

SPECIFICATION OF HIGH-PRESSURE CYLINDER TUBE

O.D. (mm)	W. T. (mm)
60	4.5-6.5
70	4.5-7.0
89	4.5-8.0
102, 108, 114, 121	4.5-10.0
123, 127, 140(139.7), 146, 152(152.4)	4.5-12.0
165	5.0-12.0
168	5.0-14.0
178, 180, 182, 194, 204, 219, 223	5.5-15.0
229	5.5-14.0
232	6.0, 8.0-18.0
245	8.0-20.0
255,262,267,273,279	7.5-21.0, 24.0-30.0
356	8.5-17.0, 20.0-27.0,30.0-36.0
406	8.5-22.0, 25.0-28.0, 35.0-38.0
559	16.0-27.0
610	18.0-30.0
630	18.0-30.0

CHEMICAL COMPOSITION

Steel Grade	Chemical composition (%)										
	C	Si	Mn	P	S	P + S	Cr	Mo	Ni	Cu	V
30 CrMo	0.26-0.34	0.17-0.37	0.40-0.70	≤0.030	≤0.025	≤0.050	0.80-1.10	0.15-0.25	-	≤0.20	-
34CrMo4	0.30-0.37	<0.40	0.60-0.90	≤0.035	≤0.030	≤0.050	0.90-1.20	0.15-0.30	-	-	-
37Mn/1	0.36-0.40	0.17-0.37	1.50-1.75	≤0.030	≤0.025	≤0.050	≤0.30	-	-	≤0.20	-
37Mn/2	0.34-0.38	0.17-0.37	1.45-1.70	≤0.030	≤0.025	≤0.050	≤0.30	-	-	≤0.20	-
37Mn/3	0.30-0.37	0.17-0.37	1.40-1.75	≤0.035	≤0.035	≤0.050	≤0.30	≤0.10	≤0.30	≤0.20	0.07-0.12

MECHANICAL PERFORMANCE

Steel Grade	Heat Treatment System for Specimen	Mechanical property			
		Tensile Strength*	Yield Strength*	Elongation	Impact Test
		(≥Mpa)	(≥Mpa)	(≥ %)	(≥ J)
30CrMo	Quenching 890+/-10°C Tempering 650+/-10°C	780	660	16	55
34CrMo4 (1)	Quenching 830-890°C Tempering 540-680°C	900-1100	650	12	40
34CrMo4 (2)	Quenching 830-890°C Tempering 540-680°C	1000-1200	800	11	-
37Mn/1	Normalizing 840+/-10°C	730	520	16	30
37Mn/2	Quenching 840+/-10°C Tempering 600+/-10°C	730	610	16	55
37Mn/3	Normalizing 870+/-10°C	730	520	16	30

Note: 34CrMo4 acc. to EN10083, others to GB18248

(1) 8<W.T≤20; (2) W.T≤8

\*For reference only