CLARIFICĂRI

Privind Documentația de Atribuire pentru contractul de furnizare ce are ca obiect achiziție de **"Materiale (conducte, coturi și flanșe din inox, DN350, DN250, DN200, DN100, DN65, DN32) necesare realizării instalațiilor generale din CHE Remeți: Instalații de alimentare cu apă de răcire hidroagregate, instalații de epuisment și golire con"** din cadrul lucrării ***"Lucrări de modernizare HA2 din CHE Remeți, inclusiv a Stației de 110kV, instalațiilor generale aferente centralei, nodului de presiune și Barajului Drăgan.ETAPA I."***

Solicitare operator economic	Răspuns achizitor
	Societatea de Servicii Hidroenergetice Hidroserv S.A. (denumită în continuare *"S.S.H. Hidroserv S.A."*), societate ce nu este autoritate contractantă, având în vedere documentația de atribuire, pentru contractul de furnizare ce are ca obiect achiziție de **"Materiale (conducte, coturi și flanșe din inox, DN350, DN250, DN200, DN100, DN65, DN32) necesare realizării instalațiilor generale din CHE Remeți: Instalații de alimentare cu apă de răcire hidroagregate, instalații de epuisment și golire con"** din cadrul lucrării ***"Lucrări de modernizare HA2 din CHE Remeți, inclusiv a Stației de 110kV, instalațiilor generale aferente centralei, nodului de presiune și Barajului Drăgan.ETAPA I."*** prin procedura de LICITAȚIE DESCHISĂ, postată pe site-ul societății în data de 01.04.2026, vă comunică următoarele **:**
I. În caietul de sarcini nr. E21735/24.03.24.03.2026 grosimea peretelui țevilor și fitingurilor aferente sunt puțin modificate față de grosimea standardului de ececuție pentru țevi trase și fitingurile aferente. În acest sens vă prezentăm mai jos dimensiunile ce apar în caietul de sarcini, și dimensiunile pe care le comercializăm și le putem oferta conform standard de execuție: - Dimensiuni cf ASTM A312 SCH10 – INOX TP 304L DN350 - 355,6mm x 4,78mm	Vă rog să luați în calcul faptul că ofertele primite vor respecta standardul de dimensiuni ASME B36.19M anexat. Astfel: DN350- 355,6mm X 4,78mm DN 250----273mm x 4,19 mm DN200 - 219,1mm x 3,76mm DN150 - 168,3mm x 3,4mm DN125 - 141,3 X 3,4 DN100 - 114,3 X 3,05 DN65 - 73 X 3,05 DN32 - 42,2 X 2,77

DN250 - 273mm x 4,19mm DN200 - 219,1mm x 3,76 mm DN150 – 168,3 mm x 3,4 mm DN125 - 141,3 x 3,4 DN100 -114,3 x 3,05 DN65 - 76,1 x 3,05 DN32 – 42,16 x 2,77 Dimensiuni caiet de sarcini: DN350 – 355,6 x 4,78 DN250 -273 x 3,78 DN200 – 219,1 X3,78 DN150 – 168,3 x 3,78 DN125 – 141,3 X 3 DN100 – 114,3 x 3 DN65 – 76,1 x 2,6 DN32 – 42,16 x 2,6	
II. Contractele încheiate cu beneficiarii noștri conțin clauze de confidențialitate de aceea nu le putem furniza, dar putem depune facturi de vânzare din care să rezulte vânzări similare de țevi și fitinguri inox și declarația pe propria răspundere – Formularul 7 – dacă este OK pentru Dvs ?	Da, se pot depune copii după facturile de vânzare, din care să rezulte vânzări similare de țevi și fitinguri de inox și de asemenea Formularul 7 completat.
III. Formularele se pot scrie și de mână cu pixul sau se doresc redactate pe calculator ?	Da, se pot completa și manual, dar să fie scrisul lizibil. Conform FIȘEI DE DATE A ACHIZIȚIEI, Cap. I.1) Formularele se pot solicita în format editabil, la adresa de e-mail mircea.dezmirean@hidroserv.ro.

ASME B36.19M-2018
[Revision of ASME B36.19M-2004 (R2015)]

Stainless Steel Pipe

AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

CONTENTS

Foreword iv

Committee Roster v

Correspondence With the B32 Committee vi

1 Scope 1

2 Size 1

3 Materials 1

4 Wall Thickness 1

5 Weights/Masses 1

6 Permissible Variations 1

7 Pipe Threads 1

8 Wall-Thickness Selection 2

Table

2-1 Dimensions of Welded and Seamless Stainless Steel Pipe and Nominal Weights (Masses) of Steel Pipe, Plain End 3

STAINLESS STEEL PIPE

1 Введение

Настоящий стандарт охватывает стандартизацию размеров сварных и бесшовных кованых труб из нержавеющей стали для высоких или низких температур и давлений.

2 РАЗМЕРЫ

The size of all pipe in Table 2-1 is identified by the dimensionless designator nominal pipe size (NPS) [diamètre nominal (DN)]. Pipes NPS 12 (DN 300) and smaller have outside diameters numerically larger than their corresponding sizes. In contrast, the outside diameters of tubes are numerically identical to the size number for all sizes.

The manufacture of pipe NPS $\frac{1}{8}$ (DN 6) to NPS 12 (DN 300), inclusive, is based on a standardized outside diameter (O.D.). This O.D. was originally selected so that pipe with a standard O.D. and having a wall thickness that was typical of the period would have an inside diameter (I.D.) equal to the nominal size. Although there is no such relation between the standard thicknesses — O.D. and nominal size — these nominal sizes and standard O.D.s continue in use as “standard.”

The manufacture of pipe NPS 14 (DN 350) and larger proceeds on the basis of an O.D. corresponding to the nominal size.

3

The dimensional standards for pipe described here are for products covered in ASTM specifications.

4 THICKNESS

The nominal wall thicknesses are given in Table 2-1. The wall thicknesses for NPS 14 to NPS 22, inclusive (DN 350 to DN 550, inclusive), of Schedule 10S; NPS 12 (DN 300) of Schedule 40S; and NPS 10 and NPS 12 (DN 250 and DN 300) of Schedule 80S are not the same as those of ASME B36.10M, Welded and Seamless Wrought Steel Pipe. The “S” in the schedule number is used to differentiate B36.19M pipe from B36.10M pipe. ASME B36.10M includes other pipe thicknesses that are also commercially available with stainless steel material.

5 WEIGHTS/MASSES

The nominal weights (masses)[1] of the pipe are calculated values and are tabulated in Table 2-1.

(a) The nominal plain end weight, in pounds per foot, is calculated using the following formula:

$$W_{pe} = 10.69(D - t)t$$

where

D = outside diameter to the nearest 0.001 in. (the symbol D is used for O.D. only in mathematical equations or formulas)

t = specified wall thickness, rounded to the nearest 0.001 in.

W_{pe} = nominal plain end weight, rounded to the nearest 0.01 lb/ft

(b) The nominal plain end mass, in kilograms per meter, is calculated using the following formula:

$$- t)t$$

where

D = outside diameter to the nearest 0.1 mm for outside diameters that are 16 in. (406.4 mm) and smaller, and 1.0 mm for outside diameters larger than 16 in. (406.4 mm) (the symbol D is used for O.D. only in mathematical equations or formulas)

M_{pe} = nominal plain end mass, rounded to the nearest 0.01 kg/m

t = specified wall thickness, rounded to the nearest 0.01 mm

6 PERMISSIBLE

Variations in dimensions differ depending upon the method of manufacture employed in making the pipe to the various specifications available. Permissible variations for dimensions are indicated in each specification.

7 PIPE

Если не указано иное, резьба резьбовой трубы должна соответствовать ASME B1.20.1 - "Трубная резьба общего назначения" (дюймы).

Толщины стенок сортаментов 5S и 10S не позволяют нарезать резьбу в соответствии с ASMEB1.20.1.

[1] The different grades of stainless steel have different specific densities and hence their weights (masses) may be less than or greater than the values listed in Table 2-1 would indicate [see Table 2-1, General Note (e)].

8 WALL-THICKNESS SELECTION

When the selection of wall thickness depends primarily upon capacity to resist internal pressure under given conditions, the designer shall compute the exact value of wall thickness suitable for conditions for which the pipe is required, as prescribed in detail in the ASME Boiler and Pressure Vessel Code, ASME B31 Code for Pressure Piping, or other similar code, whichever governs the construction. A thickness shall be selected from the schedules of nominal thickness contained in Table 2-1 to suit the value computed to fulfill the conditions for which the pipe is desired.

Table 2-1 Dimensions of Welded and Seamless Stainless Steel Pipe and Nominal Weights (Masses) of Steel Pipe, Plain End

NPS (DN)	Schedule No.	Outside Diameter, in. (mm)	Wall Thickness, in. (mm)	Plain End Weight (Mass), lb/ft (kg/m)
1/8 (6)	5S	0.405 (10.3)	... [Note (1)]	...
1/8 (6)	10S	0.405 (10.3)	0.049 (1.24) [Note (1)]	0.19 (0.28)
1/8 (6)	40S	0.405 (10.3)	0.068 (1.73)	0.24 (0.37)
1/8 (6)	80S	0.405 (10.3)	0.095 (2.41)	0.31 (0.47)
1/4 (8)	5S	0.540 (13.7)	... [Note (1)]	...
1/4 (8)	10S	0.540 (13.7)	0.065 (1.65) [Note (1)]	0.33 (0.49)
1/4 (8)	40S	0.540 (13.7)	0.088 (2.24)	0.43 (0.63)
1/4 (8)	80S	0.540 (13.7)	0.119 (3.02)	0.54 (0.80)
3/8 (10)	5S	0.675 (17.1)	... [Note (1)]	...
3/8 (10)	10S	0.675 (17.1)	0.065 (1.65) [Note (1)]	0.42 (0.63)
3/8 (10)	40S	0.675 (17.1)	0.091 (2.31)	0.57 (0.84)
3/8 (10)	80S	0.675 (17.1)	0.126 (3.20)	0.74 (1.10)
1/2 (15)	5S	0.840 (21.3)	0.065 (1.65) [Note (1)]	0.54 (0.80)
1/2 (15)	10S	0.840 (21.3)	0.083 (2.11) [Note (1)]	0.67 (1.00)
1/2 (15)	40S	0.840 (21.3)	0.109 (2.77)	0.85 (1.27)
1/2 (15)	80S	0.840 (21.3)	0.147 (3.73)	1.09 (1.62)
3/4 (20)	5S	1.050 (26.7)	0.065 (1.65) [Note (1)]	0.68 (1.02)
3/4 (20)	10S	1.050 (26.7)	0.083 (2.11) [Note (1)]	0.86 (1.28)
3/4 (20)	40S	1.050 (26.7)	0.113 (2.87)	1.13 (1.69)
3/4 (20)	80S	1.050 (26.7)	0.154 (3.91)	1.48 (2.20)
1 (25)	5S	1.315 (33.4)	0.065 (1.65) [Note (1)]	0.87 (1.29)
1 (25)	10S	1.315 (33.4)	0.109 (2.77) [Note (1)]	1.41 (2.09)
1 (25)	40S	1.315 (33.4)	0.133 (3.38)	1.68 (2.50)
1 (25)	80S	1.315 (33.4)	0.179 (4.55)	2.17 (3.24)
1 1/4 (32)	5S	1.660 (42.2)	0.065 (1.65) [Note (1)]	1.11 (1.65)
1 1/4 (32)	10S	1.660 (42.2)	0.109 (2.77) [Note (1)]	1.81 (2.69)
1 1/4 (32)	40S	1.660 (42.2)	0.140 (3.56)	2.27 (3.39)
1 1/4 (32)	80S	1.660 (42.2)	0.191 (4.85)	3.00 (4.47)
1 1/2 (40)	5S	1.900 (48.3)	0.065 (1.65) [Note (1)]	1.28 (1.90)
1 1/2 (40)	10S	1.900 (48.3)	0.109 (2.77) [Note (1)]	2.09 (3.11)
1 1/2 (40)	40S	1.900 (48.3)	0.145 (3.68)	2.72 (4.05)
1 1/2 (40)	80S	1.900 (48.3)	0.200 (5.08)	3.63 (5.41)
2 (50)	5S	2.375 (60.3)	0.065 (1.65) [Note (1)]	1.61 (2.39)
2 (50)	10S	2.375 (60.3)	0.109 (2.77) [Note (1)]	2.64 (3.93)
2 (50)	40S	2.375 (60.3)	0.154 (3.91)	3.66 (5.44)
2 (50)	80S	2.375 (60.3)	0.218 (5.54)	5.03 (7.48)
2 1/2 (65)	5S	2.875 (73)	0.083 (2.11) [Note (1)]	2.48 (3.69)
2 1/2 (65)	10S	2.875 (73)	0.120 (3.05) [Note (1)]	3.53 (5.26)

Table 2-1 Dimensions of Welded and Seamless Stainless Steel Pipe and Nominal Weights (Masses) of Steel Pipe, Plain End (Cont'd)

NPS (DN)	Schedule No.	Outside Diameter, in. (mm)	Wall Thickness, in. (mm)	Plain End Weight (Mass), lb/ft (kg/m)
2½ (65)	40S	2.875 (73)	0.203 (5.16)	5.80 (8.63)
2½ (65)	80S	2.875 (73)	0.276 (7.01)	7.67 (11.41)
3 (80)	5S	3.500 (88.9)	0.083 (2.11) [Note (1)]	3.03 (4.52)
3 (80)	10S	3.500 (88.9)	0.120 (3.05) [Note (1)]	4.34 (6.46)
3 (80)	40S	3.500 (88.9)	0.216 (5.49)	7.58 (11.29)
3 (80)	80S	3.500 (88.9)	0.300 (7.62)	10.26 (15.27)
3½ (90)	5S	4.000 (101.6)	0.083 (2.11) [Note (1)]	3.48 (5.18)
3½ (90)	10S	4.000 (101.6)	0.120 (3.05) [Note (1)]	4.98 (7.41)
3½ (90)	40S	4.000 (101.6)	0.226 (5.74)	9.12 (13.57)
3½ (90)	80S	4.000 (101.6)	0.318 (8.08)	12.52 (18.64)
4 (100)	5S	4.500 (114.3)	0.083 (2.11) [Note (1)]	3.92 (5.84)
4 (100)	10S	4.500 (114.3)	0.120 (3.05) [Note (1)]	5.62 (8.37)
4 (100)	40S	4.500 (114.3)	0.237 (6.02)	10.80 (16.08)
4 (100)	80S	4.500 (114.3)	0.337 (8.56)	15.00 (22.32)
5 (125)	5S	5.563 (141.3)	0.109 (2.77) [Note (1)]	6.36 (9.46)
5 (125)	10S	5.563 (141.3)	0.134 (3.40) [Note (1)]	7.78 (11.56)
5 (125)	40S	5.563 (141.3)	0.258 (6.55)	14.63 (21.77)
5 (125)	80S	5.563 (141.3)	0.375 (9.53)	20.80 (30.97)
6 (150)	5S	6.625 (168.3)	0.109 (2.77) [Note (1)]	7.59 (11.31)
6 (150)	10S	6.625 (168.3)	0.134 (3.40) [Note (1)]	9.30 (13.83)
6 (150)	40S	6.625 (168.3)	0.280 (7.11)	18.99 (28.26)
6 (150)	80S	6.625 (168.3)	0.432 (10.97)	28.60 (42.56)
8 (200)	5S	8.625 (219.1)	0.109 (2.77) [Note (1)]	9.92 (14.78)
8 (200)	10S	8.625 (219.1)	0.148 (3.76) [Note (1)]	13.41 (19.97)
8 (200)	40S	8.625 (219.1)	0.322 (8.18)	28.58 (42.55)
8 (200)	80S	8.625 (219.1)	0.500 (12.70)	43.43 (64.64)
10 (250)	5S	10.750 (273.0)	0.134 (3.40) [Note (1)]	15.21 (22.61)
10 (250)	10S	10.750 (273.0)	0.165 (4.19) [Note (1)]	18.67 (27.78)
10 (250)	40S	10.750 (273.0)	0.365 (9.27)	40.52 (60.29)
10 (250)	80S	10.750 (273.0)	0.500 (12.70) [Note (2)]	54.79 (81.53)
12 (300)	5S	12.750 (323.8)	0.156 (3.96) [Note (1)]	21.00 (31.24)
12 (300)	10S	12.750 (323.8)	0.180 (4.57) [Note (1)]	24.19 (35.98)
12 (300)	40S	12.750 (323.8)	0.375 (9.53) [Note (2)]	49.61 (73.86)
12 (300)	80S	12.750 (323.8)	0.500 (12.70) [Note (2)]	65.48 (97.44)
14 (350)	5S	14.000 (355.6)	0.156 (3.96) [Note (1)]	23.09 (34.34)
14 (350)	10S	14.000 (355.6)	0.188 (4.78) [Notes (1), (2)]	27.76 (41.36)
14 (350)	40S	14.000 (355.6)	0.375 (9.53) [Note (2)]	54.62 (81.33)

Table 2-1 Dimensions of Welded and Seamless Stainless Steel Pipe and Nominal Weights (Masses) of Steel Pipe, Plain End (Cont'd)

NPS (DN)	Schedule No.	Outside Diameter, in. (mm)	Wall Thickness, in. (mm)	Plain End Weight (Mass), lb/ft (kg/m)
14 (350)	80S	14.000 (355.6)	0.500 (12.70) [Note (2)]	72.16 (107.40)
16 (400)	5S	16.000 (406.4)	0.165 (4.19) [Note (1)]	27.93 (41.56)
16 (400)	10S	16.000 (406.4)	0.188 (4.78) [Notes (1), (2)]	31.78 (47.34)
16 (400)	40S	16.000 (406.4)	0.375 (9.53) [Note (2)]	62.64 (93.27)
16 (400)	80S	16.000 (406.4)	0.500 (12.70) [Note (2)]	82.85 (123.31)
18 (450)	5S	18.000 (457)	0.165 (4.19) [Note (1)]	31.46 (46.79)
18 (450)	10S	18.000 (457)	0.188 (4.78) [Notes (1), (2)]	35.80 (53.31)
18 (450)	40S	18.000 (457)	0.375 (9.53) [Note (2)]	70.65 (...)
18 (450)	80S	18.000 (457)	0.500 (12.70) [Note (2)]	93.54 (...)
20 (500)	5S	20.000 (508)	0.188 (4.78) [Note (1)]	39.82 (59.32)
20 (500)	10S	20.000 (508)	0.218 (5.54) [Notes (1), (2)]	46.10 (68.65)
20 (500)	40S	20.000 (508)	0.375 (9.53) [Note (2)]	78.67 (117.15)
20 (500)	80S	20.000 (508)	0.500 (12.70) [Note (2)]	104.23 (155.13)
22 (550)	5S	22.000 (559)	0.188 (4.78) [Note (1)]	43.84 (65.33)
22 (550)	10S	22.000 (559)	0.218 (5.54) [Notes (1), (2)]	50.76 (75.62)
22 (550)	40S	22.000 (559)	...	...
22 (550)	80S	22.000 (559)	...	...
24 (600)	5S	24.000 (610)	0.218 (5.54) [Note (1)]	55.42 (82.58)
24 (600)	10S	24.000 (610)	0.250 (6.35) [Note (1)]	63.47 (94.53)
24 (600)	40S	24.000 (610)	0.375 (9.53) [Note (2)]	94.71 (141.12)
24 (600)	80S	24.000 (610)	0.500 (12.70) [Note (2)]	125.61 (187.07)
30 (750)	5S	30.000 (762)	0.250 (6.35) [Note (1)]	79.51 (118.34)
30 (750)	10S	30.000 (762)	0.312 (7.92) [Note (1)]	99.02 (147.29)
30 (750)	40S	30.000 (762)	...	...
30 (750)	80S	30.000 (762)	...	...

GENERAL NOTES:

(a) 1 in. = 25.4 mm.

(b) For tolerances, see section 6.

(c) 1 lb/ft = 1.4895 kg/m.

(d) Weights (masses) are given in pounds per linear foot (kilograms per meter) and are for carbon steel pipe with plain ends.

(e) The different grades of stainless steel permit considerable variations in weight (mass). The ferritic stainless steels may be about 5% less, and the austenitic stainless steels about 2% greater, than the values shown in this Table, which are based on weights (masses) for carbon steel.

NOTES:

(1) These wall thicknesses do not permit threading in accordance with ASME B1.20.1.

(2) These dimensions do not conform to ASME B36.10M.

INTENTIONALLY LEFT BLANK

B32/B36 AMERICAN NATIONAL STANDARDS FOR PRODUCT SIZES

B32.5-1977 (R2010)	Preferred Metric Sizes for Tubular Metal Products Other Than Pipe
B32.100-2016	Preferred Metric Sizes for Flat, Round, Square, Rectangular, and Hexagonal Metal Products
B36.10M-2018	Welded and Seamless Wrought Steel Pipe
B36.19M-2018	Stainless Steel Pipe

The ASME Publications Catalog shows a complete list of all the Standards published by the Society. For a complimentary catalog, or the latest information about our publications, call 1-800-THE-ASME (1-800-843-2763).

ASME Services

ASME is committed to developing and delivering technical information. At ASME's Customer Care, we make every effort to answer your questions and expedite your orders. Our representatives are ready to assist you in the following areas:

ASME Press
Codes & Standards
Credit Card Orders
IMechE Publications
Meetings & Conferences
Member Dues Status
Member Services & Benefits
Other ASME Programs
Payment Inquiries
Professional Development
Short Courses
Publications
Public Information
Self-Study Courses
Shipping Information
Subscriptions/Journals/Magazines
Symposia Volumes
Technical Papers

How can you reach us? It's easier than ever!

There are four options for making inquiries* or placing orders. Simply mail, phone, fax, or E-mail us and a Customer Care representative will handle your request.

Mail
ASME
150 Clove Road, 6th Floor
Little Falls, New Jersey
07424-2139

Call Toll Free
US & Canada: 800-THE-ASME
(800-843-2763)
Mexico: 95-800-THE-ASME
(95-800-843-2763)

Fax—24 hours
973-882-1717
973-882-5155

E-Mail—24 hours
customercare@asme.org

*Customer Care staff are not permitted to answer inquiries about the technical content of this code or standard. Information as to whether or not technical inquiries are issued to this code or standard is shown on the copyright page. All technical inquiries must be submitted in writing to the staff secretary. Additional procedures for inquiries may be listed within.

ASME B36.19M-2018

ISBN 978-0-7918-7217-8