

ASTM A193 Grade B16 is a grade specification for low alloy chromium-molybdenum-vanadium steel, used for manufacturing of bolts, studs, stud bolts and other fasteners for bolting pressure vessels, valves, flanges and fittings, specially for power generation industry.



## Chemical Composition (Chromium-Molybdenum-Vanadium Steel)

Element	C	Mn	P	S	Si	Cr	Mo	V	Al
Min	0.36	0.45			0.15	0.80	0.50	0.25	
Max	0.47	0.70	0.035	0.040	0.35	1.15	0.65	0.35	0.02

## Mechanical Properties

Size (Diameter, Inches) ==>	2 1/2 and under	over 2 1/2 to 4	over 4 to 8
Ultimate Tensile Strength, ksi (Mpa)	125 (860)	110 (760)	100 (690)
0.2% Yield strength, ksi (Mpa)	105 (725)	95 (655)	85 (585)
% Elongation (min)	18	17	16
% Reduction of Area (min)	50	45	45
Hardness HBW (max)	321 HBW / 35HRC	321 HBW / 35HRC	321 HBW / 35HRC
Minimum Tempering Temperature, °C (°F)	1200 (650)	1200 (650)	1200 (650)



## Products

Bolts	Studs	Screws	Bars
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