



Material - ASME SA-351 Grade CG8M

Standard Specification for Austenitic and Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-351 Grade CG8M Austenitic and Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	18.000 - 21.000		
Nickel	Ni %	9.000 - 13.000		
Molybdenum	Mo %	3.000 - 4.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	515 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
317 C 16	BS	British	Casting
1.4448	DIN	Germany	Casting
389 G X 8 CrNiMo 19-11-4	SFS	Finland	Casting
J93000	UNS	USA	Casting
A743 CG8M	ASTM	USA	Casting
A744 CG8M	ASTM	USA	Casting
A351 CG6M	ASTM	USA	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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