NEOFLEX

PRECISION TUBES

Steel types
Fine grain E235N acc. To EN 10305-4 (St. 37.4 acc. To DIN 1630/DIN 2391 old designation)
Tensile strength, Rm
340 N/mm2 min. 49,000 lb/in2
Yield point, ReH
235 N/mm2 min. 34,000 lb/in2
Ductile yield A5 (longit.)
25% min.
Condition Part Number
Seamless, cold drawn, normal annealed DIN EN 10305-1 and -4
Tests and certifications
All tubes are subjected to a non-destructive leak test and marked accordingly as proof. This marking re places a works certificate DIN EN 10204-2.2.
Recommended bend radius
A bend radius of 3x the external tube diameter is recommended for cold bending of tubes with tube benders or by hand.
Welding suitability and weldability
Tubes of E235N are weldable according to usual techniques. The welding machine should be selected in accordance with DIN EN 1600 and DIN EN 12072 part 1 taking into account the type of application and the welding technique.
Tolerances DIN EN 10305-4

Technical data

Order code	Tube	Tolerance	Wall thickness (mm)	Tube	Design pressure (bar)		Burst pressure (bar)	Weight
	O.D. (mm)			I.D. (mm)	DIN 2413 I Static	DIN 2413 III Dynamic		
Tube 6x1	6.0	± 0.08	1.0	4.0	444	372	1650	0.123
Tube 8x1	8.0		1.0	6.0	333	288	1175	0.173
Tube 10x1,5	10.0		1.5	7.0	423	357	1450	0.314
Tube 12x1,5	12.0		1.5	9.0	353	303	1150	0.388
Tube 14x1,5	14.0		1.5	11.0	302	264	975	0.462
Tube 15x1,5	15.0		1.5	12.0	282	248	950	0.499
Tube 16x2	16.0		2.0	12.0	353	303	1175	0.691
Tube 18x1,5	18.0		1.5	15.0	235	209	700	0.610
Tube 20x2,5	20.0		2.5	15.0	353	303	1100	1.079
Tube 22x2	22.0		2.0	18.0	256	227	775	0.986
Tube 25x2,5	25.0		2.5	20.0	282	248	850	1.387
Tube 28x2,5	28.0		2.5	23.0	252	223	750	1.572
Tube 30x3	30.0		3.0	24.0	282	248	850	1.998
Tube 35x3	35.0	± 0.15	3.0	29.0	242	215	700	2.367
Tube 38x4	38.0		4.0	30.0	297	260	900	3.354
Tube 42x3	42.0	± 0.20	3.0	36.0	201	181	575	2.885