of the recent trend that large size seawater valves are employed in large quantity accounting for a large proportion in terms of investment, replacement of valves in bound to incur large amount of cost. This EP Valve of new conception is recommended which requires only the replacement of anode and assures the use over the period of many years and minimized running cost.

PRINCIPLE OF PREVENTING ELECTROLYTIC CORROSION

The electric method of preventing corrosion resorting to electro-anode system is such that metal body of low potential such as zinc and magnesium is of low potential such as zinc and magnesium is connected to the part that requires corrosion prevention. Thereby utilizing the difference of potential between these 2 kinds of metals, the current for preventing corrosion is let to arise by means of the so-called pattery function, since the metal body of low potential which plays the main role of this corrosion preventive method wears off by producing the flow of electric current by itself, the name to this metal body is called as electric current flow anode or sacrificing anode on the basis of this attractive device the anode (the metal body of low potential) is composed of a zinc type one with high purity.

REPLACEMENT OF ANODE

Replacement of anode can be readily done by simply removing the bottom lid of electrolytic corrosion preventive device part.

DETAILS OF THE PART OF ELECTROLYTIC CORROSION PREVENTIVE DEVICE

Explanation of the drawing



Fig. V2EP

