

## Material: DIN 1.7706

### Standard Specification for Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 1.7706 Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	1.200 - 1.500		
Molybdenum	Mo %	0.900 - 1.100		
Vanadium	V %	0.200 - 0.300		
Tin	Sn %	0.025 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	590 - 780
-	-	-	Yield Strength in Mpa	440 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
422744	CSN	Czech Republic	Casting
1.7706	EN	European Union	Casting
J21610	UNS	USA	Casting
G 17 CrMoV 5-10	AFNOR NF	France	Casting
G 17 CrMoV 5-10	UNI	Italy	Casting
L 17 HMF	PN	Poland	Casting
A356 9	ASTM	USA	Casting

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