



# HIGH PRESSURE TUBING

Up to 88.000 psi / 6.070 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** are seamless and cold-drawn with high yield and tensile strength up to 88.000 psi (6.070 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 for liquids and gases.

Standard materials are 316L. Typical special materials (Hastelloy, Inconel, Duplex, Superduplex, Monel and others) are available upon request.

Tubing is provided in random lengths of 5-7 metres (16,4-23 ft), it can be supplied to customer length as required and it can also be coiled (only 1/4").

Tubing can also be custom branded.



## MECHANICAL PROPERTIES

RATING SERVICE		YIELD POINT	TENSILE STRENGTH	ELONGATION	HARDNESS
PSI	BAR	N/MM <sup>2</sup>	N/MM <sup>2</sup>	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
88.000	6.070	≥1100	≥ 1200	≥ 12	≥

## 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 (4.140 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.00.88.04.HPT6	1/4"	6,35	2.1	2,09	0,223	88.000	6.070	0,248/0,243	6,299/6,172	0,079/0,083	2,007/2,108
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.00.88.06.HPT6	3/8"	9,53	3.2	3,11	0,500	88.000	6.070	0,370/0,365	9,398/9,271	0,121/0,125	3,073/3,175
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.00.88.09.HPT6	9/16"	14,28	4.8	4,7	1,127	88.000	6.070	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  $-252^{\circ}\text{C}$  to  $+649^{\circ}\text{C}$
- External surface finish: bright finish, free from lamps/flaws/fissures
- Bore surface finish: minimum 100 RMS = 2,3 Ra  $\mu\text{m}$  = 92 AARH
- Standard non-destructive test: Eddy current ASTM A450/E426
- Rating from 10.000 – 88.000 psi (689 – 6.070 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 European and American 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 and has a specific assessment for materials for applications covered by Directive 97/23/EC on pressure equipment and comply with Annex I, section 4.3, for acceptance of type 3.1 material certificates 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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