DIN 2441-78 STEEL TUBES HEABY WEIGHT FOR SUITABLE FOR SCREWING

1. Scope

This Standard applies to medium-weight tubes suitable for screwing. They are suitable for nominal pressure 2 for liquids and nominal pressure 10 for air and non-hazardous gases.

2. Other relevant Standards

DIN 2444 Zinc coatings on steel tubes; quality standard for the hot galvanizing of steel tubes for installation purposes

DIN 2999 Part 1 Whitworth pipe threads for tubes and fittings; cylindrical internal thread and conical external

DIN 17100 Steels for general structural purposes; quality specifications

DIN 50136 Testing of metallic materials; flattening test on tubes

3. Dimensions, designation

Designation of a medium-weight tube suitable for screwing, nominal width 40, seamlessly galvanized (B), in manufacturing lengths:

Table 1. Threaded tube DIN 2440 - DN 40-seamless B

		Whit- worth- pipe threads according to DIN 2999	Tube				Screw threa	ad				Corresponding socket according to DIN 2986	
	Connecting nominal width of the fittings according to DIN 2950 and DIN 2980		Outside	thick- ness s	socketed		thread	Threads per 25.4mm	screw thread length J min at	Distance screw th diamete d2 from tul a max.	nread or oe end a	Outside diameter min.	Length min.
6	1/8	R 1/8	10.2	2.65	0.493	0.496	9.728	28	7.4	4.9	3.1	14	17
8	1/4	R 1/4	13.5	2.9	0.769	0.713	13.157	19	11.0	7.3	4.7	18.5	25
10	3/8	R 3/8	17.2	2.9	1.02	1.03	16.662	19	11.4	7.7	5.1	21.3	26

15	1/2	R 1/2	21.3	3.25	1.45	1.46	20.955	14	15.0	10.0	6.4	26.4	34
20	3/4	R 3/5	26.9	3.25	1.90	1.91	26.441	14	16.3	11.3	7.7	31.8	36
25	1	R 1	33.7	4.05	2.97	2.99	33.249	11	19.1	12.7	8.1	39.5	43
32	1 1/4	R 1 1/4	42.4	4.05	3.84	3.87	41.910	11	21.4	15.0	10.4	48.3	48
40	1 1/2	R 1 1/2	48.3	4.05	4.43	4.47	47.803	11	21.4	15.0	10.4	54.5	48
50	2	R 2	60.3	4.5	6.17	6.24	59.614	11	25.7	18.2	13.6	66.3	56
65	2 1/2	R 2 1/2	76.1	4.5	7.90	8.02	75.184	11	30.2	21.0	14.0	82	65
80	3	R 3	88.9	4.85	10.1	10.3	87.884	11	33.3	241	17.1	95	71
100	4	R 4	114.3	5.4	14.4	14.7	113.030	11	39.3	28.9	21.9	122	83
125	5	R 5	139.7	5.4	17.8	18.3	138.430	11	43.6	32.1	25.1	147	92
150	6	R 6	165.1	5.4	21.2	21.8	163.830	11	43.6	32.1	25.1	174	92
U.	ed to an average	<u> </u>	105.1	5.4	21.2	21.8	103.830	<u> </u>	43.6	32. I	25. I	174	92

A decision with regard to the method of designation for fittings will be taken the time when the currently existing ISO Recommendations are converted to ISO Standard, due consideration being given to international practice regarding the designation of tubes suitable for screwing.

Table 3.

Nominal width	d1	d1
DN	max.	min.
6	10.6	9.8
8	14.0	13.2
10	17.5	16.7
15	21.8	21.0
20	27.3	26.5
25	34.2	33.3
32	42.9	42.0
40	48.8	47.9
50	60.8	59.7
65	76.6	75.3

80	89.5	88.0
100	115.0	113.1
125	140.8	138.5
150	166.5	163.9

Wall thickness

- 12.5% (-15% at individual points not longer than 2 X the outside diameter, provided that this reduction is effective only on the outer surface).

The upper limit is fixed by the permissible weight deviation.

10.6 Weight deviations

Compared with the weights specified in the table on page 1 deviations according to the following table are permissible.

Table 4.

for a single tube	for a consignment of not less than 10 t
±10%	±7.5%

JIS Number and Corresponding Foreign Standards

JIS		ASTM			DIN			NF			ISO			Index	
Standard Number	Grade	Туре	Standard Number	Grade	Туре	Standard Number	Grade	Туре	Standard Number	Grade	Type	Standard Number	Grade		Number
G3452	SGP	С	A53	Type F	С	1615	St 33-2	С	A49-145	TS34-1	С	65	TW	С	C001
						2441	St33-2	С	A49-146	TS334-a	С	559	TWO	С	