

Material		Material mark		Service temperature (°c)			Main component	Application	
		JIS	ASTM	JIS(B8243)	High pressure gas control act	ANSI (B16.34)			
Gray cast iron		FC20	A216 grade A	0~250 220 & under	0~250			low pressure	
Nodular cast iron		FCD45	A536 Cr. 65-45-12	0~350	0~250				
Bronze casting		BC3	B584	-196~225	-196 & over			sea water corrosion resistance, low temp.	
		BC6	B584	-196~225	-196 & over				
Cast of forged steel for high temperature and high pressure service	cast	SCPH2	A216WCB	0~450 425 & under	-5 & under	-29~425		high pressure and high temperature	
	forged	S25C		-10~450	-10 & over 425 & under				
	cast	SCP11	A217WC1	0~550 475 & under	-5 & under	-29~455	0.5Mo		
	forged		A182F1			-29~455			
	cast	SCPH21	A217WC6	0~575 510 & under	-5 & under	-29~593	1.25Cr-0.5Mo		
	forged		A182F11			-29~593			
	cast	SCPH32	A217WC9	0~650	& over	-29~593	2.5Cr-1Mo		
	forged		A182F22			-29~650			
	cast	SCPH61	A217C5	0~650	-5 & over	-29~593	5.25Cr-0.5Mo		
	forged		A182F5A			-29~650			
Cast or forged stainless steel		SCS13	A351CF8	-196~800	-196 & over	-29~800	18Cr-8Ni	corrosion resistance, high pressure, high temperature, and low temperature	
		SUS304		-253~800	-253 & over		18Cr-12Ni		
		SCS14	A351CF8M	-196~800	-196 & over	-29~800	-2.5Mo		
		SUS316		-253~800	-253 & over				
		SCS16	A351CF3M	-196~450	-196 & over	-29~455			
		SUS316L		-268~450					
		SCS19	A351CF3	-196~425	-196 & over	-29~425			
		SUS304L		-268~425					
Cast steel for low temperature and high pressure service		SCPL1	A352LCB	-45~350	-45 & over			low temperature	
		SCPL11		-45 & over			0.5Mo		
		SCPL21	A352LC2	-70~350	-70 & over				2.5Ni
		SCPL31	A352LC3	-100~350	-100 & over				3.5Ni