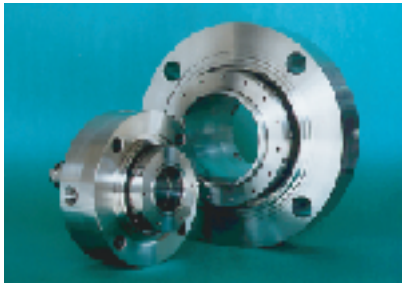
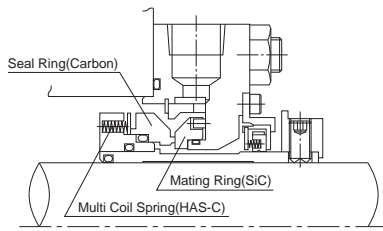
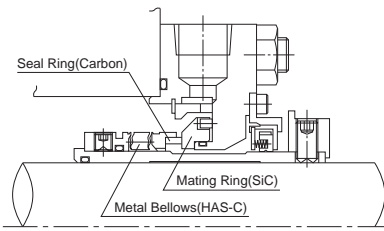


## API 682 qualification mechanical seal

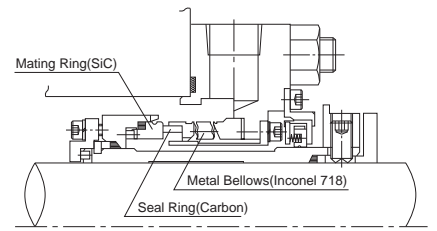
Type A seal



Type B seal



Type C seal



Seal type	
A	Pusher seal/Rotary multi coil spring type/O-ring packing
B	Non-pusher seal/Rotary bellows (Hastelloy C) type/O-ring packing
C	Non-pusher seal/Stationary bellows (Inconel 718) type/Grafoil packing
Seal arrangement	
1	Single seal
2	Dual seal/Unpressurized buffer lower than product
3	Dual seal/Pressurized barrier higher than product

## API 682 qualification test equipment

Hot oil test equipment



LPG (Liquefied Propane Gas) test equipment



## API 682 qualification test conditions

Test fluid	Test conditions	
	Pressure (MPa)	Temperature ( °C )
Water	0 ~ 0.3	20 ~ 80
20wt%-NaOH	0 ~ 0.7	20 ~ 80
Low temp. mineral oil	0 ~ 1.6 (Type B,C) 0 ~ 3.4 (Type A)	20 ~ 90
Hot oil	0 ~ 1.6 (Standard design) 0 ~ 3.4 (Special design)	150 ~ 260
Propane	1.0 ~ 1.7	30

## API 682 qualification test certificate

