



HIGH PRESSURE TUBING

Up to 100.000 psi / 6.895 bar

For waterjet cutting, production lines, hydraulic and pneumatic testing, automotive and aerospace sectors.

ELITEHPT 
High Pressure Technology

HIGH PRESSURE SEAMLESS RIGID TUBING

Elite HPT high pressure tubing is seamless and cold-drawn with high yield and tensile strength up to 100.000 psi (6.895 bar) from 1/4" up to 1" O.D.

Tubing is used in a various range of applications, not only for high pressure but also for aggressive (corrosive) medium.

Main applications are waterjet cutting, production lines, hydraulic and pneumatic testing. Tubing is suitable with both liquids and gases.

The standard material used is 316L stainless steel (up to 60.000 psi/4.136 bar). On request, tubing can also be manufactured from special materials such as Hastelloy, Inconel, Duplex, Superduplex, Monel and others, depending on applications requirements.

Tubing is provided in random lengths of 6/7 metres (19,68–23 ft) and we can handle tubes up to 12 metres (39.4 ft). Custom lengths are available on request and 1/4" tubing can also be supplied in coils.

Custom branding and marking options are available to meet specific customer requirements.



MECHANICAL PROPERTIES*

RATING SERVICE		YIELD POINT	TENSILE STRENGTH	ELONGATION	HARDNESS
PSI	BAR	N/MM ²	N/MM ²	MIN. %	MIN. HRB
10.000	689	≥ 517	≥ 724	≥ 22	≥ 95
20.000	1.378	≥ 517	≥ 724	≥ 22	≥ 95
30.000	2.068	≥ 689	≥ 758	≥ 18	≥ 95
40.000	2.757	≥ 689	≥ 758	≥ 18	≥ 95
60.000	4.136	≥ 689	≥ 758	≥ 18	≥ 95
100.000	6.895	≥ 900	≥ 1000	≥ 14	≥ 95

* Reference value

RECOMMENDED BEND RADIUS

for Medium & High Pressure Tubing (316L)

20.000 PSI (1.380 BAR)	
SIZE (INCH)	MR (MIN)
	INCHES (MM)
1/4" x 0,111	1,25 (32)
3/8" x 0,208	1,75 (44)
9/16" x 0,318	2,62 (67)
3/4" x 0,444	3,5 (89)
1" x 0,567	4,62 (117)

60.000 PSI (4.136 BAR)	
SIZE (INCH)	MR (MIN)
	INCHES (MM)
1/4" x 0,085	1,25 (32)
3/8" x 0,130	1,75 (44)
9/16" x 0,193	2,62 (67)

STANDARD TUBING SIZES

CODICE	SIZE	TUBE OD	TUBE ID	WALL THICKNESS	WEIGHT	RATING SERVICE		DIAMETER TOLERANCE			
								OUTSIDE		INSIDE	
	INCH	MM	MM	MM	Kg/m	PSI	BAR	INCH	MM	INCH	MM
TU.00.100.04.HPT6	1/4"	6,35	2,1	2,09	0,217	100.000	6.895	0,248/0,243	6,299/6,172	0,079/0,084	2,007/2,134
TU.05.60.04.316	1/4"	6,35	2,1	2,09	0,223	60.000	4.136	0,248/0,243	6,299/6,172	0,079/0,083	2,007/2,108
TU.05.20.04.316	1/4"	6,35	2,8	1,77	0,203	20.000	1.378	0,248/0,243	6,299/6,172	0,104/0,109	2,642/2,769
TU.00.100.06.HPT6	3/8"	9,53	3,2	3,11	0,485	100.000	6.895	0,370/0,365	9,398/9,271	0,121/0,126	3,073/3,200
TU.05.60.06.316	3/8"	9,53	3,2	3,11	0,500	60.000	4.136	0,370/0,365	9,398/9,271	0,121/0,125	3,073/3,175
TU.05.20.06.316	3/8"	9,53	5,2	2,12	0,393	20.000	1.378	0,370/0,365	9,398/9,271	0,198/0,203	5,029/5,156
TU.00.100.09.HPT6	9/16"	14,28	4,8	4,7	1,108	100.000	6.895	0,557/0,552	14,148/14,021	0,182/0,187	4,623/4,750
TU.05.60.09.316	9/16"	14,28	4,8	4,7	1,127	60.000	4.136	0,557/0,552	14,148/14,021	0,182/0,187	4,623/4,750
TU.05.40.09.316	9/16"	14,28	6,5	3,9	1,013	40.000	2.757	0,557/0,552	14,148/14,021	0,245/0,250	6,223/6,350
TU.05.20.09.316	9/16"	14,28	7,8	3,11	0,870	20.000	1.378	0,557/0,552	14,148/14,021	0,307/0,312	7,798/7,925
TU.05.10.09.316	9/16"	14,28	9,28	2,50	1,124	10.000	689	0,557/0,552	14,148/14,021	0,354/0,359	8,992/9,119
TU.05.20.12.316	3/4"	19,05	11,1	3,91	1,483	20.000	1.378	0,745/0,740	18,923/18,796	0,432/0,437	10,973/11,100
TU.05.20.16.316	1"	25,4	14,3	5,5	2,740	20.000	1.378	0,995/0,990	25,273/25,146	0,557/0,562	14,148/14,275

MAIN FEATURES

- Operating temperature range from -252°C to +649°C
- External surface finish: bright finish, free from lamps/flaws/fissures
- Bore surface finish: minimum 100 RMS = 2,3 Ra µm = 92 AARH
- Standard non-destructive test: Eddy current ASTM A1016
- Rating from 10.000 – 100.000 psi (689 – 6.895 bar)



ELITE HPT

EXCELLENCE IN HIGH PRESSURE TECHNOLOGIES

Elite HPT knows well how much quality counts in the high pressure market. This is why we developed a partnership with Italian and European suppliers and joined forces to create Elite HPT products.

Our high pressure components are the result of our shared knowledge on the parameters required to obtain top quality products suitable for the most critical high pressure applications and fields, such as Waterjet, Oil&Gas and Hydrogen.

Our components undergo strict quality controls such as dimensional control, eddy current testing, metallographic examinations, technological testing, intergranular corrosion.

According to customer specifications, we perform lab tests, corrosion tests, pressure tests, quality assurance.

Elite HPT uses only raw material suppliers that work under EN ISO 9001 conditions. All materials are certified according to EN ISO 9001 : 2015, comply with Directive 2014/68/EU on pressure equipment, and meet the requirements of Annex I, section 4.3. Materials are supplied also with 3.1 or 3.2 certificates (TÜV SÜD) in accordance with EN 10204 : 2004.





**Quality is our priority,
and we care for every
single detail.**

Our careful packaging ensures
the integrity of the components
during transportation.

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