GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-234 WPB

Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Hign Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-234 WPB Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Hign Temperature Service

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

Grade Belongs to the Industry - Steel and Pipe

Chemical Composition		
Carbon	C %	0.300 max.
Manganese	Mn %	0.290 - 1.060
Phosphorus	P %	0.050 max.
Sulphur	S %	0.058 max.
Silicon	Si %	0.100 min.
Chromium	Cr %	0.400 max.
Molybdenum	Mo %	0.150 max.
Nickel	Ni %	0.400 max.
Copper	Cu %	0.400 max.
Vanadium	V %	0.080 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Normalizing & Tempering or As-Raw

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	240 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 520 A106 Grade B	ASTM	USA	Steel
A 520 A106 Grade A	ASTM	USA	Steel
A 106 Grade A	ASTM	USA	Steel and Pipe
A 106 Grade C	ASTM	USA	Steel and Pipe
A 53 Type S Grade B	ASTM	USA	Steel and Pipe
A 53 Type E Grade B	ASTM	USA	Steel and Pipe
A 106 Grade B	ASTM	USA	Steel and Pipe

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.