

JIS

JAPANESE INDUSTRIAL STANDARD

**High strength
chromium-molybdenum alloy
steel forgings for pressure vessels
under high-temperature service**

JIS G 3206—1993

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High strength chromium-molybdenum
alloy steel forgings for pressure vessels
under high-temperature service

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1. Scope This Japanese Industrial Standard specifies the high strength chromium-molybdenum alloy steel forgings to be used for pressure vessels under high-temperature service (hereinafter, referred to as "steel forgings").

Remarks: The standards cited in this Standard are shown in Attached Table 1.

2. Types and symbols Steel forgings shall be classified into three types, and their symbols shall be as given in Table 1.

Table 1. Symbol of type

Symbol of type
SFVCM F22B
SFVCM F22V
SFVCM F3V

3. Chemical composition Steel forgings shall be subjected to the test of 9.2, and the chemical composition shall be as follows.

(1) The chemical composition of steel forgings shall be as given in Table 2 as the cast analysis.

Table 2. Chemical composition

Unit: %

Symbol of type	C	Si	Mn	P	S	Cr	Mo	V
SFVCM F22B	0.17 max.	0.50 max.	0.30 to 0.60	0.015 max.	0.015 max.	2.00 to 2.50	0.90 to 1.10	0.03 max.
SFVCM F22V		0.10 max.			0.010 max.			0.25 to 0.35
SFVCM F3V						2.75 to 3.25		0.20 to 0.30