

## Corrosion test

This is a test result of how corrosion changes with different materials and combinations of stainless steel. Washers and bolts were attached to the shaft and immersed in each solution for about one year.

Liquid Result	Shaft: SUS316 Washer / Bolt: SUS304	Shaft: SUS304 Washer / Bolt: SUS304
Chlorine water (1000 ppm)  No change		
Chlorine water (5000 ppm)  A bit of corrosion		
Acid detergent (diluted 10 times with water)  SUS316: Discoloration SUS304: Corrosion		
Alkaline detergent (diluted 10 times with water)  A bit of corrosion		
Saline (40000 ppm)  No change		

In acidic liquids, the difference between SUS304 and SUS316 is remarkable. The liquid used in the test is fine for about one year of use, but if other parts are made of cast iron/steel, the pump life may be shorter than this.