GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A182 F54

Standard Specification for Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A182 F54 Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

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

Grade Belongs to the Industry - Pipe, Bars and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Silicon	Si %	0.800 max.
Nickel	Ni %	6.000 - 8.000
Chromium	Cr %	24.000 - 26.000
Molybdenum	Mo %	2.500 - 3.500
Nitrogen	N %	0.240 - 0.320
Copper	Cu %	0.200 - 0.800
Tungsten	W %	1.500 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	800 min.
Yield Strength in Mpa	550 min.
Elongation in %	15 min.
Reduction of Area in %	30 min.
Hardness in HB	310 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S39274	UNS	USA	Steel
SA-789 UNS S39274	ASME	USA	Steel and Tubing
SA-815 UNS S39274	ASME	USA	Bars, Plate, Forging and Tubing
A 815 S39274	ASTM	USA	Steel and Pipe
A 988 S39274	ASTM	USA	Steel
A 959 S39274	ASTM	USA	Steel
A 790 S39274	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

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