

ABSTRACT

PIPE JOINT

Provided herein is a pipe joint of a relatively small joint diameter for use under ultrahigh pressure conditions. The pipe joint includes first and second joint members having mutually communicating fluid passages; and a gasket interposed between abutting end surfaces of the first and second joint members. The first and second joint members have ring-shaped seal projections formed at the abutting end surfaces thereof. The pipe joint satisfies a coefficient F of 0.4 or less in the following formula (1).

Formula (1):

$$F = (D_3^2 - D_1^2) / (D_4^2 - D_2^2),$$

where D_1 represents the inner diameter of the first and second joint members, D_2 represents the inner diameter of the gasket, D_3 represents the diameter of the seal projections, and D_4 represents the outer diameter of the gasket.

Fig. 1