

The background of the entire image features several large, overlapping, perspective-view images of seamless steel tubes. The tubes are arranged in a way that creates a sense of depth and scale. The top half of the image shows the tubes in their natural metallic silver color against a solid blue background. The bottom half of the image is a dark red overlay that covers the lower portion of the tubes. The text 'SEAMLESS STEEL TUBES PRODUCTION PROGRAM' is centered within this red area in a white, sans-serif font.

SEAMLESS STEEL TUBES PRODUCTION PROGRAM



TŘINECKÉ ŽELEZÁŘNY



MORAVIA STEEL



CONTENT

03	COMPANY PROFILE
04	PRODUCTION SCHEME
06	PRODUCT ASSORTMENT
08	TUBES FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE
16	LINE PIPE
23	CASING
28	MECHANICAL TUBING ACCORDING TO ASTM A519 AND COUPLING STOCK ACCORDING TO API 5CT
32	SEAMLESS SQUARE AND RECTANGULAR HOLLOW SECTIONS
34	NON DESTRUCTIVE TESTING
36	CERTIFICATES
40	TESTING
42	CONTACT



COMPANY PROFILE

The very first tube in the Austro-Hungarian Monarch had been manufactured in our company in 1883. Welded at first, the specialised tube production was inspired by the rocketing demand generated by the fast spreading use of steam boilers, by the construction of water and gas supply systems, by the developing oil exploitation, as well as by the potential of a modern steel making company. Seamless tubes were introduced in 1896 and the Stiefel technology started under personal supervision of the inventor himself in 1908.

Our company thus became the Europe's first seamless tube manufacturer using then the state-of-the-art technology. In the period between 1918 and 1925 two Mannesmann rolling mills had started. In 1999 the tube mill became a joint-stock company with its self-legal subjectivity. We have been a member of the group TŘINECKÉ ŽELEZÁRNY – MORAVIA STEEL since 2005. A corporate consolidation of the successional company TŘINECKÉ ŽELEZÁRNY, a. s. and the dissolving company VÁLCOVNA TRUB TŽ, a.s. took place on 1st September 2010. Mill's assets and liabilities were passed over to the company TŽ.

Two Mannesmann rolling mills work today to put out seamless tubes in diameters ranging from 60,3 mm to 406,4 mm and wall thickness starting at 6,3 mm using alloy or carbon steel for raw

materials. Today's rolling mill production uses sophisticated technology to manufacture a wide selection of tubes in terms of size and steel grade, that conforms with foreign standards such as API, ASME, ASTM, DIN, EN, ISO, NFA or with the Czech ČSN standards.

OUR TUBES ARE MAINLY USED IN THE FOLLOWING FIELDS:

engineering, construction,

oil, gas or product pipelines,

automotive industry,

power generating installations,

power-supply units and systems production,

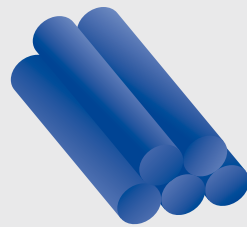
dominating to our production program are 7" – 13 3/8" Casing and 5" – 16" Line Pipe applicable in oil and gas exploitation and geological prospecting.

Materials are tested on mechanical properties, chemical composition and metallographic structures with comply of customers request. Non-destructive testing is conducted using techniques such as eddy current, flux leakage, ultrasonic, magnetic particle or wetting fluorescent.

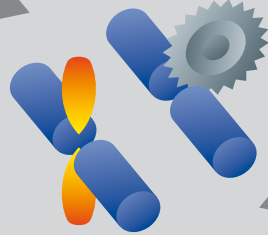




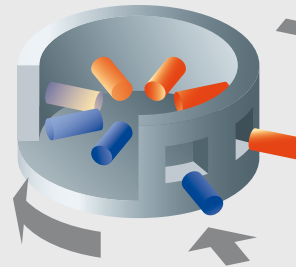
PRODUCTION SCHEME



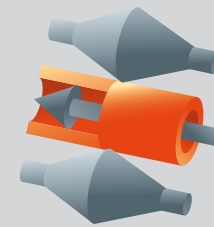
1. Raw material



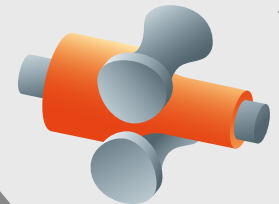
2. Preparation of material



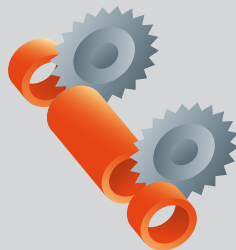
3. Rotary heart furnace



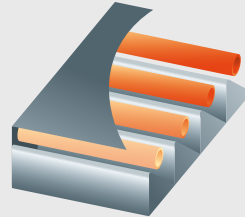
4. Piercing mill



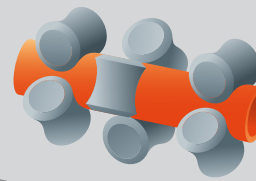
5. Pilger mill



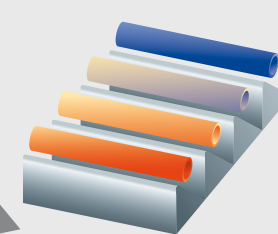
6. Hot saw



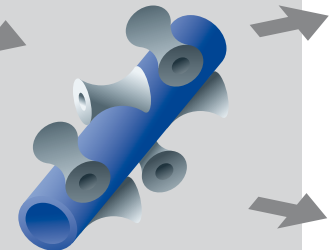
7. Walking beam furnace



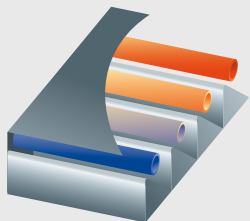
8. Sizing mill



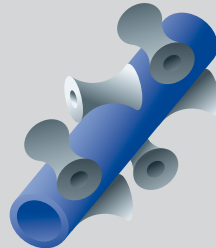
9. Cooling bed



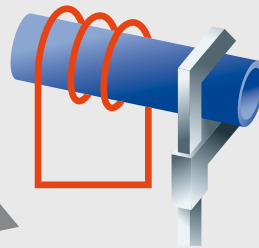
10. Straightening



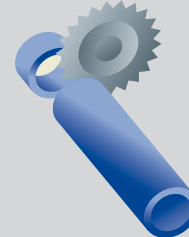
11. Heat treatment and pickling



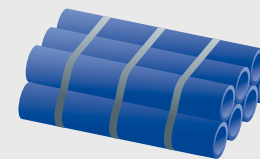
12. Straightening



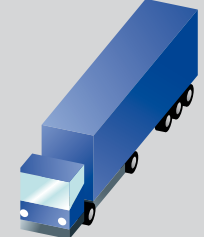
13. Testing and measuring



14. Cold saw

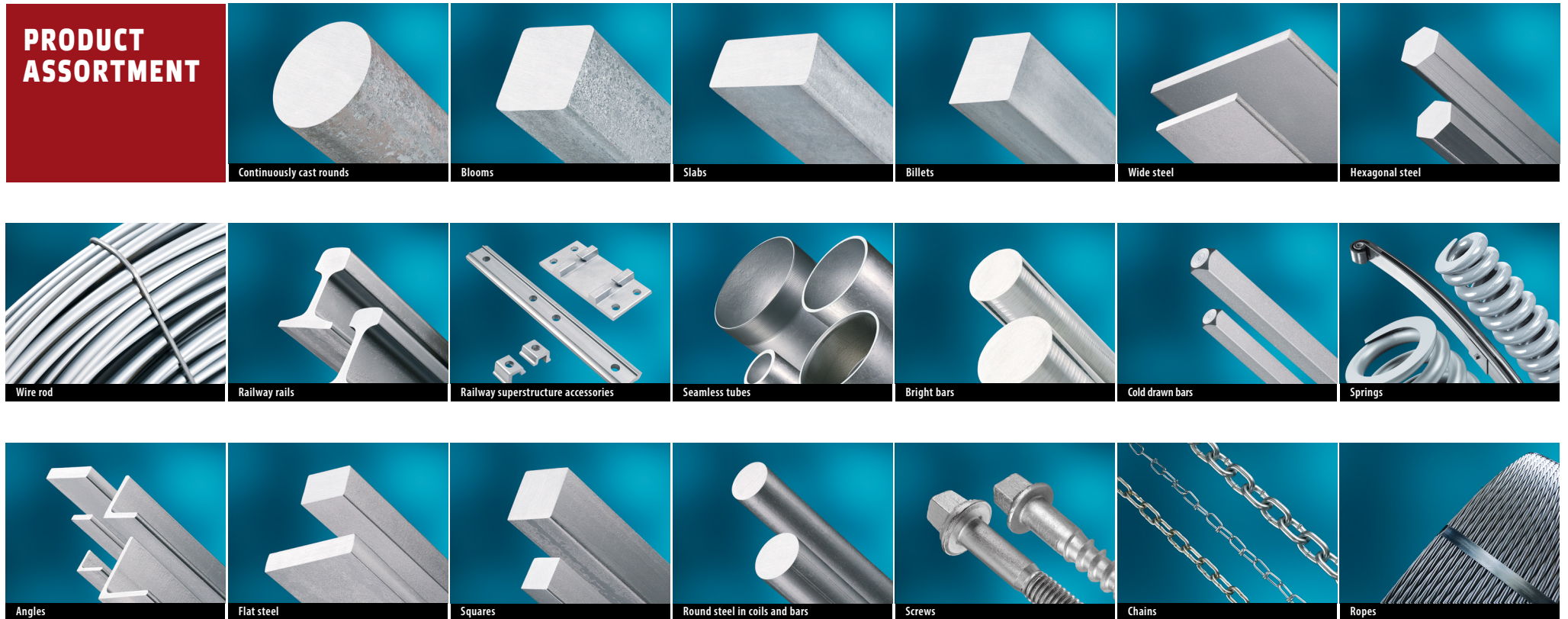


15. Marking, lacquering, bending, packing



16. Transport







PRODUCT ASSORTMENT

- 08** TUBES FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT,
ENERGY ENGINEERING AND GENERAL USE
- 16** LINE PIPE
- 23** CASING
- 28** MECHANICAL TUBING ACCORDING TO ASTM A519 AND COUPLING STOCK ACCORDING TO API 5CT
- 32** SEAMLESS SQUARE AND RECTANGULAR HOLLOW SECTIONS



PRODUCT ASSORTMENT

TUBES FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE

➤
COMPANY
PROFILE

➤
PRODUCTION
SCHEME

➤
PHOTOS
FROM THE
PRODUCTION

➤
PRODUCT
ASSORTMENT

➤
NON DESTRUCTIVE
TESTING

➤
CERTIFICATES

➤
TESTING

➤
CONTACT


TUBES FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE

STANDARD	HEAT TREATMENT	GRADE
EN 10210-1, EN 10210-2	+N	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H, S355NH, S355NLH, S420NH ⁴⁾ , S420NLH ⁴⁾ , S460NH, S460NLH
EN 10216-1	+N	P235TR1, P235TR2, P265TR1, P265TR2
EN 10216-2	+N	P235GH, P265GH, 16Mo3,
	+NT	14MoV6-3 ²⁾ , 13CrMo4-5 ¹⁾ , 10CrMo9-10 ²⁾ ,
EN 10216-3	+N	P275NL1 ³⁾ , P275NL2 ³⁾ , P355N, P355NH, P355NL1, P355NL2, P460N, P460NH, P460NL1, P460NL2, P620Q, P620QH
EN 10216-4	+N	P215NL, P265NL
EN 10297-1	+AR	E235, E275, E355, E470, 20MnV6
	+N	E235, E275, E355, E355K2, E420J2, E460K2, C45E, C60E, 20MnV6, 34CrMo4, 42CrMo4
	+A	16MnCr5, 34CrMo4, 42CrMo4
	QT ⁷⁾	20MnV6, E590K2, 34CrMo4, 42CrMo4
EN 10225-3	+N	S355NH ⁸⁾
ASTM A53/ASME SA 53	+N	Gr. A, Gr. B
ASTM A106/ASME SA 106	+N	Gr. A, Gr. B, Gr. C
ASTM A333/ASME SA 333	+N	Gr. 1, Gr. 6
DIN 1629	+N	St 37.0, St 44.0, St 52.0
DIN 1630	+N	St 37.4, St 44.4, St 52.4
DIN 17121	+N	RSt 37-2, St 37-3, St 44-2, St 44-3, St 52-3
DIN 17175	+N	St 35.8, St 45.8, 15Mo3,
	+NT	13CrMo44 ¹⁾ , 10CrMo9-10 ²⁾ , 14MoV6 3 ²⁾
DIN 17204	+N	C 45, Ck 45, C 55, Ck 55, C 60, Ck 60



TUBES FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE

STANDARD	HEAT TREATMENT	GRADE
ČSN 420250	+N	11 353, 11 453, 11.658, 12 021 ⁵⁾ , 12 022 ⁶⁾ , 11 523, 11 650, 12 050, 13 220, 14 220
	+A	14 220
	QT ⁷⁾	14 341 ²⁾
ČSN 420251	+N	12 021 ⁵⁾ , 12 022 ⁶⁾ , 12 050, 15 020
	+NT	15 121 ¹⁾ , 15 128, 15 313 ²⁾
	QT ⁷⁾	15 128

Heat treatment: +AR – as rolled, +N – normalized, +A – annealed, +NT – normalized and tempered, +QT – quenched and tempered

¹⁾ Production from cast bloom or ingots in limited quantities

²⁾ Production only from ingots in limited quantities

³⁾ Only by agreement – min. quantity (net production from 2 heats)

⁴⁾ Only wall thicknesses > 16 mm

⁵⁾ Increased content of C = max. 0.16 %

⁶⁾ Increased content of Mn = 1.00 – 1.20 %

⁷⁾ QT only for outside diameter ≥ 88.9 mm and wall thickness ≥ 10 mm
(grades 34CrMo4 and 42CrMo4 from the wall thickness 12.5 mm depending on outside diameter)



TUBE LENGTHS FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE FROM VM (PRODUCED FROM CAST BLOOM) IN METERS

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)																					
	6.3	7.1	8.0	8.8	10.0	11.0	12.5	14.2	16.0	17.5	20.0	22.2	25.0	28.0	30.0	32 (34)	36 (38)	40.0	45.0	50.0	55.0	60.0
168.3	6 - 7	5.5 - 7	5 - 7	5 - 7	4 - 7	4 - 7	4 - 14	4 - 14	4 - 14	5 - 13.2	4.5 - 11.5	4.3 - 8	4 - 7.3	4 - 6.6	4 - 8.3	4 - 5.8 (4 - 5.6)	N/A	N/A	N/A	N/A	N/A	N/A
	12 - 14	11 - 14	10 - 14	10 - 14	8 - 14	8 - 14																
177.8	6 - 7	5 - 7	5 - 7	5.5 - 7	4.7 - 7	4.4 - 7	4 - 14	4 - 13.5	4 - 13.5	5 - 12.0	4.5 - 11.5	4 - 10.5	4 - 9.3	4 - 6.6	4 - 6.3	4 - 6	4 - 6.5 (4 - 6.5)	N/A	N/A	N/A	N/A	N/A
	12 - 14	10.5 - 14	9 - 14	9.5 - 14	8.5 - 14	7.5 - 14																
191	5.5 - 7	5 - 7	4.5 - 7	5 - 7	4.2 - 7	4 - 7	4 - 14	4 - 14	4 - 13	4.5 - 12	4.5 - 10.3	4 - 9.0	4 - 8.3	4 - 7.7	4 - 7.4	4 - 7.1	4 - 6.7	4 - 6.3	N/A	N/A	N/A	N/A
	11 - 14	9.5 - 14	8.5 - 14	10 - 14	8.5 - 14	8 - 14																
193	5.5 - 7	5 - 7	5 - 7	4.9 - 7	4.2 - 7	4 - 7	4 - 14	4 - 14	4 - 13	4.5 - 12	4.5 - 10.3	4 - 9.0	4 - 8.3	4 - 7.7	4 - 7.4	4 - 7.1	4 - 6.7	4 - 6.3	N/A	N/A	N/A	N/A
	11 - 14	9.5 - 14	9.5 - 14	9.5 - 14	8.5 - 14	8 - 14																
193.7	5.5 - 7	5 - 7	5 - 7	4.9 - 7	4.2 - 7	4 - 7	4 - 14	4 - 14	4 - 13	4.5 - 12	4.5 - 10.3	4 - 9.0	4 - 8.3	4 - 7.7	4 - 7.4	4 - 7.1	4 - 6.7	4 - 6.3	4 - 6.2	N/A	N/A	N/A
	11 - 14	9.5 - 14	9.5 - 14	9.5 - 14	8.5 - 14	8 - 14																
200	5 - 7	5 - 7	5 - 7	4.9 - 7	4.2 - 7	4 - 7	4 - 14	4 - 13.6	4 - 9.5	4.5 - 11	4.5 - 9.7	4 - 9	4 - 8.2	4 - 7.6	4 - 7.3	4 - 7	4 - 6.5	4 - 6.2	N/A	N/A	N/A	N/A
	10 - 14	9 - 14	9 - 14	9.8 - 14	8.4 - 14	8 - 14																
203	5 - 7	5 - 7	5 - 7	4.9 - 7	4.2 - 7	4 - 7	4 - 14	4 - 13.6	4 - 9.5	4.5 - 11	4.5 - 9.7	4 - 9	4 - 8.2	4 - 7.6	4 - 7.3	4 - 7	4 - 6.5	4 - 6.2	4 - 6.1	4 - 5.6	N/A	N/A
	10 - 14	9 - 14	9 - 14	9.8 - 14	8.4 - 14	8 - 14																
204	5 - 7	5 - 7	5 - 7	4.9 - 7	4.2 - 7	4 - 7	4 - 14	4 - 13.6	4 - 9.5	4.5 - 11	4.5 - 9.7	4 - 9	4 - 8.2	4 - 7.6	4 - 7.3	4 - 7	4 - 6.5	4 - 6.2	N/A	N/A	N/A	N/A
	10 - 14	9 - 14	9 - 14	9.8 - 14	8.4 - 14	8 - 14																
216	5 - 7	5 - 7	5 - 7	4.8 - 7	4.2 - 7	4 - 7	4 - 14	4 - 12.5	4 - 11	4.5 - 10.5	4.5 - 9.5	4 - 8.8	4 - 8	4 - 7.5	4 - 7	4 - 6.5	4 - 6	4 - 5.5	N/A	N/A	N/A	N/A
	10 - 14	10 - 14	10 - 14	9.7 - 14	8.5 - 14	8 - 14																
219.1	5 - 7	5 - 7	5 - 7	4.8 - 7	4.2 - 7	4 - 7	4 - 14	4 - 12.5	4 - 11	4.5 - 10.5	4.5 - 9.5	4 - 8.8	4 - 8	4 - 7.5	4 - 7	4 - 6.5	4 - 6	4 - 5.5	4 - 5.5	4 - 5.0	4 - 4.6	4 - 4.4
	10 - 14	10 - 14	10 - 14	9.7 - 14	8.5 - 14	8 - 14																
229	5 - 7	5 - 7	5 - 7	4.8 - 7	4.2 - 7	4 - 7	4 - 13	4 - 12	4 - 11	4.5 - 10.3	4.5 - 9.3	4 - 8.6	4 - 8	4 - 7.2	4 - 6.8	4 - 6.4	3.6 - 5.6	3.6 - 5.2	3.6 - 4.6	3.6 - 4.2	N/A	N/A
	10 - 14	10 - 14	10 - 14	9.7 - 14	8.5 - 14	8 - 14																
241	5 - 7	5 - 7	5 - 7	4.8 - 7	4.2 - 7	4 - 7	4 - 14	4 - 14	4 - 12.7	5 - 11.8	4.3 - 10.8	4 - 10	4 - 9.2	4 - 8.5	4 - 8.2	4 - 7.8	3.6 - 7.3	3.6 - 6.9	3.6 - 6.5	3.6 - 6.0	N/A	N/A
	10 - 14	10 - 14	10 - 14	9.7 - 14	8.5 - 14	8 - 14																



TUBE LENGTHS FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE FROM VM (PRODUCED FROM CAST BLOOM) IN METERS

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)																					
	6.3	7.1	8.0	8.8	10.0	11.0	12.5	14.2	16.0	17.5	20.0	22.2	25.0	28.0	30.0	32 (34)	36 (38)	40.0	45.0	50.0	55.0	60.0
244.5	5 – 7	5 – 7	5 – 7	4.8 – 7	4.2 – 7	4 – 7	4 – 14	4 – 14	4 – 12.7	5 – 11.8	4.3 – 10.8	4 – 10.0	4 – 9.2	4 – 8.5	4 – 8.2	4 – 7.8	3.6 – 7.3	3.6 – 6.9	3.6 – 6.5	3.6 – 6.0	3.6 – 5.5	N/A
	10 – 14	10 – 14	10 – 14	9.7 – 14	8.5 – 14	8 – 14																
254	5 – 7	5 – 7	5 – 7	4.8 – 7	4 – 7	4 – 6.5	4 – 14	4 – 13.6	4 – 12.6	5 – 11.6	5 – 10.6	4 – 9.8	4 – 9.2	4 – 8.5	4 – 8.2	4 – 7.8	3.6 – 7.3	3.6 – 6.9	3.6 – 6.2	3.6 – 5.6	3.6 – 5.2	3.6 – 4.8
	10 – 14	10 – 14	10 – 14	9.7 – 14	8 – 14	8 – 14																
267	6.5 – 7	6.3 – 7	5.3 – 7	4.8 – 7	4.2 – 7	4 – 7	4 – 14	4 – 13.8	4 – 12.5	5 – 11.6	4.3 – 10.5	4 – 9.8	4 – 9.0	4 – 8.4	4 – 8.0	4 – 7.7	3.6 – 7.2	3.6 – 6.5	3.6 – 5.8	3.6 – 5.5	3.6 – 5.3	3.6 – 5
	13 – 14	11 – 14	10 – 14	9.5 – 14	8.5 – 14	8 – 14																
269	6 – 7	5.5 – 7	5 – 7	4.3 – 7	4.2 – 7	4 – 7	4 – 14	4 – 13.7	4 – 12.4	5 – 11.6	4.3 – 10.5	4 – 9.8	4 – 9.0	4 – 8.3	4 – 8	4 – 7.6	3.6 – 7.2	3.6 – 6.8	3.6 – 5.8	3.6 – 5.5	3.6 – 5.3	3.6 – 5
	12.0 – 14	11 – 14	10 – 14	9.7 – 14	8.5 – 14	8 – 14																
273	6 – 7	5.5 – 7	5 – 7	4.3 – 7	4.2 – 7	4 – 7	4 – 14	4 – 13.7	4 – 12.4	5 – 11.6	4.3 – 10.5	4 – 9.8	4 – 9.0	4 – 8.3	4 – 8	4 – 7.6	3.6 – 7.2	3.6 – 6.8	3.6 – 5.8	3.6 – 5.5	3.6 – 5.3	3.6 – 5
	12.0 – 14	11 – 14	10 – 14	9.7 – 14	8.5 – 14	8 – 14																
279	N/A	6.1 – 7	5.3 – 7	4.2 – 7	4.2 – 7	4 – 7	4 – 14	4 – 13	4 – 12	5 – 11	4.3 – 10	4 – 9.4	4 – 8.5	4 – 7.8	4 – 7.4	4 – 7.2	3.6 – 6.6	3.6 – 6.2	3.6 – 6	3.6 – 5.5	3.6 – 5.2	3.6 – 5
	N/A	11 – 14	10 – 14	9.5 – 14	8.5 – 14	8 – 14																
292	N/A	5.5 – 7	5 – 7	5 – 7	4 – 7	4 – 7	4 – 7	4 – 6.5	4 – 5.9	5.8 – 10.9	5 – 9.9	4.5 – 9.2	4 – 8.4	4 – 7.7	4 – 7.4	4 – 7	3.6 – 6.5	3.6 – 6.5	3.6 – 6.4	3.6 – 5.8	3.6 – 5.5	4 – 5
	N/A	10.5 – 14	10 – 14	10 – 14	8 – 14	8 – 14																
296	N/A	5.5 – 7	5 – 7	5 – 7	4.7 – 7	4.5 – 7	4 – 7	4 – 6.4	4 – 5.7	5.8 – 10.9	5 – 9.8	4.5 – 9	4 – 8.3	4 – 7.6	4 – 7.3	4 – 7	3.6 – 6.4	3.6 – 6.3	3.6 – 6	3.6 – 5.3	3.6 – 4.8	3.6 – 4.6
	N/A	11.5 – 14	10 – 14	10 – 14	9.5 – 14	9 – 14																
298.5	N/A	5.5 – 7	5 – 7	5 – 7	4.7 – 7	4.5 – 7	4 – 7	4 – 6.4	4 – 5.7	5.8 – 10.9	5 – 9.8	4.5 – 9	4 – 8.3	4 – 7.6	4 – 7.3	4 – 7	3.6 – 6.4	3.6 – 6.5	3.6 – 5.6	3.6 – 5.8	3.6 – 5.5	3.6 – 5
	N/A	11.5 – 14	10 – 14	10 – 14	9.5 – 14	9 – 14																
305	N/A	5 – 7	5 – 7	5 – 7	4.7 – 6.9	4.5 – 6.4	4 – 7	4 – 6.2	4 – 12	6.6 – 10.8	5.7 – 9.8	5.3 – 9	4.5 – 9	4 – 7.6	4 – 7.3	4 – 7	3.6 – 6.4	3.6 – 6.3	3.6 – 6.0	3.6 – 5.8	3.6 – 5.3	3.6 – 5
	N/A	10 – 14	10 – 14	10 – 14	8 – 13.8	7 – 12.8																
318	N/A	5.5 – 7	5.5 – 7	5.5 – 7	4.7 – 6.5	4.4 – 6	4 – 7	4 – 6.2	4 – 11.5	5.7 – 10.5	5 – 9.5	4.5 – 8.6	4 – 8.2	4 – 7.2	4 – 7	4 – 8	3.6 – 6.5	3.6 – 6.2	3.6 – 6	3.6 – 5.5	3.6 – 5	3.6 – 5
	N/A	11 – 14	11 – 14	11 – 14	8 – 13.2	7 – 12.2																
323.9	N/A	5.5 – 7	5.5 – 7	5.5 – 7	5.5 – 7	5 – 6.3	4.4 – 7	4 – 6.2	4 – 11.5	6.6 – 11	5.7 – 9.6	5.3 – 8.6	4.5 – 8.3	4 – 7.8	4 – 7.2	4 – 7	3.6 – 6.5	3.6 – 6.2	3.6 – 6	3.6 – 5.6	3.6 – 5	3.6 – 4.5
	N/A	11 – 14	11 – 14	11 – 14	11 – 14	10 – 12.6																



TUBE LENGTHS FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE FROM VM (PRODUCED FROM CAST BLOOM) IN METERS

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)																					
	6.3	7.1	8.0	8.8	10.0	11.0	12.5	14.2	16.0	17.5	20.0	22.2	25.0	28.0	30.0	32 (34)	36 (38)	40.0	45.0	50.0	55.0	60.0
330	N/A	N/A	5.5 – 7	5.5 – 7	5.5 – 7	5 – 7	4.4 – 6.5	4 – 6.2	4 – 11	6.6 – 10.7	5.7 – 9.6	5.3 – 8.6	4.5 – 8	4 – 7.6	4 – 7.5	4 – 7	3.6 – 6.4	3.6 – 6.2	3.6 – 6	3.6 – 5.6	3.6 – 4.9	3.6 – 4.6
			11 – 14	11 – 14	11 – 14	10 – 14	8.8 – 13	7.7 – 12.5														
339.7	N/A	N/A	4.5 – 7	4.5 – 7	4 – 6.7	4 – 7	4.3 – 6	4 – 6	4 – 5.5	6.5 – 10.8	5.7 – 9.5	5.3 – 8.4	4.5 – 8	4 – 7.5	4 – 7.2	4 – 6.8	4 – 6.3	3.6 – 6	3.6 – 5.8	3.6 – 5.3	3.6 – 4.8	3.5 – 4.4
			9 – 14	9 – 14	8 – 13.5	8 – 14	8.7 – 12	7.5 – 12	6.5 – 11													
343	N/A	N/A	4.5 – 7.1	4.5 – 7	4 – 7	3.8 – 7	4.0 – 14.0	4 – 14.0	4.14.0	4.5 – 10.9	4.1 – 13.3	3.7 – 12.4	3.6 – 11.0	3.6 – 9.9	3.6 – 9.5	3.6 – 8.9	3.6 – 8.0	3.6 – 7.2	3.6 – 6.4	3.6 – 5.8	3.6 – 5.3	3.5 – 4.9
			9 – 14	9 – 14	8 – 14	7.5 – 14																
355.6	N/A	N/A	N/A	4.6 – 7.0	4.0 – 7.0	3.6 – 7	4.0 – 14.0	4.0 – 14.0	4.0 – 13.7	4.3 – 12.5	4.0 – 12.4	3.6 – 11.1	3.6 – 9.9	3.6 – 8.8	3.6 – 9.1	3.6 – 8.5	3.6 – 7.6	3.6 – 6.8	3.6 – 6.1	3.6 – 5.5	3.6 – 5.0	3.5 – 4.6
				9.1 – 14.0	7.9 – 14.0	7.2 – 14.0																
365	N/A	N/A	N/A	N/A	3.9 – 14.0	4.0 – 14.0	4.0 – 14.0	4.0 – 13.5	4.0 – 13.2	4.0 – 12.1	3.8 – 11.9	3.6 – 10.7	3.6 – 9.5	3.6 8.5	3.6 8.7	3.6 – 8.2	3.6 – 7.3	3.6 – 6.6	3.6 – 5.8	3.6 – 5.3	3.6 – 4.8	3.6 – 4.4
368	N/A	N/A	N/A	N/A	3.9 – 14.0	4.0 – 14.0	4.0 – 14.0	4.0 – 13.5	4.0 – 13.2	4.0 – 12.1	3.8 – 11.9	3.6 – 10.7	3.6 – 9.5	3.6 – 8.5	3.6 – 8.7	3.6 – 8.2	3.6 – 7.3	3.6 – 6.6	3.6 – 5.8	3.6 – 5.3	3.6 – 4.8	3.3 – 4.4
377	N/A	N/A	N/A	N/A	3.7 – 14.0	4.0 – 14.0	4.0 – 14.0	4.0 – 13.1	4.0 – 11.6	4.0 – 10.6	3.7 – 10.9	3.6 – 9.8	3.6 – 9.2	3.6 – 8.2	3.6 – 8.5	3.6 – 8.0	3.6 – 7.1	3.6 – 6.4	3.6 – 5.7	3.6 – 5.2	3.4 – 4.6	3.2 – 4.3
381	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4 – 8.3	4 – 9.6	4 – 8.7	4 – 8.4	4 – 7.5	3.6 – 7.2	3.6 – 6.3	3.6 – 5.7	3.6 – 5.2	3.6 – 4.7	3.6 – 4.2	3 – 4	3 – 3.8
394	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4 – 7.8	4 – 9.2	4 – 8.3	4 – 8	4 – 7.2	3.6 – 6.8	3.6 – 6	3.6 – 5.4	3.6 – 5	3.6 – 4.5	3.6 – 4	3 – 3.8	3 – 3.6
406.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4 – 9	4 – 8.5	4 – 8	4 – 7.2	3.6 – 6.8	3.6 – 6	3.6 – 5.4	3.6 – 5	3.6 – 4	3.6 – 4	3 – 3.8	3 – 3.6

VM - Big Mannesmann rolling mill

Production from alloy steels (15128, 16Mo3, 42CrMo4): 168.3 - 273 mm - from WT 10 mm / 279 - 323.9 mm - from WT 12.5 mm / 330 - 355.6 mm - from WT 14.2 mm / 368 - 377 mm - from WT 17.5 mm / 381 - 406.4 mm - from WT 20 mm

MINIMUM AMOUNT FOR ROLLING 70 T

PRODUCTION POSSIBLE ONLY FROM NON-ALLOYED STEELS

COMPANY
PROFILE

PRODUCTION
SCHEME

PHOTOS
FROM THE
PRODUCTION

PRODUCT
ASSORTMENT

NON DESTRUCTIVE
TESTING

CERTIFICATES

TESTING

CONTACT



TUBE LENGTHS FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE FROM MM IN METERS

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)																			
	5	5.6	6.3	7.1	8	8.8	10	11	12.5	14.2	16	17.5	20	22.2	25	28	30	32	34	36
60.3	N/A	N/A	9.5-11	8.5-11	7.5-11	7-11	6.5-10	6-9.5	5.3-8.5	5-7.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			4.8-5.5	4.3-5.5	4-5.5	4-5.5	4-5	4-4.7	4-4.2											
63.5	N/A	N/A	9-11	8-11	7-11	6.5-11	5.5-9.5	5-9	4.5-8	4-7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			4.5-5.5	4-5.5	4-5.5	4-5.5	4-4.7	4-4.5												
70	10.5-12	9.5-12	8.5-12	7.5-12	6.5-12	6-12	5-12	4.5-11.5	4-10.5	3.5-9	3.5-8.5	3-8	3-7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5.3-6	4-6	4-6	4-6	4-6	4-6	4-5	4-4.5												
72	10-12	8.3-12	8-12	7-12	6-12	5.5-12	5-12	4.5-11	4-10	3.5-9	3-8	3-7.5	3-6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5-6	4-6	4-6	4-6	4-6	4-5.5	4-5	4-4.5												
73	10-12	8-12	7.8-12	7-12	6-12	5.5-12	4.5-11.5	4-10.5	3.5-9.5	3.5-8.5	3-7.5	3-7	3-6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5-6	4-6	4-6	4-6	4-6	4-5.5	4-4.5													
74	10.5-12	8-12	7.5-12	7-12	6-12	5.5-12	4.5-11.5	4-10.5	3.5-9.5	3.5-8.5	3-7.5	3-7	3-6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5-6	4-6	4-6	4-6	4-6	4-5.5	4-4.5													
76.1 (76)	9.5-12	8.5-12	7.5-12	6.5-12	6-12	5-12	4.5-11.5	4-10.5	3.5-9	3-8	3-7.5	3-7	3-6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4.8-6	4-6	4-6	4-6	4-6	4-5	4-4.5													
82.5	8.5-12	7.5-12	6.5-12	6-12	5-12	4.5-11.5	4-10	3.5-9.5	3-8	3-7	3-6.5	3-6	3-5.5	3-5	N/A	N/A	N/A	N/A	N/A	N/A
	4.3-6	4-6	4-6	4-6	4-5	4-4.5														
88.9 (89)	12	10.5-12	9-12	8-12	7-12	6.5-12	6-12	5.5-12	5-11.5	4.5-10.5	4-9.5	3.5-8.5	3-8	3-7	3-6.5	N/A	N/A	N/A	N/A	N/A
	4-6	4-6	4-6	4-6	4-4.5															
95	11-12	9.5-12	8.5-12	7.5-12	6.5-12	6-12	5.5-12	5-12	4.5-10.5	4-9.5	3.5-8.5	3-8	3-7	3-6.5	3-6	N/A	N/A	N/A	N/A	N/A
	4-6	4-5.5	4-5.5	4-5																
101.6 (102)	10-12	9-12	8-12	7-12	6-12	5.5-12	5-12	4.5-12	4-12	3.5-11	3-9.5	3-9	3-8	3-7	3-6.5	N/A	N/A	N/A	N/A	N/A
	5-6	4-6	4-6	4-6	4-6	4-5.5	4-5	4-4.5												
108	9.5-12	8.5-12	7-12	6.5-12	5.5-12	5-12	4.5-12	4-12	3.5-12	3-11	3-10	3-9	3-8	3-7.5	3-7	3-6	N/A	N/A	N/A	N/A
	4.8-6	4-6	4-6	4-6	4-5.5	4-5	4-4.5													
114.3 (114)	9-12	8-12	7-12	6-12	5-12	4.5-12	4-12	4-12	3.5-11.5	3-10.5	3-9.5	3-8.5	3-7.5	3-7	3-6	3-5.5	3-5.0	N/A	N/A	N/A
	4.5-6	4-6	4-6	4-6	4-5	4-4.5														



TUBE LENGTHS FOR STRUCTURES, PRESSURE VESSELS, PRESSURE EQUIPMENT, ENERGY ENGINEERING AND GENERAL USE FROM MM IN METERS

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)																			
	5	5.6	6.3	7.1	8	8.8	10	11	12.5	14.2	16	17.5	20	22.2	25	28	30	32	34	36
121	8-12	7.3-12	6.5-12	5.5-12	5-12	4.5-12	4-12	3.5-12	3-11	3-9.5	3.5-8.5	3.5-8	3-7	3-6.5	3-5.5	3-5	3-5	3-4.5	N/A	N/A
	4-6	4-6	4-6	4-5.5	4-5	4-4.5														
127	11-12	10-12	8.5-12	7.5-12	6.5-12	6-12	5.5-12	5-11.5	4.5-10.5	4-9	3.5-8	3-7.5	3-6.5	3-6.5	3-6.0	3-5.5	3-5	3-5	N/A	N/A
	5.5-6	4.3-6	4.3-6	4-6	4-6	4-6	4-5.5	4-5	4-4.5											
133	N/A	N/A	8-12	7-12	6-12	5.5-12	5-12	4.5-11	4-10	3.5-8.5	3-7.5	3-7	3-6	3-6.0	3-5.5	3-5.0	3-4.5	3-4.5	N/A	N/A
			4-6	4-6	4-6	4-5.5	4-5	4-4.5												
139.7 (140)	N/A	N/A	7.5-12	6.5-12	6-12	5.5-12	5-11.5	4.5-10.5	4-9	3.5-8	3-7	3-6.5	3-6.0	3-5.5	3-5.0	3-4.5	3-4.5	3-4.0	N/A	N/A
			4-6	4-6	4-6	4-5.5	4-5	4-4.5												
146.147	N/A	N/A	7-12	6-12	5.5-12	5-12	4.5-11	4-10	3.5-9	3-7.5	3-7	3-6.5	3-6.0	3-5.5	3-5.0	3-4.5	3-4.0	3-4.0	2-3.5	2-3.5
			4-6	4-6	4-5.5	4-5	4-4.5													
152.4 (152)	N/A	N/A	7-12	6-12	5-12	4.5-11.5	4-10	4-9	3.5-8	3-7	3-6.5	3-6.5	3-5.5	3-5.0	3-4.5	3-4.0	3-4.0	2-3.5	2-3.5	2-3.5
			4-6	4-6	4-5	4-4.5														
159	N/A	N/A	6-12	5.5-12	5-8	4.5-7.5	3.5-8.5	3.5-8.5	3-7.5	3-7	3-6	3-6.0	3-5.5	3-5.0	3-4.5	3-4.0	3-3.5	2-3.5	2-3.5	2-3.5
			4-6	4-5.5																

MM - Small Mannesmann rolling mill

Production from alloy steels (15 020, 15 121, 15128, 15 313, 16Mo3, 13CrMo4-5, 10CrMo9-10, 14MoV6-3, 34CrMo4, 42CrMo4) only for WT ≥ 10 mm

PRODUCTION OF WT 5 AND 5.6 MM IS POSSIBLE ONLY BY AGREEMENT

MINIMUM AMOUNT FOR ROLLING 50 T

EXACT LENGTHS 0.5 M SHORTER THAN MAXIMUM LENGTHS

COMPANY
PROFILE

PRODUCTION
SCHEME

PHOTOS
FROM THE
PRODUCTION

PRODUCT
ASSORTMENT

NON DESTRUCTIVE
TESTING

CERTIFICATES

TESTING

CONTACT



PRODUCT ASSORTMENT

LINE PIPE

➤
COMPANY
PROFILE

➤
PRODUCTION
SCHEME

➤
PHOTOS
FROM THE
PRODUCTION

➤
PRODUCT
ASSORTMENT

➤
NON DESTRUCTIVE
TESTING

➤
CERTIFICATES

➤
TESTING

➤
CONTACT



LINE PIPE

STANDARD	HEAT TREATMENT	GRADE
API 5L	+N	B PSL1, X42 PSL1, X52 PSL1, X60 PSL1, BN PSL2, X42N PSL2, X52N PSL2 ²⁾
	+QT	X60 PSL1, X60Q PSL2, X65Q PSL2, X70Q PSL2
ISO 3183	+N	L245 PSL1, L290 PSL1, L360 PSL1, L415 PSL1, L245N PSL2, L290N PSL2, L360N PSL2 ²⁾
	+QT	L415 PSL1, L415Q PSL2, L450Q PSL2, L485Q PSL2
ISO 3183-A	+N	L245NE PSL2 ¹⁾ , L290NE PSL2 ¹⁾ , L360NE PSL2 ²⁾
	+QT	L415QE PSL2, L450QE PSL2, L485QE PSL2
Heat treatment: +N - normalized, +QT - quenched and tempered		
¹⁾ Only by agreement - min. quantity (net production from 2 heats)		
²⁾ Only wall thicknesses ≤ 36 mm		

FINISHING OF PIPE ENDS

Pipe ends are cold cut perpendicular to the longitudinal axis of the tube. Pipes with a bevel can be supplied by agreement. For pipes with an outer diameter ≥ 168.3 mm with a bevel according to API 5L – Fig. 1, or according to ASME B16.25 Fig. 2 for wall thicknesses ≤ 22 mm or according to ASME B16.25 Fig. 3 for wall thicknesses > 22 mm. For pipes with an outer diameter ≤ 159 mm with a bevel according to API 5L Fig. 1.

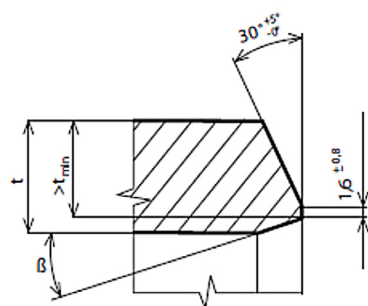


Fig. 1

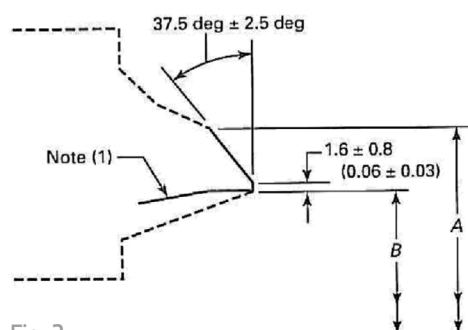


Fig. 2

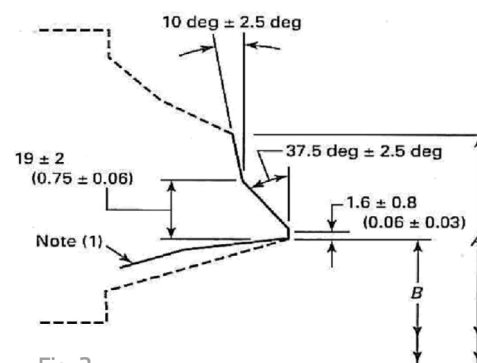


Fig. 3



LINE PIPE

NPS	OUTSIDE DIAMETER	WALL THICKNESS		WEIGHT	STD / XS / XXS	SCHEDULE NO.	DN	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT	PRODUCTION LENGTH	
(inch)	(inch)	(inch)		(lb/ft)				(mm)	(mm)	(kg/m)	(m)	
5	5.563	0.258		14.63	STD	40	125	141.3	6.55	21.77	3.5-6	7-12
5	5.563	0.281		15.87			125	141.3	7.14	23.62	3.5-6	7-12
5	5.563	0.312		17.51			125	141.3	7.92	26.05	3-6	6-12
5	5.563	0.344		19.19			125	141.3	8.74	28.57	5-12	
5	5.563	0.375		20.80	XS	80	125	141.3	9.53	30.97	5-11	
5	5.563	0.500		27.06		120	125	141.3	12.70	40.28	3.5-9	
5	5.563	0.625		32.99		160	125	141.3	15.88	49.12	3.5-7	
5	5.563	0.750		38.59	XXS		125	141.3	19.05	57.43	3.5-6	
6	6.625	0.250		17.04			150	168.3	6.35	25.36	6-7	12-14
6	6.625	0.280		18.99	STD	40	150	168.3	7.11	28.26	5.5-7	11-14
6	6.625	0.312		21.06			150	168.3	7.92	31.33	5-7	10-14
6	6.625	0.344		23.10			150	168.3	8.74	34.39	5-7	10-14
6	6.625	0.375		25.05			150	168.3	9.53	37.31	4-7	8-14
6	6.625	0.432		28.60	XS	80	150	168.3	10.97	42.56	4-7	8-14
6	6.625	0.500		32.74			150	168.3	12.70	48.73	6.8-14	
6	6.625	0.562		36.43		120	150	168.3	14.27	54.21	6-14	
6	6.625	0.625		40.09			150	168.3	15.88	59.69	5.2-14	
6	6.625	0.719		45.39		160	150	168.3	18.26	67.57	4.5-11.5	
6	6.625	0.750		47.10			150	168.3	19.05	70.12	4.5-11.5	
6	6.625	0.864		53.21	XXS		150	168.3	21.95	79.22	4.3-8	
6	6.625	0.875		53.78			150	168.3	22.23	80.08	4.3-8	
8	8.625	0.250		22.38		20	200	219.1	6.35	33.32	5-7	10-14
8	8.625	0.277		24.72		30	200	219.1	7.04	36.82	5-7	10-14
8	8.625	0.312		27.73			200	219.1	7.92	41.25	5-7	10-14

WITHOUT TUBE ENDS CALIBRATION AND WITHOUT API MONOGRAM

LIMITED QUANTITY BY ARRANGEMENT



COMPANY
PROFILE



PRODUCTION
SCHEME



PHOTOS
FROM THE
PRODUCTION



PRODUCT
ASSORTMENT



NON DESTRUCTIVE
TESTING



CERTIFICATES



TESTING



CONTACT



LINE PIPE

NPS	OUTSIDE DIAMETER	WALL THICKNESS		WEIGHT	STD / XS/ XXS	SCHEDULE NO.	DN	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT	PRODUCTION LENGTH	
(inch)	(inch)	(inch)		(lb/ft)				(mm)	(mm)	(kg/m)	(m)	
8	8.625	0.322		28.58	STD	40	200	219.1	8.18	42.55	5-7	10-14
8	8.625	0.344		30.45			200	219.1	8.74	45.34	4.8-7	9.7-14
8	8.625	0.375		33.07			200	219.1	9.53	49.25	4.2-7	8.5-14
8	8.625	0.406		35.67		60	200	219.1	10.31	53.09	4.2-7	8.5-14
8	8.625	0.438		38.33			200	219.1	11.13	57.08	4-7	8-14
8	8.625	0.500		43.43	XS	80	200	219.1	12.70	64.64	6-14	
8	8.625	0.562		48.44			200	219.1	14.27	72.08	5.5-12.5	
8	8.625	0.594		51.00		100	200	219.1	15.09	75.92	4.5-11.7	
8	8.625	0.625		53.45			200	219.1	15.88	79.59	4.5-11.2	
8	8.625	0.719		60.77		120	200	219.1	18.26	90.44	4.5-10	
8	8.625	0.750		63.14			200	219.1	19.05	93.98	4.5-9.8	
8	8.625	0.812		67.82		140	200	219.1	20.62	100.93	4.5-9.2	
8	8.625	0.875		72.49	XXS		200	219.1	22.23	107.93	4-8.7	
8	8.625	0.906		74.76		160	200	219.1	23.01	111.27	4-8.5	
8	8.625	1.000		81.51			200	219.1	25.40	121.33	4-8	
10	10.750	0.250		28.06		20	250	273	6.35	41.76	6-7	12.5-14
10	10.750	0.279		31.23			250	273	7.09	46.49	5.5-7	11-14
10	10.750	0.307		34.27		30	250	273	7.80	51.01	5-7	10-14
10	10.750	0.344		38.27			250	273	8.74	56.96	4.3-7	9.7-14
10	10.750	0.365		40.52	STD	40	250	273	9.27	60.29	4.3-7	9.7-14
10	10.750	0.438		48.28			250	273	11.13	71.88	4-7	8-14
10	10.750	0.500		54.79	XS	60	250	273	12.70	81.53	6.8-14	
10	10.750	0.562		61.21			250	273	14.27	91.05	6-13.6	
10	10.750	0.594		64.49		80	250	273	15.09	95.98	5-13	

WITHOUT TUBE ENDS CALIBRATION AND WITHOUT API MONOGRAM

LIMITED QUANTITY BY ARRANGEMENT

COMPANY
PROFILE

PRODUCTION
SCHEME

PHOTOS
FROM THE
PRODUCTION

PRODUCT
ASSORTMENT

NON DESTRUCTIVE
TESTING

CERTIFICATES

TESTING

CONTACT



LINE PIPE

NPS	OUTSIDE DIAMETER	WALL THICKNESS		WEIGHT	STD / XS/ XXS	SCHEDULE NO.	DN	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT	PRODUCTION LENGTH
(inch)	(inch)	(inch)		(lb/ft)				(mm)	(mm)	(kg/m)	(m)
10	10.750	0.625		67.65			250	273	15.88	100.69	5-12.5
10	10.750	0.719		77.10		100	250	273	18.26	114.71	4.3-11.2
10	10.750	0.812		86.26			250	273	20.62	128.34	4.3-10.2
10	10.750	0.844		89.38		120	250	273	21.44	133.01	4-10
10	10.750	0.875		92.37			250	273	22.23	137.48	4-9.7
10	10.750	0.938		98.39			250	273	23.83	146.43	4-9.2
10	10.750	1.000		104.23	XXS	140	250	273	25.40	155.10	4-9
10	10.750	1.125		115.75		160	250	273	28.58	172.27	4-8.2
10	10.750	1.250		126.94			250	273	31.75	188.90	4-7.7
12	12.750	0.281		37.46			300	323.8	7.14	55.76	5.5-7 11-14
12	12.750	0.312		41.48			300	323.8	7.92	61.70	5.5-7 11-14
12	12.750	0.330		43.81		30	300	323.8	8.38	65.19	5.5-7 11-14
12	12.750	0.344		45.62			300	323.8	8.74	67.91	5.5-7 11-14
12	12.750	0.375		49.61	STD		300	323.8	9.53	73.86	5.5-7 11-14
12	12.750	0.406		53.57		40	300	323.8	10.31	79.71	5.5-7 11-14
12	12.750	0.438		57.65			300	323.8	11.13	85.82	5-7 10-12.6
12	12.750	0.500		65.48	XS		300	323.8	12.70	97.44	8.8-14
12	12.750	0.562		73.22		60	300	323.8	14.27	108.93	7.7-12.5
12	12.750	0.625		81.01			300	323.8	15.88	120.59	4-11.5
12	12.750	0.688		88.71		80	300	323.8	17.48	132.05	6.6-11
12	12.750	0.750		96.21			300	323.8	19.05	143.17	5.7-9.6
12	12.750	0.812		103.63			300	323.8	20.62	154.17	5.7-9.6
12	12.750	0.844		107.42		100	300	323.8	21.44	159.87	5.3-8.6
12	12.750	0.875		111.08			300	323.8	22.23	165.33	5.3-8.6

WITHOUT TUBE ENDS CALIBRATION AND WITHOUT API MONOGRAM

LIMITED QUANTITY BY ARRANGEMENT

COMPANY
PROFILE

PRODUCTION
SCHEME

PHOTOS
FROM THE
PRODUCTION

PRODUCT
ASSORTMENT

NON DESTRUCTIVE
TESTING

CERTIFICATES

TESTING

CONTACT



LINE PIPE											
NPS	OUTSIDE DIAMETER	WALL THICKNESS		WEIGHT	STD / XS/ XXS	SCHEDULE NO.	DN	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT	PRODUCTION LENGTH
(inch)	(inch)	(inch)		(lb/ft)				(mm)	(mm)	(kg/m)	(m)
12	12.750	0.938		118.44			300	323.8	23.83	176.29	4.5-8.3
12	12.750	1.000		125.61	XXS	120	300	323.8	25.40	186.92	4.5-8.3
12	12.750	1.062		132.69			300	323.8	26.97	197.43	4-8.3
12	12.750	1.125		139.81		140	300	323.8	28.58	208.08	4-7.8
12	12.750	1.250		153.67			300	323.8	31.75	228.68	4-7
12	12.750	1.312		160.42		160	300	323.8	33.32	238.69	4-7
14	14	0.344		50.22			350	355.6	8.74	74.76	4.6-7 9.1-14
14	14	0.375		54.62	STD	30	350	355.6	9.53	81.33	4-7 7.9-14
14	14	0.406		59.00			350	355.6	10.31	87.79	4-7 7.9-14
14	14	0.438		63.50		40	350	355.6	11.13	94.55	3.6-7 7.2-14
14	14	0.469		67.84			350	355.6	11.91	100.95	4.2-14
14	14	0.500		72.16	XS		350	355.6	12.70	107.40	4.2-14
14	14	0.562		80.73			350	355.6	14.27	120.12	5.4-14
14	14	0.594		85.13		60	350	355.6	15.09	126.72	5.2-13.8
14	14	0.625		89.36			350	355.6	15.88	133.04	4.8-13.7
14	14	0.688		97.91			350	355.6	17.48	145.76	4.3-12.5
14	14	0.750		106.23		80	350	355.6	19.05	158.11	4-12.4
14	14	0.812		114.48			350	355.6	20.62	170.34	4-12.4
14	14	0.875		122.77			350	355.6	22.23	182.76	3.6-11.1
14	14	0.938		130.98		100	350	355.6	23.83	194.98	3.6-10.4
14	14	1.000		138.97			350	355.6	25.40	206.84	3.6-9.6
14	14	1.062		146.88			350	355.6	26.97	218.58	3.6-9.4
14	14	1.094		150.93		120	350	355.6	27.79	224.66	3.6-9.1
14	14	1.125		154.84			350	355.6	28.58	230.49	3.6-8.7

WITHOUT TUBE ENDS CALIBRATION AND WITHOUT API MONOGRAM

LIMITED QUANTITY BY ARRANGEMENT



LINE PIPE

NPS	OUTSIDE DIAMETER	WALL THICKNESS		WEIGHT	STD / XS/ XXS	SCHEDULE NO.	DN	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT	PRODUCTION LENGTH
(inch)	(inch)	(inch)		(lb/ft)				(mm)	(mm)	(kg/m)	(m)
14	14	1.250		170.37		140	350	355.6	31.75	253.58	3.6-8.5
14	14	1.406		189.29		160	350	355.6	35.71	281.72	3.6-7.6
14	14	2.000		256.56			350	355.6	50.80	381.85	3.6-5
14	14	2.125		269.76			350	355.6	53.98	401.52	3.6-4.7
14	14	2.200		277.51			350	355.6	55.88	413.04	3.6-4.5
14	14	2.500		307.34			350	355.6	63.50	457.43	3.5-4.2
16	16	0.812		131.84			400	406.4	20.62	196.18	4-9
16	16	0.844		136.74		80	400	406.4	21.44	203.54	4-8.5
16	16	0.875		141.48			400	406.4	22.23	210.61	4-8.5
16	16	0.938		151.03			400	406.4	23.83	224.83	4-8
16	16	1.000		160.35			400	406.4	25.40	238.66	4-8
16	16	1.031		164.98		100	400	406.4	26.19	245.57	4-7.5
16	16	1.062		169.59			400	406.4	26.97	252.37	4-7.2
16	16	1.125		178.89			400	406.4	28.58	266.30	4-7.2
16	16	1.188		188.11			400	406.4	30.18	280.01	4-6.8
16	16	1.219		192.61		120	400	406.4	30.96	286.66	4-6.4
16	16	1.250		197.10			400	406.4	31.75	293.35	4-6
16	16	1.438		223.85		140	400	406.4	36.53	333.21	4-5.4
16	16	1.594		245.48		160	400	406.4	40.49	365.38	4-5

NPS - Nominal Pipe Size

DN - Nominal Diameter

ST - Standard, XS - Extra-Strong, XXS - Double Extra-Strong

WITHOUT TUBE ENDS CALIBRATION AND WITHOUT API MONOGRAM

LIMITED QUANTITY BY ARRANGEMENT


COMPANY
PROFILE
PRODUCTION
SCHEME
PHOTOS
FROM THE
PRODUCTION
PRODUCT
ASSORTMENT
NON DESTRUCTIVE
TESTING
CERTIFICATES
TESTING
CONTACT



PRODUCT ASSORTMENT

CASING

➤
COMPANY
PROFILE

➤
PRODUCTION
SCHEME

➤
PHOTOS
FROM THE
PRODUCTION

➤
PRODUCT
ASSORTMENT

➤
NON DESTRUCTIVE
TESTING

➤
CERTIFICATES

➤
TESTING

➤
CONTACT



CASING

Casing is seamless, hot rolled steel pipe provided with special right-hand threads on both ends as required according to API Spec. 5B, with couplings and thread protectors. Production, inspection, deliveries and dimensions are determined by technical delivery conditions according to API Spec. 5CT and EN ISO 11 960.

STEEL GRADES

We supply casing with couplings in grades H40, J55, K55, N80 Typ 1 and Typ Q and L 80 Typ 1 and P110

DIMENSIONS OF CASING AND COUPLINGS

Dimensional standard and technical delivery conditions: API Spec. 5CT

Threads: API Spec. 5B

PERMISSIBLE VARIATIONS

Outside diameter +1 % / -0.5%

Wall thickness -12.5 %, max. wall thickness is limited by weight

Tolerances of weight of individual tubes +6.5 % / -3.5 %

LENGTHS

Casings are supplied in Ranges

Range	I.	II.	III.
	(m)	(m)	(m)
Lengths of tubes	4.88 - 7.62	7.62 - 10.36	10.36 - 12.80

SURFACE AND DELIVERY

Tube surface, thread protection, pipe designation, inspection, testing and acceptance requirements are specified by API Spec. 5CT



PIPE													COUPLING				
OUTSIDE DIAMETER	LABELS	WALL THICKNESS	INSIDE DIAMETER	DRIFT DIAMETER	NOMINAL MASS	MAX. LENGTH	MASS (PLAIN -END)	GRADE	THREAD TYPE			TEST PRESSURE		OUTSIDE DIAMETER	MIN. LENGTH	MASS	
									SC	LC	BC						
inch		inch	inch	inch	lb/ft	ft	lb/ft					psi	MPa	inch	inch	lb	
mm		mm	mm	mm	kg/m	m	kg/m							mm	mm	kg	
7	23.00	0.317	6.366	6.241	23.30	max. 42.00	22.65	J55, K55	x	x	x	4000	27.5	7.875 200.03	SC = 7.250	SC = 23.98	
177.80		8.05	161.7	158.52	34.67	max. 12.80	33.70	L80	-	x	x	5800	40		SC = 184.15	SC = 10.88	
									N80 Typ 1, Q	-	x	x	5800		40	LC = 9.000	LC = 30.69
26.00	0.362	6.276	6.151	26.30	max. 42.00	25.69	J55, K55	x	x	x	4600	31.5	LC = 228.60		LC = 13.92		
	9.19	159.42	156.24	39.14	max. 12.80	38.21	L80	-	x	x	6600	45.5	BC = 10.000		BC = 30.82		
								N80 Typ 1, Q	-	x	x	6600	45.5		BC = 254.00	BC = 13.98	
29.00								P110	-	x	x	9100	62.5				
	0.408	6.184	6.059	29.30	max. 42.00	28.75	L80	-	x	x	7500	51.5					
	10.36	157.08	153.90	43.60	max. 12.80	42.78	N80 Typ 1, Q	-	x	x	7500	51.5					
32.00								P110	-	x	x	10000	69				
	0.453	6.094	5.969	32.20	max. 42.00	31.70	L80	-	x	x	8300	57					
	11.51	154.78	151.6	47.92	max. 12.80	47.20	N80 Typ 1, Q	-	x	x	8300	57					
35.00								P110	-	x	x	10000	69				
	0.498	6.004	5.879	35.00	max. 42.00	34.61	L80	-	x	x	9100	63					
	12.65	152.50	149.32	52.09	max. 12.80	51.52	N80 Typ 1, Q	-	x	x	9100	63					
38.00								P110	-	x	x	10000	69				
	0.540	5.920	5.795	37.70	max. 42.00	37.29	L80	-	x	x	9900	68					
	13.72	150.36	147.18	56.10	max. 12.80	55.52	N80 Typ 1, Q	-	x	x	9900	68					
								P110	-	x	x	10000	69				
7 5/8	26.40	0.328	6.969	6.844	26.40	max. 42.00	25.59	J55, K55	x	x	x	3800	26		8.500 215.90	SC = 7.500	SC = 26.80
193.68		8.33	177.02	173.84	39.29	max. 12.80	38.08	L80	-	x	x	5500	38			SC = 190.50	SC = 12.16
									N80 Typ 1, Q	-	x	x	5500	38		LC = 9.250	LC =34.15
29.70	0.375	6.875	6.750	29.70	max. 42.00	29.06	L80	-	x	x	6300	43.5	LC = 234.85	LC = 15.63			
	9.52	174.64	171.46	44.20	max. 12.80	43.24	N80 Typ 1, Q	-	x	x	6300	43.5	BC = 10.375	BC = 34.88			
								P110	-	x	x	8700	59.5	BC = 263.52		BC = 15.82	
33.70								P110	-	x	x	9900	68.5				
	0.430	6.765	6.640	33.70	max. 42.00	33.07	L80	-	x	x	7200	50					
	10.92	171.84	168.66	50.15	max. 12.80	49.22	N80 Typ 1, Q	-	x	x	7200	50					
39.00								P110	-	x	x	9900	68.5				
	0.500	6.625	6.500	39.00	max. 42.00	38.08	L80	-	x	x	8400	58					
	12.70	168.28	165.10	58.04	max. 12.80	56.68	N80 Typ 1, Q	-	x	x	8400	58					
								P110	-	x	x	10000	69				



PIPE										COUPLING							
OUTSIDE DIAMETER	LABELS	WALL THICKNESS	INSIDE DIAMETER	DRIFT DIAMETER	NOMINAL MASS	MAX. LENGTH	MASS (PLAIN -END)	GRADE	THREAD TYPE			TEST PRESSURE		OUTSIDE DIAMETER	MIN. LENGTH	MASS	
									SC	LC	BC						
inch		inch	inch	inch	lb/ft	ft	lb/ft					psi	MPa	inch	inch	lb	
mm		mm	mm	mm	kg/m	m	kg/m							mm	mm	kg	
9 5/8	32.30 244.48	0.312	9.001	8.845	32.30	max. 42.00	31.06	H40	x	-	-	2100	14.5	10.625	SC = 7.750	SC = 39.36	
244.48		7.92	228.60	224.66	48.07	max. 12.80	46.20							269.88	SC = 196.85	SC = 17.85	
		36.00	0.352	8.921	8.765	36.00	max. 42.00	34.89	H40	x	-	-	2300		16	LC = 10.500	LC = 55.72
40.00		8.94	226.60	222.63	53.57	max. 12.80	51.93	J55, K55	x	x	x	3200	22		LC = 266.70	LC = 25.45	
		0.395	8.835	8.679	40.00	max. 42.00	38.97	J55, K55	x	x	x	3600	25		BC = 10.625	BC = 51.05	
		10.03	224.40	220.45	59.53	max. 12.80	57.99	L80	-	x	x	5300	36		BC = 269.88	BC = 23.16	
		0.395	8.835	8.750 ^{a)}	40.00	max. 42.00	38.97	N80 Typ 1, Q	-	x	x	5300	36				
43.50		10.03	224.40	222.25 ^{a)}	59.53	max. 12.80	57.99										
		0.435	8.755	8.599	43.50	max. 42.00	42.73	L80	-	x	x	5800	40				
		11.05	222.40	218.41	64.74	max. 12.80	63.61	N80 Typ 1, Q	-	x	x	5800	40				
47.00								P110	-	x	x	8000	55				
		0.472	8.681	8.525	47.00	max. 42.00	46.18	L80	-	x	x	6300	43.5				
		11.99	220.50	216.54	69.94	max. 12.80	68.75	N80 Typ 1, Q	-	x	x	6300	43.5				
								P110	-	x	x	8600	59.5				
53.50		0.545	8.535	8.379	53.50	max. 42.00	52.90	L80	-	x	x	7200	50				
		13.84	216.80	212.83	79.62	max. 12.80	78.72	N80 Typ 1, Q	-	x	x	7200	50				
								P110	-	x	x	10000	68.5				
10 3/4	40.50 273.05	0.350	10.050	9.894	40.50	max. 42.00	38.91	J55, K55	x	-	x	2100	15	11.750	SC = 8.000	SC = 45.38	
273.05		8.89	255.30	251.31	60.27	max. 12.80	57.91						298.45	SC = 203.20	SC = 20.58		
		45.50	0.400	9.950	9.794	45.50	max. 42.00	44.26	J55, K55	x	-	x		2500	17	BC = 10.625	BC = 56.74
51.00		10.16	252.70	248.77	67.71	max. 12.80	65.87							BC = 269.88	BC = 25.74		
		0.450	9.850	9.694	51.00	max. 42.00	49.55	J55, K55	x	-	x	2800		19			
		11.43	250.20	246.23	75.90	max. 12.80	73.75	L80	x	-	x	5400		37			
								N80 Typ 1, Q	x	-	x	5400		37			
55.50								P110	x	-	x	7400		51			
		0.495	9.760	9.604	55.50	max. 42.00	54.26	L80	x	-	x	5900		40.5			
		12.57	247.90	243.94	82.59	max. 12.80	80.75	N80 Typ 1, Q	x	-	x	5900		40.5			
								P110	x	-	x	8100		56			



PIPE										COUPLING						
OUTSIDE DIAMETER	LABELS	WALL THICKNESS	INSIDE DIAMETER	DRIFT DIAMETER	NOMINAL MASS	MAX. LENGTH	MASS (PLAIN -END)	GRADE	THREAD TYPE			TEST PRESSURE		OUTSIDE DIAMETER	MIN. LENGTH	MASS
									SC	LC	BC					
inch		inch	inch	inch	lb/ft	ft	lb/ft					psi	MPa	inch	inch	lb
mm		mm	mm	mm	kg/m	m	kg/m							mm	mm	kg
11 3/4	42.00	0.333	11.084	10.928	42.00	max. 42.00	40.64	H40	x	-	-	1400	9.5	12.750	SC = 8.000	SC = 49.44
298.45		8.46	281.50	277.5	62.50	max. 12.80	62.56								323.85	SC = 203.20
	47.00	0.375	11.000	11.844	47.00	max. 42.00	45.60	J55, K55	x	-	x	2100	14.5		BC = 10.625	BC = 61.80
9.52		279.41	275.44	69.94	max. 12.80	67.83							BC = 269.88		BC = 28.03	
54.00	0.435	10.880	10.724	54.00	max. 42.00	52.62	J55, K55	x	-	x	2400	17				
	11.05	276.40	272.39	80.36	max. 12.80	78.32										
60.00	0.489	10.772	10.616	60.00	max. 42.00	58.87	J55, K55	x	-	x	2700	19				
	12.42	273.60	269.65	89.29	max. 12.80	87.61	L80	x	-	x	5300	37				
							N80 Typ 1, Q	x	-	x	5300	37				
							P110	x	-	x	7300	50.5				
13 3/8	48.00	0.330	12.715	12.559	48.00	max. 42.00	46.02	H40	x	-	-	1200	8	14.375	SC = 8.000	SC = 56.04
		8.38	322.96	318.99	71.43	max. 12.80	68.48						365.12		SC = 203.20	SC = 25.42
	54.50	0.380	12.615	12.459	54.50	max. 42.00	52.79	J55, K55	x	-	x	1900	13		BC = 10.625	BC = 70.03
		9.65	320.42	316.45	81.10	max. 12.80	78.55						BC = 269.88		BC = 31.77	
	61.00	0.430	12.515	12.359	61.00	max. 42.00	59.50	J55, K55	x	-	x	2100	14.5			
		10.92	317.88	313.91	90.78	max. 12.80	88.55									
	68.00	0.480	12.415	12.259	68.00	max. 42.00	66.17	J55, K55	x	-	x	2400	16.5			
		12.19	315.34	311.37	101.19	max. 12.80	98.46	L80	x	-	x	4600	31.5			
								N80 Typ 1, Q	x	-	x	4600	31.5			
								P110	x	-	x	6300	43.5			
	72.00	0.514	12.347	12.191	72.00	max. 42.00	70.67	L80	x	-	x	4900	34			
		13.06	313.60	309.63	107.15	max. 12.80	105.21	N80 Typ 1, Q	x	-	x	4900	34			
								P110	x	-	x	6800	46.5			

^{a)} Special drift test only for grade K55 a J55

SC - short round / LC - long round / BC - Buttress

COMPANY
PROFILE

PRODUCTION
SCHEME

PHOTOS
FROM THE
PRODUCTION

PRODUCT
ASSORTMENT

NON DESTRUCTIVE
TESTING

CERTIFICATES

TESTING

CONTACT



PRODUCT ASSORTMENT

MECHANICAL TUBING ACCORDING TO ASTM A519 AND COUPLING STOCK ACCORDING TO API 5CT

➤
COMPANY
PROFILE

➤
PRODUCTION
SCHEME

➤
PHOTOS
FROM THE
PRODUCTION

➤
PRODUCT
ASSORTMENT

➤
NON DESTRUCTIVE
TESTING

➤
CERTIFICATES

➤
TESTING

➤
CONTACT



MECHANICAL TUBING AND COUPLING STOCK

STANDARD	HEAT TREATMENT	GRADE
ASTM A519 ¹⁾	+N	1026, 4140, 4142
	+A	4140, 4142
API 5CT/EN ISO 11960 ²⁾	+N	J55 PSL1, K55 PSL1, K55 PSL2
	+QT	N80Q PSL1, L80 Typ 1 PSL1, P110 PSL1
Heat treatment: +N - normalized, +A - annealed, +QT - quenched and tempered		
¹⁾ Production only mechanical tubing		
²⁾ Production only coupling stock		



LENGTHS OF MECHANICAL TUBING AND COUPLING STOCK IN METERS

OUTSIDE DIAMETER (inch / mm)		WALL THICKNESS (inch / mm)																																			
		0.500		0.750		0.875		1.000		1.125		1.250		1.375		1.500		1.625		1.750		1.875		2.000		2.125		2.250		2.375		2.500					
		12.7		19.1		22.2		25.4		28.6		31.8		34.9		38.1		41.3		44.5		47.6		50.8		54.0		57.2		60.3		63.5					
inch	mm	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
7.000	177.8	6.8	14	4.5	11.5	4	10.5	4	9.3	4	6.6	4	6	4	6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
7.500	190.5	6	14	4.5	10.3	4	9	4	8.3	4	7.7	4	7.1	4	6.7	4	6.3	4	6.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7.656	194.46	6	14	4.5	10.3	4	9	4	8.3	4	7.7	4	7.1	4	6.7	4	6.3	4	6.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7.875	200.0	6	14	4.5	9.7	4	9	4	8.2	4	7.6	4	7	4	6.5	4	6.2	4	6.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8.000	203.2	6	14	4.5	9.7	4	9	4	8.2	4	7.6	4	7	4	6.5	4	6.2	4	6.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8.500	215.9	6	14	4.5	9.5	4	8.8	4	8	4	7.5	4	6.5	4	6	4	5.5	4	5.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8.625	219.1	6	14	4.5	9.5	4	8.8	4	8	4	7.5	4	6.5	4	6	4	5.5	4	5.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9.000	228.6	6	13	4.5	9.3	4	8.6	4	8	4	7.2	4	6.4	3.6	5.6	3.6	5.2	3.6	5.2	3.6	4.6	3.6	4.2	3.6	4.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
9.500	241.3	6.6	14	4.3	10.8	4	10	4	9.2	4	8.5	4	7.8	3.6	7.3	3.6	6.9	3.6	6.9	3.6	6.5	3.6	6	3.6	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
9.625	244.5	6.7	14	4.3	10.8	4	10	4	9.2	4	8.5	4	7.8	3.6	7.3	3.6	6.9	3.6	6.9	3.6	6.5	3.6	6	3.6	6	3.6	5.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
10.000	254.0	5	14	5	10.6	4	9.8	4	9.2	4	8.5	4	7.8	3.6	7.3	3.6	6.9	3.6	6.9	3.6	6.2	3.6	5.6	3.6	5.6	3.6	5.2	3.6	4.8	3.6	4.8	N/A	N/A	N/A	N/A		
10.500	266.7	6.7	14	4.3	10.5	4	9.8	4	9	4	8.4	4	7.7	3.6	7.2	3.6	6.5	3.6	6.5	3.6	5.8	3.6	5.5	3.6	5.5	3.6	5.3	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
10.625	269.9	6.7	14	4.3	10.5	4	9.8	4	9	4	8.3	4	7.6	3.6	7.2	3.6	6.8	3.6	6.8	3.6	5.8	3.6	5.5	3.6	5.5	3.6	5.3	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
10.750	273.1	6.7	14	4.3	10.5	4	9.8	4	9	4	8.3	4	7.6	3.6	7.2	3.6	6.8	3.6	6.8	3.6	5.8	3.6	5.5	3.6	5.5	3.6	5.3	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
11.000	279.4	6.8	14	4.3	10	4	9.4	4	8.5	4	7.8	4	7.2	3.6	6.6	3.6	6.2	3.6	6.2	3.6	6	3.6	5.5	3.6	5.5	3.6	5.2	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
11.500	292.1	7.5	14	5	9.9	4.5	9.2	4	8.4	4	7.7	4	7	3.6	6.5	3.6	6.5	3.6	6.5	3.6	6.2	3.6	6.2	3.6	5.8	3.6	5.5	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
11.750	298.5	7.5	14	5	9.8	4.5	9	4	8.3	4	7.6	4	7	3.6	6.4	3.6	6.5	3.6	6.5	3.6	5.6	3.6	5.6	3.6	5.8	3.6	5.5	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
12.000	304.8	7.7	14	5.7	9.8	5.3	9	4.5	9	4	7.6	4	7	3.6	6.4	3.6	6.3	3.6	6.3	3.6	6	3.6	6	3.6	5.8	3.6	5.3	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
12.500	317.5	7.7	14	5	9.5	4.5	8.6	4	8.2	4	7.2	4	8	3.6	6.5	3.6	6.2	3.6	6.2	3.6	6	3.6	6	3.6	6.5	3.6	5	3.6	5	3.6	5	N/A	N/A	N/A	N/A		
12.750	323.9	8.8	14	5.7	9.6	5.3	8.6	4.5	8.3	4	7.8	4	7	3.6	6.5	3.6	6.2	3.6	6.2	3.6	6	3.6	6	3.6	5.6	3.6	5	3.6	4.5	3.6	4.5	3.6	4.5	3.6	4.5		
13.000	330.2	8.8	13	5.7	9.6	5.3	8.6	4.5	8	4	7.6	4	7	3.6	6.4	3.6	6.2	3.6	6.2	3.6	6	3.6	6	3.6	5.6	3.6	4.5	3.6	4.5	3.6	4.5	3.6	4.5	3.6	4.5		
13.375	339.7	8.7	12	5.7	9.5	5.3	8.4	4.5	8	4	7.5	4	6.8	3.6	6.3	3.6	6	3.6	6	3.6	5.8	3.6	5.8	3.6	5.3	3.6	4.8	3.5	4.5	3.5	4.5	3.5	4.5	3.5	4.5		
13.500	342.9	6.5	14	5.7	9.5	5.3	8.8	4.5	8	4	7.5	4	6.8	3.6	6.3	3.6	6	3.6	6	3.6	5.8	3.6	5.8	3.6	5.3	3.6	4.7	3.5	4.4	3.5	4.4	3.5	4.4	3.5	4.4		
14.000	355.6	6.3	14	5.5	8.8	5.2	9	4.5	8.2	4	7.4	4	6.7	3.6	6.2	3.6	5.6	3.6	5.6	3.6	5.2	3.6	5.2	3.6	4.5	3.6	4.5	3.5	4.2	3.5	4.2	3.5	4.2	3.5	4.2		
14.375	365.1	6.0	14	3.8	11.9	4	8.1	4	6.8	4	6.2	3.6	5.5	3.6	5	3.6	5	3.6	6	3.6	5.5	3.6	5.2	3.6	4.8	3.6	4.5	3.5	4.3	3.5	4.1	3.5	4.1	3.5	3.9		
14.500	368.3	6.0	14	3.8	11.9	4	8.2	4	7.8	4	7.2	3.6	6.4	3.6	6.2	3.6	5.6	3.6	5.6	3.6	5.2	3.6	5.2	3.6	4.5	3.6	4.3	3.3	4.1	3.3	4.1	3.3	4.1	3.3	4.1		
15.000	381.0	N/A	N/A	N/A	N/A	4	8.7	4	8.3	4	7.2	3.6	6.2	3.6	5.7	3.6	5.2	3.6	5	5.1	4.7	3.6	4.6	3.6	4.2	3.6	4	3.1	4	3	3.8	3	3.7	3	3.7		
15.500	393.7	N/A	N/A	N/A	N/A	4	8.3	4	8	4	7.2	3.6	6	3.6	5.4	3.6	5	3.6	5	4	4.5	4	4.5	3.6	4	3	3.8	3	3.6	3	3.6	3	3.6	3	3.6		
16.000	406.4	N/A	N/A	N/A	N/A	4	8.5	4	8	4	7.2	3.6	6	3.6	5.4	3.6	5	3.6	5	3.6	4	3.6	4	3.6	4	3	3.8	3	3.6	3	3.6	3	3.6	3	3.3		

ONLY GRADE 1026

↑
COMPANY
PROFILE↑
PRODUCTION
SCHEME↑
PHOTOS
FROM THE
PRODUCTION↑
PRODUCT
ASSORTMENT↑
NON DESTRUCTIVE
TESTING↑
CERTIFICATES↑
TESTING↑
CONTACT



LENGTHS OF MECHANICAL TUBING AND COUPLING STOCK IN FEET

OUTSIDE DIAMETER (inch / mm)		WALL THICKNESS (inch / mm)																															
		0.500		0.750		0.875		1.000		1.125		1.250		1.375		1.500		1.625		1.750		1.875		2.000		2.125		2.250		2.375		2.500	
		12.7		19.1		22.2		25.4		28.6		31.8		34.9		38.1		41.3		44.5		47.6		50.8		54.0		57.2		60.3		63.5	
inch	mm	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
7.000	177.8	22.3	45.9	14.8	37.7	13.1	34.4	13.1	30.5	13.1	21.7	13.1	19.7	13.1	21.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7.500	190.5	19.7	45.9	14.8	33.8	13.1	29.5	13.1	27.2	13.1	25.3	13.1	23.3	13.1	22.0	13.1	20.7	13.1	20.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7.656	194.46	19.7	45.9	14.8	33.8	13.1	29.5	13.1	27.2	13.1	25.3	13.1	23.3	13.1	22.0	13.1	20.7	13.1	20.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7.875	200.0	19.7	45.9	14.8	31.8	13.1	29.5	13.1	26.9	13.1	24.9	13.1	23.0	13.1	21.3	13.1	20.3	13.1	20.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8.000	203.2	19.7	45.9	14.8	31.8	13.1	29.5	13.1	26.9	13.1	24.9	13.1	23.0	13.1	21.3	13.1	20.3	13.1	20.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8.500	215.9	19.7	45.9	14.8	31.2	13.1	28.9	13.1	26.2	13.1	24.6	13.1	21.3	13.1	19.7	13.1	18.0	13.1	18.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8.625	219.1	19.7	45.9	14.8	31.2	13.1	28.9	13.1	26.2	13.1	24.6	13.1	21.3	13.1	19.7	13.1	18.0	13.1	18.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9.000	228.6	19.7	42.7	14.8	30.5	13.1	28.2	13.1	26.2	13.1	23.6	13.1	21.0	11.8	18.4	11.8	17.1	11.8	17.1	11.8	15.1	11.8	13.8	11.8	13.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9.500	241.3	21.7	45.9	14.1	35.4	13.1	32.8	13.1	30.2	13.1	27.9	13.1	25.6	11.8	24.0	11.8	22.6	11.8	22.6	11.8	21.3	11.8	19.7	11.8	19.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9.625	244.5	22.0	45.9	14.1	35.4	13.1	32.8	13.1	30.2	13.1	27.9	13.1	25.6	11.8	24.0	11.8	22.6	11.8	22.6	11.8	21.3	11.8	19.7	11.8	19.7	11.8	18.0	N/A	N/A	N/A	N/A	N/A	
10.000	254.0	16.4	45.9	16.4	34.8	13.1	32.2	13.1	30.2	13.1	27.9	13.1	25.6	11.8	24.0	11.8	22.6	11.8	22.6	11.8	20.3	11.8	18.4	11.8	18.4	11.8	17.1	11.8	15.7	11.8	15.7	N/A	N/A
10.500	266.7	22.0	45.9	14.1	34.4	13.1	32.2	13.1	29.5	13.1	27.6	13.1	25.3	11.8	23.6	11.8	21.3	11.8	21.3	11.8	19.0	11.8	18.0	11.8	18.0	11.8	17.4	11.8	16.4	11.8	16.4	N/A	N/A
10.625	269.9	22.0	45.9	14.1	34.4	13.1	32.2	13.1	29.5	13.1	27.2	13.1	24.9	11.8	23.6	11.8	22.3	11.8	22.3	11.8	19.0	11.8	18.0	11.8	18.0	11.8	17.4	11.8	16.4	11.8	16.4	N/A	N/A
10.750	273.1	22.0	45.9	14.1	34.4	13.1	32.2	13.1	29.5	13.1	27.2	13.1	24.9	11.8	23.6	11.8	22.3	11.8	22.3	11.8	19.0	11.8	18.0	11.8	18.0	11.8	17.4	11.8	16.4	11.8	16.4	N/A	N/A
11.000	279.4	22.3	45.9	14.1	32.8	13.1	30.8	13.1	27.9	13.1	25.6	13.1	23.6	11.8	21.7	11.8	20.3	11.8	20.3	11.8	19.7	11.8	18.0	11.8	18.0	11.8	17.1	11.8	16.4	11.8	16.4	N/A	N/A
11.500	292.1	24.6	45.9	16.4	32.5	14.8	30.2	13.1	27.6	13.1	25.3	13.1	23.0	11.8	21.3	11.8	21.3	11.8	21.3	11.8	20.3	11.8	20.3	11.8	20.3	11.8	18.0	11.8	16.4	11.8	16.4	N/A	N/A
11.750	298.5	24.6	45.9	16.4	32.2	14.8	29.5	13.1	27.2	13.1	24.9	13.1	23.0	11.8	21.0	11.8	21.3	11.8	21.3	11.8	18.4	11.8	18.4	11.8	19.0	11.8	18.0	11.8	16.4	11.8	16.4	N/A	N/A
12.000	304.8	25.3	45.9	18.7	32.2	17.4	29.5	14.8	29.5	13.1	24.9	13.1	23.0	11.8	21.0	11.8	20.7	11.8	20.7	11.8	19.7	11.8	19.7	11.8	19.0	11.8	17.4	11.8	16.4	11.8	16.4	N/A	N/A
12.500	317.5	25.3	45.9	16.4	31.2	14.8	28.2	13.1	26.9	13.1	23.6	13.1	26.2	11.8	21.3	11.8	20.3	11.8	20.3	11.8	19.7	11.8	19.7	11.8	21.3	11.8	16.4	11.8	16.4	11.8	16.4	N/A	N/A
12.750	323.9	28.9	45.9	18.7	31.5	17.4	28.2	14.8	27.2	13.1	25.6	13.1	23.0	11.8	21.3	11.8	20.3	11.8	20.3	11.8	19.7	11.8	19.7	11.8	18.4	11.8	16.4	11.8	14.8	11.8	14.8	11.8	14.8
13.000	330.2	28.9	42.7	18.7	31.5	17.4	28.2	14.8	26.2	13.1	24.9	13.1	23.0	11.8	21.0	11.8	20.3	11.8	20.3	11.8	19.7	11.8	19.7	11.8	18.4	11.8	14.8	11.8	14.8	11.8	14.8	11.8	14.8
13.375	339.7	28.5	39.4	18.7	31.2	17.4	27.6	14.8	26.2	13.1	24.6	13.1	22.3	11.8	20.7	11.8	19.7	11.8	19.7	11.8	19.0	11.8	19.0	11.8	17.4	11.8	15.7	11.5	14.8	11.8	14.8	11.5	14.8
13.500	342.9	21.3	45.9	18.7	31.2	17.4	28.9	14.8	26.2	13.1	24.6	13.1	22.3	11.8	20.7	11.8	19.7	11.8	19.7	11.8	19.0	11.8	19.0	11.8	17.4	11.8	15.4	11.5	14.4	11.5	14.4	11.5	14.4
14.000	355.6	20.7	45.9	18.0	28.9	17.1	29.5	14.8	26.9	13.1	24.3	13.1	22.0	11.8	20.3	11.8	5.6	11.8	18.4	11.8	17.1	11.8	17.1	11.8	14.8	11.8	14.8	11.5	13.8	11.5	13.8	11.5	13.8
14.375	365.1	19.7	45.9	12.5	39.0	13.1	26.6	13.1	22.3	13.1	20.3	11.8	18.0	11.8	16.4	11.8	18.4	11.8	19.7	11.8	18.0	11.8	17.1	11.8	15.7	11.8	14.8	11.5	14.1	11.5	13.5	11.5	12.8
14.500	368.3	19.7	45.9	12.5	39.0	13.1	26.9	13.1	25.6	13.1	23.6	11.8	21.0	11.8	20.3	11.8	18.4	11.8	18.4	11.8	17.1	11.8	17.1	11.8	14.8	11.8	14.1	10.8	13.5	10.8	13.5	10.8	13.5
15.000	381.0	N/A	N/A	N/A	N/A	13.1	28.5	13.1	27.2	13.1	23.6	11.8	20.3	11.8	18.7	11.8	17.1	11.8	16.4	16.7	15.4	11.8	15.1	11.8	13.8	11.8	13.1	10.1	13.1	9.8	12.5	9.8	12.1
15.500	393.7	N/A	N/A	N/A	N/A	13.1	27.2	13.1	26.2	13.1	23.6	11.8	19.7	11.8	17.7	11.8	16.4	11.8	16.4	13.1	14.8	13.1	14.8	11.8	13.1	9.8	12.5	9.8	11.8	9.8	11.8	9.8	11.8
16.000	406.4	N/A	N/A	N/A	N/A	13.1	27.9	13.1	26.2	13.1	23.6	11.8	19.7	11.8	17.7	11.8	16.4	11.8	16.4	11.8	13.1	11.8	13.1	11.8	13.1	9.8	12.5	9.8	11.8	9.8	11.8	9.8	10.8

ONLY GRADE 1026

COMPANY
PROFILEPRODUCTION
SCHEMEPHOTOS
FROM THE
PRODUCTIONPRODUCT
ASSORTMENTNON DESTRUCTIVE
TESTING

CERTIFICATES

TESTING

CONTACT



PRODUCT ASSORTMENT

SEAMLESS SQUARE AND RECTANGULAR HOLLOW SECTIONS

➤
COMPANY
PROFILE

➤
PRODUCTION
SCHEME

➤
PHOTOS
FROM THE
PRODUCTION

➤
PRODUCT
ASSORTMENT

➤
NON DESTRUCTIVE
TESTING

➤
CERTIFICATES

➤
TESTING

➤
CONTACT



SEAMLESS SQUARE AND RECTANGULAR HOLLOW SECTIONS – LENGTHS / IN METRES

STANDARD	HEAT TREATMENT				GRADE		
EN 10210-1, EN 10210-2	+N				S355J2H, S355NH, S460NH		
LENGTHS							
DIMENSION	WALL THICKNESS						
mm	6,3	7,1	8	8,8	10	11	12,5
70 x 70	6-12	6-12	6-12	6-11	6-10	6-9	6-8
80 x 80	6-12	6-12	6-12	6-11	6-10	6-9	6-9
80 x 60	6-12	6-12	6-12	6-11	6-10	6-9	6-8
90 x 90	6-12	6-12	6-12	6-12	6-12	6-11	6-10
90 x 70	6-12	6-12	6-12	6-11	6-10	6-9	6-9
100 x 100	6-12	6-12	6-12	6-12	6-12	6-11	6-10
120 x 100	6-12	6-12	6-12	6-11	6-10	6-9	6-9
120 x 120	6-12	6-12	6-11	6-10	6-9	6-9	6-9
125 x 125	6-12	6-12	6-8	6-8	6-8	6-8	6-7
Heat treatment: +N - normalized							

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COMPANY
PROFILE

↗
PRODUCTION
SCHEME

↗
PHOTOS
FROM THE
PRODUCTION

↗
PRODUCT
ASSORTMENT

↗
NON DESTRUCTIVE
TESTING

↗
CERTIFICATES

↗
TESTING

↗
CONTACT



NON DESTRUCTIVE TESTING

↗
COMPANY
PROFILE

↗
PRODUCTION
SCHEME

↗
PHOTOS
FROM THE
PRODUCTION

↗
PRODUCT
ASSORTMENT

↗
NON DESTRUCTIVE
TESTING

↗
CERTIFICATES

↗
TESTING

↗
CONTACT



NON DESTRUCTIVE TESTING DEVICE LIST

OUTSIDE DIAMETER RANGE	WALL THICKNESS RANGE	LENGTH RANGE	TESTING METHOD	TYPE OF DETECTED DEFECT	STANDARD
mm	mm				
60 – 406,4	5 – 63,5	3,6 – 13,0 m	Ultrasonic ¹⁾	longitudinal defect transversal defect lamination wall thickness	EN ISO 10893-8
					EN ISO 10893-10
					EN ISO 10893-12 ³⁾
					ASTM E 213
					API 5CT
					ČSN 01 5028
					VN 01 5029
60 – 406,4	5 – 63,5	3,6 – 16,0 m	Flux leakage	longitudinal defect transversal defect ²⁾ impermeability	EN ISO 10893-1
					EN ISO 10893-3
					ASTM A570
					ČSN 01 5047
					ČSN 01 5049
178 – 368	5 – 30	180 – 270 mm	Magnetic particle	longitudinal defect transversal defect	ASTM A709
TÜV NORD has approved all the above non-destructive methods					
1) In order to carry out the test the ratio t / D < 0,18 must be maintained					
2) Only for outside diameter ≥ 168,3 mm					
3) Only by agreement					



CERTIFICATES

↗
COMPANY
PROFILE

↗
PRODUCTION
SCHEME

↗
PHOTOS
FROM THE
PRODUCTION

↗
PRODUCT
ASSORTMENT

↗
NON DESTRUCTIVE
TESTING

↗
CERTIFICATES

↗
TESTING

↗
CONTACT



PRODUCTS CERTIFICATION

ACCORDING TO PED 2014/68/EU

GRADE	TECHNICAL DELIVERY CONDITIONS	DELIVERY STATUS	OUTSIDE DIAMETER	WALL THICKNESS	INSPECTION CERTIFICATE*	
			mm	mm	3.1	3.2
P235TR2, P265TR2	EN 10216-1	N	60,3-406,4	5-60	X	X
P235GH, P265GH, 16Mo3	EN 10216-2	N			X	X
13CrMo4-5, 10CrMo9-10, 14MoV6-3	EN 10216-2	NT, QT			X	X
P275NL1, P275NL2, P355N, P355NH, P355NL1, P355NL2	EN 10216-3	N		5-60	X	X
P460N, P460NH, P460NL1, P460NL2	EN 10216-3	N		5-63,5	X	X
Gr. A, Gr. B, Gr. C	ASME SA 106	N				
15128.5, 15128.9	ČSN 415128	NT, QT		5-60	X	X

NOTICE

*) If both types are checked, it is up to customer's choice

N - Normalizing

NT - Normalizing and tempering

QT - Heat treatment



PRODUCTS CERTIFICATION

ACCORDING TO AD 2000-MERKBLATT W4, AD 2000-MERKBLATT W10 A TRD 102

GRADE	TECHNICAL DELIVERY CONDITIONS	DELIVERY STATUS	OUTSIDE DIAMETER	WALL THICKNESS	REGULATION			INSPECTION CERTIFICATE*	
			mm	mm	ADW4	ADW10	TRD102	3.1	3.2
P235TR2, P265TR2	EN 10216-1	N	60,3 - 406,4	5 - 60	X			X	X
P235GH, P265GH,	EN 10216-2	N			X		X	X	X
16Mo3	EN 10216-2	N			X		X	X**	X
13CrMo4-5, 10CrMo9-10	EN 10216-2	NT, QT			X		X		X
14MoV6-3	EN 10216-2	NT, QT			X		X		X
P355NL1, P355NL2	EN 10216-3	N			X	X			X
P355NH, P355N	EN 10216-3	N			X	X			X
P355NH, P355N	EN 10216-3	N			X			X**	X

NOTICE

*) If both types are ticked, it is up to customer's choice

**) Only for a wall thickness up to 30 mm

N - Normalizing

NT - Normalizing and tempering

QT - Heat treatment



TÜV NORD - certificate for Management system as per EN ISO 9001:2015

TÜV NORD - certificate for Management system as per EN ISO 14001:2015

TÜV NORD - certificate PED 2014/68/EU

TÜV NORD - certificate 2000-Merkblatt W0

TÜV NORD - certificate CE

TÜV NORD - certificate UKCA

TÜV UK Ltd. – certificate PESR

TÜV NORD - certificate of technical competence of non-destructive testing according AD 2000-Merkblatt W0 / PED 2014/68/EU a PESR 2016

API Spec. 5CT

API Spec. 5L

Lloyd's Register

Bureau Veritas

DNV-GL

Certificate B - Zetom Katowice Poland

Czechoslovak Lloyd

WE HAVE BEEN LICENSED WITH API MONOGRAM IN MANUFACTURING AND MARKING PROCEDURE OF CASING, COUPLINGS AND LINE PIPE SINCE 1927.



TESTING

↗
COMPANY
PROFILE

↗
PRODUCTION
SCHEME

↗
PHOTOS
FROM THE
PRODUCTION

↗
PRODUCT
ASSORTMENT

↗
NON DESTRUCTIVE
TESTING

↗
CERTIFICATES

↗
TESTING

↗
CONTACT



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TŽ PERFORMS 100% OF MECHANICAL, METALLOGRAPHIC, TECHNOLOGICAL TESTS AND CHEMICAL ANALYSES IN AN INDEPENDENT TESTING LABORATORY THE COMPANY ENVIFORM, A.S. ACCREDITED BY ČIA ACCORDING TO ČSN EN ISO/IEC 17025:2018

**TENSILE TEST****IMPACT BENDING TEST****BRINELL HARDNESS TEST****TUBE FLATTENING TEST****TUBE RING-EXPANDING TEST****TUBE RING TENSILE TEST**

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739 61 Třinec,
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www.trz.cz

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www.moravia-steel.cz

TUBE MILL

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↗
**COMPANY
PROFILE**

↗
**PRODUCTION
SCHEME**

↗
**PHOTOS
FROM THE
PRODUCTION**

↗
**PRODUCT
ASSORTMENT**

↗
**NON DESTRUCTIVE
TESTING**

↗
CERTIFICATES

↗
TESTING

↗
CONTACT