

# amari metals

STEEL AND STAINLESS STEEL TUBES



[WWW.AMARIMETALS.NL](http://WWW.AMARIMETALS.NL)

# ◆○ INTRODUCTION

## Reliable and versatile

Amari Metals BV in Vianen has been a well established name in the national and international trade of stainless steel products, copper and nickel alloys and aluminium semi-finished products for over thirty years. In order to provide even better and faster service to our growing customer base, Amari Metals BV has, in the spring of 2012, moved into a new, larger building with one central warehouse.

## International (distribution) network

The company is part of an international cooperation initiative. Amari Metals BV thus associates economic benefit to excellent quality products, maintains global relationships with several reliable partners, and also has Europe's largest distribution network.

## Available from stock

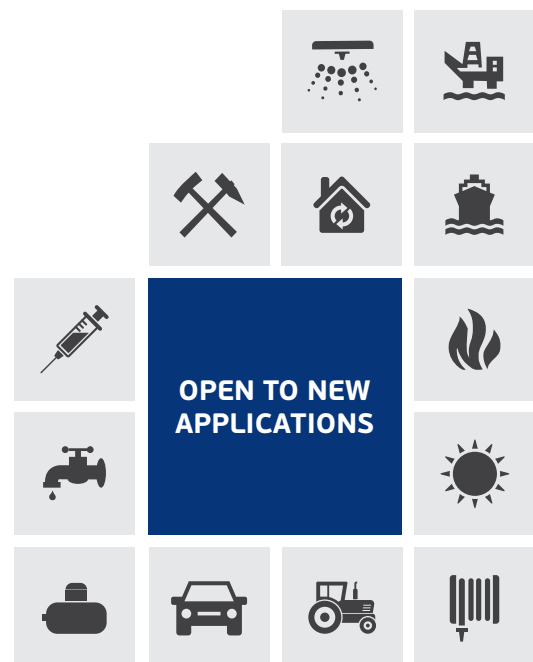
Amari Metals BV distinguishes itself by offering a complete, very extensive product range and has a wide range of in-house expertise. All items are available from stock. Order today, have it delivered tomorrow: fast, within the agreed upon time and of course duly custom packaged. Optionally, Amari Metals BV can take over your inventory management and ensure proper storage.

## Partner in various fields

Amari Metals BV specializes in steel and stainlesssteel (precision) tubes, seamless and/or welded. At the same time the company is regarded as a specialist in the area of thick aluminium plates and special aluminium shapes. Collaboration with Amari Metals BV means working with a partner that can be of service to you in various fields. You are the starting point: your needs are the priority.

## Knowledge and skill

The enthusiastic team of Amari Metals BV consists of expert staff: experienced professionals who are closely involved with your products and your desires. They deliver customisations that meet your requirements as well as those of your customer. Amari Metals BV likes to think along with you and will not shy away from challenges. The aim is to make your life easier.



# ◆○ STEEL AND STAINLESS STEEL TUBES

## Extensive programme

Amari Metals BV as one of the few suppliers in Europe has a full programme, and can quickly provide it from stock. The new and ultra modern warehouse in Vianen offers a comprehensive range of steel and stainless steel precision tubes, both seamless and welded, in all common alloys. Unique is the availability of all sizes: both metric and inch sizes. Deliveries on an "ex works" production basis can be quickly delivered to your location.

## Your best solution

Amari Metals BV is committed to partnerships, and wants to achieve the best results in cooperation with you. Specifically for that purpose, engaged company employees delve into your market, and into your customers' and your specific needs. With their excellent training, years of experience and current knowledge they can expertly inform you on options and custom solutions. They always carefully pack the products so that they are guaranteed to reach you in a proper condition.

## Certified quality

The skill of our logistic employees and the quality of our warehouse guarantee the careful storage and distribution of our products. The commitment and flexibility of our employees result in "personal attention" for all our clients. As one of the first Multi-metal enterprises in the Netherlands, we have been ISO 9001 certified since 1990. In part, this guarantees the quality and reliability of our organisation.

## Extensive range

A wide assortment of Asian and European seamless, stainless steel tubes is available from stock in both metric and Imperial sizes from Vianen. We supply 304, 304L, 316, 316L, 321, 316 Ti, 309, 310 and 904L grades in sizes ranging from 3.0 mm to 24" (609.6 mm). Special alloys, sizes and fixed lengths are available on request and, if required, can be supplied on call from stock to meet the specific customer need.



## Seamless stainless steel tubes

According to standard ASTM A269, EN 10216-5

In alloys AISI 304 / 304L / 316 / 316L / 321 / 316 Ti  
and W.Nr. 1.4301 / 1.4307 / 1.4401 / 1.4404 / 1.4541  
/ 1.4571

### Tolerances according to EN ISO 1127

Outside diameter class	Tol O.D.	Wall thickness Class	Tol Wall thickness
D1	+/- 1,5 % of 0,75 mm	T1	+/- 15 % of 0,60 mm
D2	+/- 1,0 % of 0,50 mm	T2	+/- 12,5 % of 0,40 mm
D3	+/- 0,75 % of 0,30 mm	T3	+/- 10 % of 0,20 mm
D4	+/- 0,5 % of 0,10 mm	T4	+/- 7,5 % of 0,15 mm
		T5	+/- 5,0 % of 0,10 mm

Water  
Heat exchanger  
Ship-building  
Offshore  
Gas  
Industry  
Firefighting  
Hydraulics  
Pneumatics  
Agricultural sector  
Medical sector  
Car automotive



O.D. mm	Wall mm	I.D. mm	Inch	+/- kg p/m	Work.pr. pres./in bar *
3,00	0,50	2,00		0,031	428
3,00	1,00	1,00		0,050	856
3,18	0,41	2,36	1/8" x 0,016"	0,028	331
3,18	0,51	2,16	1/8" x 0,020"	0,034	412
3,18	0,56	2,06	1/8" x 0,022"	0,037	465
3,18	0,71	1,76	1/8" x 0,028"	0,044	573
3,18	0,89	1,40	1/8" x 0,035"	0,051	718
3,18	1,24	0,70	1/8" x 0,049"	0,060	1001
4,00	0,50	3,00		0,044	321
4,00	1,00	2,00		0,075	642
4,76	0,51	3,74	3/16" x 0,022"	0,054	275
4,76	0,71	3,34	3/16" x 0,028"	0,072	383
4,76	0,89	2,98	3/16" x 0,035"	0,086	480
4,76	1,24	2,28	3/16" x 0,049"	0,109	669
4,76	1,65	1,46	3/16" x 0,065"	0,128	890
5,00	0,50	4,00		0,056	257
5,00	1,00	3,00		0,100	513
6,00	0,50	5,00		0,069	214
6,00	1,00	4,00		0,125	428
6,00	1,50	3,00		0,169	642
6,00	2,00	2,00		0,200	856
6,35	0,51	5,33	1/4" x 0,020"	0,075	206
6,35	0,71	4,93	1/4" x 0,028"	0,100	287
6,35	0,89	4,57	1/4" x 0,035"	0,122	360
6,35	1,24	3,87	1/4" x 0,049"	0,159	501
6,35	1,65	3,05	1/4" x 0,065"	0,194	667
6,35	2,11	2,13	1/4" x 0,083"	0,224	853
7,94	0,51	6,92	5/16" x 0,020"	0,095	165
7,94	0,71	6,52	5/16" x 0,028"	0,129	230
7,94	0,89	6,16	5/16" x 0,035"	0,157	288
7,94	1,24	5,46	5/16" x 0,049"	0,208	401
7,94	1,65	4,64	5/16" x 0,065"	0,260	533
7,94	2,11	3,72	5/16" x 0,083"	0,308	682
7,94	2,64	2,66	5/16" x 0,104"	0,350	853
8,00	0,50	7,00		0,094	160
8,00	1,00	6,00		0,175	321
8,00	1,50	5,00		0,244	481
8,00	2,00	4,00		0,300	642
9,00	1,00	7,00		0,200	285
9,53	0,51	8,51	3/8" x 0,020"	0,115	137
9,53	0,71	8,11	3/8" x 0,028"	0,157	191
9,53	0,89	7,75	3/8" x 0,035"	0,193	240
9,53	1,24	7,05	3/8" x 0,049"	0,257	334
9,53	1,65	6,23	3/8" x 0,065"	0,326	444
9,53	2,11	5,31	3/8" x 0,083"	0,392	568
9,53	2,64	4,23	3/8" x 0,104"	0,457	714
9,53	3,18	3,17	3/8" x 0,125"	0,506	856
10,00	0,50	9,00		0,119	128
10,00	1,00	8,00		0,225	257
10,00	1,50	7,00		0,319	385
10,00	2,00	6,00		0,401	513
11,00	0,50	10,00		0,131	117
11,00	1,00	9,00		0,250	233
11,00	1,50	8,00		0,357	350
11,00	2,00	7,00		0,451	467
11,11	0,71	9,69	7/16" x 0,028"	0,185	164
11,11	0,89	9,33	7/16" x 0,035"	0,228	206
11,11	1,24	8,63	7/16" x 0,049"	0,306	286
11,11	1,65	7,81	7/16" x 0,065"	0,391	381
11,11	2,11	6,89	7/16" x 0,083"	0,476	487
12,00	1,00	10,00		0,275	214
12,00	1,50	9,00		0,394	321

## seamless stainless steel tubes

O.D. mm	Wall mm	I.D. mm	Inch	+/- kg p/m	Work.pr. pres./in bar *
12,00	2,00	8,00		0,501	428
12,00	2,50	7,00		0,595	535
12,00	3,00	6,00		0,676	642
12,70	0,71	11,28	1/2" x 0,028"	0,213	143
12,70	0,89	10,92	1/2" x 0,035"	0,263	180
12,70	1,24	10,22	1/2" x 0,049"	0,356	251
12,70	1,65	9,40	1/2" X 0,065"	0,457	333
12,70	2,11	8,48	1/2" X 0,083"	0,560	426
12,70	2,64	7,42	1/2" x 0,104"	0,665	534
12,70	3,18	6,34	1/2" x 0,125"	0,758	643
13,00	1,00	11,00		0,300	197
13,00	1,50	10,00		0,432	296
13,00	2,00	9,00		0,551	395
14,00	1,00	12,00		0,326	183
14,00	1,50	11,00		0,470	275
14,00	2,00	10,00		0,601	367
14,00	2,50	9,00		0,720	458
14,00	3,00	8,00		0,826	550
14,28	0,89	12,50	9/16" x 0,035"	0,298	160
14,28	1,24	11,80	9/16" x 0,049"	0,405	223
14,28	1,65	10,98	9/16" x 0,065"	0,522	297
14,28	2,11	10,06	9/16" x 0,083"	0,643	379
15,00	1,00	13,00		0,351	171
15,00	1,50	12,00		0,507	257
15,00	2,00	11,00		0,651	342
15,88	0,89	14,10	5/8" x 0,035"	0,334	144
15,88	1,24	13,40	5/8" x 0,049"	0,455	200
15,88	1,65	12,58	5/8" x 0,065"	0,588	267
15,88	2,11	11,66	5/8" x 0,083"	0,728	341
15,88	2,64	10,60	5/8" x 0,104"	0,875	427
15,88	3,18	9,52	5/8" x 0,125"	1,011	514
16,00	1,00	14,00		0,376	160
16,00	1,50	13,00		0,545	241
16,00	2,00	12,00		0,701	321
16,00	2,50	11,00		0,845	401
16,00	3,00	10,00		0,977	481
18,00	1,00	16,00		0,426	143
18,00	1,50	15,00		0,620	214
18,00	2,00	14,00		0,801	285
19,05	0,51	18,03	3/4" x 0,020"	0,237	69
19,05	0,71	17,63	3/4" x 0,028"	0,326	96
19,05	0,89	17,27	3/4" x 0,035"	0,405	120
19,05	1,24	16,57	3/4" x 0,049"	0,553	167
19,05	1,65	15,75	3/4" x 0,065"	0,719	222
19,05	2,11	14,83	3/4" x 0,083"	0,895	284
19,05	2,64	13,77	3/4" x 0,104"	1,085	356
19,05	3,18	12,69	3/4" x 0,125"	1,264	428
20,00	0,50	19,00		0,244	64
20,00	1,00	18,00		0,476	128
20,00	1,50	17,00		0,695	193
20,00	2,00	16,00		0,901	257
20,00	2,50	15,00		1,096	321
20,00	3,00	14,00		1,277	385
22,00	1,50	19,00		0,770	175
22,00	2,00	18,00		1,002	233
22,00	2,50	17,00		1,221	292
22,23	0,89	20,45	7/8" x 0,035"	0,476	103
22,23	1,24	19,75	7/8" x 0,049"	0,652	143
22,23	1,65	18,93	7/8" x 0,065"	0,850	191
22,23	2,11	18,93	7/8" x 0,083"	1,063	238
24,00	1,00	22,00		0,576	107
25,00	1,50	22,00		0,883	154

O.D. mm	Wall mm	I.D. mm	Inch	+/- kg p/m	Work.pr. pres./ in bar *
25,00	2,00	21,00		1,15	205
25,00	2,50	20,00		1,41	257
25,00	3,00	19,00		1,65	308
25,00	4,00	17,00		2,10	411
25,40	0,71	23,98	1" x 0,028"	0,44	72
25,40	0,89	23,62	1" x 0,035"	0,55	90
25,40	1,24	22,92	1" x 0,049"	0,75	125
25,40	1,65	22,10	1" x 0,065"	0,98	167
25,40	2,11	21,18	1" x 0,083"	1,23	213
25,40	2,64	20,12	1" x 0,104"	1,51	267
25,40	3,18	19,04	1" x 0,125"	1,77	321
25,40	6,35	12,70	1" x 0,250"	3,03	642
28,00	1,50	25,00		1,00	138
28,00	2,00	24,00		1,30	183
28,00	2,50	23,00		1,60	229
28,00	3,00	22,00		1,88	275
28,58	1,65	25,28	1 1/8" x 0,065"	1,11	148
28,58	2,11	24,36	1 1/8" x 0,083"	1,40	189
30,00	2,00	26,00		1,40	171
30,00	2,50	25,00		1,72	214
30,00	3,00	24,00		2,03	257
30,00	4,00	22,00		2,60	342
31,75	1,24	29,27	1 1/4" x 0,049"	0,947	100
31,75	1,65	28,45	1 1/4" x 0,065"	1,24	133
31,75	2,11	27,53	1 1/4" x 0,083"	1,57	171
31,75	2,64	26,47	1 1/4" x 0,104"	1,92	213
31,75	3,18	25,39	1 1/4" x 0,125"	2,28	257
32,00	3,00	26,00		2,18	241
34,93	1,65	31,63	1 3/8" x 0,065"	1,38	121
34,93	2,11	30,71	1 3/8" x 0,083"	1,73	155
35,00	2,00	31,00		1,65	147
35,00	3,00	29,00		2,40	220
38,00	3,00	32,00		2,63	203
38,00	4,00	30,00		3,41	270
38,00	5,00	28,00		4,13	338
38,10	1,24	35,62	1 1/2" x 0,049"	1,14	84
38,10	1,65	34,80	1 1/2" x 0,065"	1,51	111
38,10	2,11	33,88	1 1/2" x 0,083"	1,90	142
38,10	2,64	32,82	1 1/2" x 0,104"	2,34	178
38,10	3,18	31,74	1 1/2" x 0,125"	2,78	214
38,10	6,35	25,40	1 1/2" x 0,250"	5,05	428
41,28	1,65	37,98	1 5/8" x 0,065"	1,64	103
41,28	2,11	37,06	1 5/8" x 0,083"	2,07	131
42,00	3,00	36,00		2,93	183
44,45	1,65	41,15	1 3/4" x 0,065"	1,77	95
44,45	2,11	40,23	1 3/4" x 0,083"	2,24	122
44,45	3,18	38,09	1 3/4" x 0,125"	3,28	184
50,00	3,00	44,00		3,53	154
50,00	5,00	40,00		5,63	257
50,80	1,65	47,50	2" x 0,065"	2,03	83
50,80	2,11	46,58	2" x 0,083"	2,57	107
50,80	2,64	45,52	2" x 0,104"	3,18	133
50,80	3,18	44,44	2" x 0,125"	3,79	161
50,80	6,35	38,10	2" x 0,250"	7,07	321
57,15	2,11	52,93	2 1/4" x 0,083"	2,91	95
57,15	3,18	50,79	2 1/4" x 0,125"	4,30	143
63,50	2,11	59,28	2 1/2" x 0,083"	3,24	85
63,50	3,18	57,14	2 1/2" x 0,125"	4,80	129
76,20	1,63	72,94	3" x 0,064"	3,03	57
76,20	3,25	69,70	3" x 0,128"	5,94	107
76,20	6,35	63,50	3" x 0,250"	11,10	214

\*Working pressure based on alloy 316L at a temperature of 20° C

## ◆○ Seamless instrumentation tube on coil

### Advantages of tube on coil

- ◆ By delivering the pipe to exact dimensions, less waste
- ◆ Reduction of the risk of leakage because fewer couplings are used
- ◆ Less space required for storage compared to pipe in 6 meter lengths
- ◆ Easy to transport
- ◆ Lower Total Cost of Ownership due to lower maintenance and inspection costs

### Specifications

- ◆ Cold drawn, bright annealed
- ◆ Hardness max. 90 HRB
- ◆ Packaged on wooden reels or loose on rolls
- ◆ Roll lengths from 25 to 700 meters
- ◆ According to ASTM-A213 Average Wall, A632 or EN10216-5, NACE MR0175
- ◆ From stock: 316L
- ◆ Out of production with minimum order quantity: 304L, Alloy 400, 600, 625, 825 and 904L
- ◆ If desired with PVC covering



#### Inch dimensions

Ø 1/16" (1.59 mm) x 0.012" (0.30 mm)  
Ø 1/16" (1.59 mm) x 0.014" (0.36 mm)  
Ø 1/8" (3.17 mm) x 0.020" (0.51 mm)  
Ø 1/8" (3.17 mm) x 0.028" (0.71 mm)  
Ø 1/8" (3.17 mm) x 0.035" (0.89 mm)  
Ø 1/4" (6.35 mm) x 0.035" (0.89 mm)  
Ø 3/8" (9.52 mm) x 0.035" (0.89 mm)  
Ø 3/8" (9.52 mm) x 0.049" (1.24 mm)  
Ø 3/8" (9.52 mm) x 0.065" (1.65 mm)  
Ø 1/2" (12.7 mm) x 0.035" (0.89 mm)  
Ø 1/2" (12.7 mm) x 0.049" (1.24 mm)  
Ø 1/2" (12.7 mm) x 0.065" (1.65 mm)

#### Metric dimensions

Ø 3 mm x 0.5 mm  
Ø 3 mm x 1.0 mm  
Ø 4 mm x 0.5 mm  
Ø 4 mm x 1.0 mm  
Ø 5 mm x 0.5 mm  
Ø 6 mm x 0.5 mm  
Ø 6 mm x 1.0 mm  
Ø 8 mm x 1.0 mm  
Ø 10 mm x 1.0 mm  
Ø 12 mm x 1.0 mm

Steel E235+N/37.4 Cr.VI-free galvanised  
 Seamless cold drawn high pressure tubes according to  
 EN 10305-4 external surface electrolytic galvanised  
 W.Nr. 1.0255. Annealed, Eddy Current tested, inside  
 oiled, plugged, 6000 mm lengths.

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
4,00	0,50	3,00	0,043	235
4,00	0,75	2,50	0,060	382
4,00	1,00	2,00	0,074	529
5,00	0,75	3,50	0,079	306
5,00	1,00	3,00	0,099	423
6,00	0,75	4,50	0,097	255
6,00	1,00	4,00	0,123	353
6,00	1,50	3,00	0,166	548
6,00	2,00	2,00	0,197	744
6,00	2,25	1,50	0,208	842
8,00	1,00	6,00	0,173	264
8,00	1,50	5,00	0,240	411
8,00	2,00	4,00	0,296	558
8,00	2,50	3,00	0,339	705
10,00	1,00	8,00	0,222	212
10,00	1,50	7,00	0,314	329
10,00	2,00	6,00	0,395	447
10,00	2,50	5,00	0,462	564
12,00	1,00	10,00	0,271	176
12,00	1,50	9,00	0,388	274
12,00	2,00	8,00	0,493	372
12,00	2,50	7,00	0,586	470
12,00	3,00	6,00	0,666	568
14,00	1,00	12,00	0,321	151
14,00	1,50	11,00	0,462	235
14,00	2,00	10,00	0,592	319
14,00	2,50	9,00	0,709	403
14,00	3,00	8,00	0,814	487
14,00	3,50	7,00	0,906	571
15,00	1,00	13,00	0,345	141
15,00	1,50	12,00	0,499	219
15,00	2,00	11,00	0,641	298
15,00	2,50	10,00	0,771	376
15,00	3,00	9,00	0,888	454
16,00	1,00	14,00	0,370	127
16,00	1,50	13,00	0,536	197
16,00	2,00	12,00	0,690	267
16,00	2,50	11,00	0,832	338
16,00	3,00	10,00	0,962	408
18,00	1,00	16,00	0,419	113
18,00	1,50	15,00	0,610	175
18,00	2,00	14,00	0,789	238
18,00	2,50	13,00	0,956	300
18,00	3,00	12,00	1,11	363
20,00	1,00	18,00	0,469	101
20,00	1,50	17,00	0,684	158
20,00	2,00	16,00	0,888	214
20,00	2,50	15,00	1,08	270

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
20,00	3,00	14,00	1,26	326
20,00	3,50	13,00	1,42	383
20,00	4,00	12,00	1,58	439
22,00	1,00	20,00	0,518	92
22,00	1,50	19,00	0,758	143
22,00	2,00	18,00	0,986	194
22,00	2,50	17,00	1,202	245
22,00	3,00	16,00	1,406	297
22,00	3,50	15,00	1,597	348
22,00	4,00	14,00	1,776	399
25,00	1,00	23,00	0,592	81
25,00	1,50	22,00	0,869	126
25,00	2,00	21,00	1,134	171
25,00	2,50	20,00	1,387	216
25,00	3,00	19,00	1,628	261
25,00	3,50	18,00	1,856	306
25,00	4,00	17,00	2,071	351
25,00	4,50	16,00	2,275	396
25,00	5,00	15,00	2,466	441
28,00	1,50	25,00	0,980	113
28,00	2,00	24,00	1,282	153
28,00	2,50	23,00	1,572	193
28,00	3,00	22,00	1,850	233
28,00	3,50	21,00	2,115	273
28,00	4,00	20,00	2,367	313
28,00	4,50	19,00	2,608	354
28,00	5,00	18,00	2,836	394
30,00	2,00	26,00	1,381	143
30,00	2,50	25,00	1,695	180
30,00	3,00	24,00	1,997	218
30,00	3,50	23,00	2,287	255
30,00	4,00	22,00	2,565	293
30,00	4,50	21,00	2,830	330
30,00	5,00	20,00	3,083	368
30,00	6,00	18,00	3,551	443
35,00	2,00	31,00	1,628	122
35,00	2,50	30,00	2,004	154
35,00	3,00	29,00	2,367	186
35,00	3,50	28,00	2,719	219
35,00	4,00	27,00	3,058	251
35,00	4,50	26,00	3,385	283
35,00	5,00	25,00	3,699	315
35,00	6,00	23,00	4,291	379
38,00	2,00	34,00	1,776	113
38,00	2,50	33,00	2,189	142
38,00	3,00	32,00	2,589	172
38,00	3,50	31,00	2,978	201
38,00	4,00	30,00	3,354	231
38,00	4,50	29,00	3,717	261
38,00	5,00	28,00	4,069	290
38,00	6,00	26,00	4,735	349
38,00	7,00	24,00	5,351	409
42,00	2,00	38,00	1,973	97
42,00	3,00	36,00	2,885	148
42,00	4,00	34,00	3,748	200
50,00	6,00	38,00	6,510	254
50,00	9,00	32,00	9,100	383
65,00	8,00	49,00	11,245	261
80,00	10,00	60,00	17,262	266

\*Working pressure based at a temperature of 20° C

## steel E235+N/37.4 phosphated

### Steel E235+N/37.4 phosphated

Seamless cold drawn high pressure tubes according to EN 10305-4 external surface electrolytic phosphated W.Nr. 1.0255. Annealed, Eddy Current tested, inside oiled, plugged, 6000 mm lengths.

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
4,00	0,50	3,00	0,043	235
4,00	0,75	2,50	0,060	382
4,00	1,00	2,00	0,074	529
5,00	0,75	3,50	0,079	306
5,00	1,00	3,00	0,099	423
6,00	0,75	4,50	0,097	255
6,00	1,00	4,00	0,123	353
6,00	1,50	3,00	0,166	548
6,00	2,00	2,00	0,197	744
6,00	2,25	1,50	0,208	842
8,00	1,00	6,00	0,173	264
8,00	1,50	5,00	0,240	411
8,00	2,00	4,00	0,296	558
8,00	2,50	3,00	0,339	705
10,00	1,00	8,00	0,222	212
10,00	1,50	7,00	0,314	329
10,00	2,00	6,00	0,395	447
10,00	2,50	5,00	0,462	564
12,00	1,00	10,00	0,271	176
12,00	1,50	9,00	0,388	274
12,00	2,00	8,00	0,493	372
12,00	2,50	7,00	0,586	470
12,00	3,00	6,00	0,666	568
14,00	1,00	12,00	0,321	151
14,00	1,50	11,00	0,462	235
14,00	2,00	10,00	0,592	319
14,00	2,50	9,00	0,709	403
14,00	3,00	8,00	0,814	487
14,00	3,50	7,00	0,906	571
15,00	1,00	13,00	0,345	141
15,00	1,50	12,00	0,499	219
15,00	2,00	11,00	0,641	298
15,00	2,50	10,00	0,771	376
15,00	3,00	9,00	0,888	454
16,00	1,00	14,00	0,370	127
16,00	1,50	13,00	0,536	197
16,00	2,00	12,00	0,690	267
16,00	2,50	11,00	0,832	338
16,00	3,00	10,00	0,962	408
18,00	1,00	16,00	0,419	113
18,00	1,50	15,00	0,610	175
18,00	2,00	14,00	0,789	238
18,00	2,50	13,00	0,956	300
18,00	3,00	12,00	1,11	363
20,00	1,00	18,00	0,469	101
20,00	1,50	17,00	0,684	158
20,00	2,00	16,00	0,888	214
20,00	2,50	15,00	1,08	270

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
20,00	3,00	14,00	1,26	326
20,00	3,50	13,00	1,42	383
20,00	4,00	12,00	1,58	439
22,00	1,00	20,00	0,518	92
22,00	1,50	19,00	0,758	143
22,00	2,00	18,00	0,986	194
22,00	2,50	17,00	1,202	245
22,00	3,00	16,00	1,406	297
22,00	3,50	15,00	1,597	348
22,00	4,00	14,00	1,776	399
25,00	1,00	23,00	0,592	81
25,00	1,50	22,00	0,869	126
25,00	2,00	21,00	1,134	171
25,00	2,50	20,00	1,387	216
25,00	3,00	19,00	1,628	261
25,00	3,50	18,00	1,856	306
25,00	4,00	17,00	2,071	351
25,00	4,50	16,00	2,275	396
25,00	5,00	15,00	2,466	441
28,00	1,50	25,00	0,980	113
28,00	2,00	24,00	1,282	153
28,00	2,50	23,00	1,572	193
28,00	3,00	22,00	1,850	233
28,00	3,50	21,00	2,115	273
28,00	4,00	20,00	2,367	313
28,00	4,50	19,00	2,608	354
28,00	5,00	18,00	2,836	394
30,00	2,00	26,00	1,381	143
30,00	2,50	25,00	1,695	180
30,00	3,00	24,00	1,997	218
30,00	3,50	23,00	2,287	255
30,00	4,00	22,00	2,565	293
30,00	4,50	21,00	2,830	330
30,00	5,00	20,00	3,083	368
30,00	6,00	18,00	3,551	443
35,00	2,00	31,00	1,628	122
35,00	2,50	30,00	2,004	154
35,00	3,00	29,00	2,367	186
35,00	3,50	28,00	2,719	219
35,00	4,00	27,00	3,058	251
35,00	4,50	26,00	3,385	283
35,00	5,00	25,00	3,699	315
35,00	6,00	23,00	4,291	379
38,00	2,00	34,00	1,776	113
38,00	2,50	33,00	2,189	142
38,00	3,00	32,00	2,589	172
38,00	3,50	31,00	2,978	201
38,00	4,00	30,00	3,354	231
38,00	4,50	29,00	3,717	261
38,00	5,00	28,00	4,069	290
38,00	6,00	26,00	4,735	349
38,00	7,00	24,00	5,351	409
42,00	2,00	38,00	1,973	97
42,00	3,00	36,00	2,885	148
42,00	4,00	34,00	3,748	200
50,00	6,00	38,00	6,510	254
50,00	9,00	32,00	9,100	383
65,00	8,00	49,00	11,245	261
80,00	10,00	60,00	17,262	266

\*Working pressure based at a temperature of 20° C



Steel E355+N/52.4 Cr.VI-free galvanised  
 Seamless cold drawn high pressure tubes according to  
 EN 10305-4 external surface electrolytic galvanised  
 W.Nr. 1.0255. Annealed, Eddy Current tested, inside  
 oiled, plugged, 6000 mm lengths.

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
4,00	0,50	3,00	0,043	355
4,00	0,75	2,50	0,060	577
4,00	1,00	2,00	0,074	799
5,00	0,75	3,50	0,079	462
5,00	1,00	3,00	0,099	639
6,00	0,75	4,50	0,097	385
6,00	1,00	4,00	0,123	533
6,00	1,50	3,00	0,166	828
6,00	2,00	2,00	0,197	1124
6,00	2,25	1,50	0,208	1272
8,00	1,00	6,00	0,173	399
8,00	1,50	5,00	0,240	621
8,00	2,00	4,00	0,296	843
8,00	2,50	3,00	0,339	1065
10,00	1,00	8,00	0,222	320
10,00	1,50	7,00	0,314	497
10,00	2,00	6,00	0,395	675
10,00	2,50	5,00	0,462	852
12,00	1,00	10,00	0,271	266
12,00	1,50	9,00	0,388	414
12,00	2,00	8,00	0,493	562
12,00	2,50	7,00	0,586	710
12,00	3,00	6,00	0,666	858
14,00	1,00	12,00	0,321	228
14,00	1,50	11,00	0,462	355
14,00	2,00	10,00	0,592	482
14,00	2,50	9,00	0,709	609
14,00	3,00	8,00	0,814	735
14,00	3,50	7,00	0,906	862
15,00	1,00	13,00	0,345	213
15,00	1,50	12,00	0,499	331
15,00	2,00	11,00	0,641	450
15,00	2,50	10,00	0,771	568
15,00	3,00	9,00	0,888	686
16,00	1,00	14,00	0,370	194
16,00	1,50	13,00	0,536	302
16,00	2,00	12,00	0,690	410
16,00	2,50	11,00	0,832	518
16,00	3,00	10,00	0,962	625
18,00	1,00	16,00	0,419	173
18,00	1,50	15,00	0,610	268
18,00	2,00	14,00	0,789	364
18,00	2,50	13,00	0,956	460
18,00	3,00	12,00	1,11	556
20,00	1,00	18,00	0,469	155
20,00	1,50	17,00	0,684	242
20,00	2,00	16,00	0,888	328
20,00	2,50	15,00	1,08	414

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
20,00	3,00	14,00	1,26	500
20,00	3,50	13,00	1,42	587
20,00	4,00	12,00	1,58	673
22,00	1,00	20,00	0,518	141
22,00	1,50	19,00	0,76	220
22,00	2,00	18,00	0,99	298
22,00	2,50	17,00	1,20	376
22,00	3,00	16,00	1,41	455
22,00	3,50	15,00	1,60	533
22,00	4,00	14,00	1,78	612
25,00	1,00	23,00	0,59	124
25,00	1,50	22,00	0,87	193
25,00	2,00	21,00	1,13	262
25,00	2,50	20,00	1,39	331
25,00	3,00	19,00	1,63	400
25,00	3,50	18,00	1,86	469
25,00	4,00	17,00	2,07	538
25,00	4,50	16,00	2,28	607
25,00	5,00	15,00	2,47	676
28,00	1,50	25,00	0,98	173
28,00	2,00	24,00	1,28	234
28,00	2,50	23,00	1,57	269
28,00	3,00	22,00	1,85	357
28,00	3,50	21,00	2,12	419
28,00	4,00	20,00	2,37	481
28,00	4,50	19,00	2,61	542
28,00	5,00	18,00	2,84	604
30,00	2,00	26,00	1,38	219
30,00	2,50	25,00	1,70	276
30,00	3,00	24,00	2,00	334
30,00	3,50	23,00	2,29	391
30,00	4,00	22,00	2,57	449
30,00	4,50	21,00	2,83	506
30,00	5,00	20,00	3,08	564
30,00	6,00	18,00	3,55	679
35,00	2,00	31,00	1,63	187
35,00	2,50	30,00	2,00	237
35,00	3,00	29,00	2,37	286
35,00	3,50	28,00	2,72	335
35,00	4,00	27,00	3,06	384
35,00	4,50	26,00	3,39	434
35,00	5,00	25,00	3,70	483
35,00	6,00	23,00	4,29	582
38,00	2,00	34,00	1,78	173
38,00	2,50	33,00	2,19	218
38,00	3,00	32,00	2,59	263
38,00	3,50	31,00	2,98	309
38,00	4,00	30,00	3,35	354
38,00	4,50	29,00	3,72	399
38,00	5,00	28,00	4,07	445
38,00	6,00	26,00	4,74	536
38,00	7,00	24,00	5,35	626
42,00	2,00	38,00	1,97	161
42,00	3,00	36,00	2,89	245
42,00	4,00	34,00	3,75	330
50,00	6,00	38,00	6,51	419
50,00	9,00	32,00	9,10	632
65,00	8,00	49,00	11,25	431
80,00	10,00	60,00	17,26	439

\*Working pressure based at a temperature of 20° C

## steel E355+N/52.4 phosphated

### Steel E355+N/52.4 phosphated

Seamless cold drawn high pressure tubes according to EN 10305-4 external surface electrolytic phosphated W.Nr. 1.0255. Annealed, Eddy Current tested, inside oiled, plugged, 6000 mm lengths

O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
4,00	0,50	3,00	0,043	355
4,00	0,75	2,50	0,060	577
4,00	1,00	2,00	0,074	799
5,00	0,75	3,50	0,079	462
5,00	1,00	3,00	0,099	639
6,00	0,75	4,50	0,097	385
6,00	1,00	4,00	0,123	533
6,00	1,50	3,00	0,166	828
6,00	2,00	2,00	0,197	1124
6,00	2,25	1,50	0,208	1272
8,00	1,00	6,00	0,173	399
8,00	1,50	5,00	0,240	621
8,00	2,00	4,00	0,296	843
8,00	2,50	3,00	0,339	1065
10,00	1,00	8,00	0,222	320
10,00	1,50	7,00	0,314	497
10,00	2,00	6,00	0,395	675
10,00	2,50	5,00	0,462	852
12,00	1,00	10,00	0,271	266
12,00	1,50	9,00	0,388	414
12,00	2,00	8,00	0,493	562
12,00	2,50	7,00	0,586	710
12,00	3,00	6,00	0,666	858
14,00	1,00	12,00	0,321	228
14,00	1,50	11,00	0,462	355
14,00	2,00	10,00	0,592	482
14,00	2,50	9,00	0,709	609
14,00	3,00	8,00	0,814	735
14,00	3,50	7,00	0,906	862
15,00	1,00	13,00	0,345	213
15,00	1,50	12,00	0,499	331
15,00	2,00	11,00	0,641	450
15,00	2,50	10,00	0,771	568
15,00	3,00	9,00	0,888	686
16,00	1,00	14,00	0,370	194
16,00	1,50	13,00	0,536	302
16,00	2,00	12,00	0,690	410
16,00	2,50	11,00	0,832	518
16,00	3,00	10,00	0,962	625
18,00	1,00	16,00	0,419	173
18,00	1,50	15,00	0,610	268
18,00	2,00	14,00	0,789	364
18,00	2,50	13,00	0,956	460
18,00	3,00	12,00	1,110	556
20,00	1,00	18,00	0,469	155
20,00	1,50	17,00	0,684	242
20,00	2,00	16,00	0,888	328
20,00	2,50	15,00	1,079	414

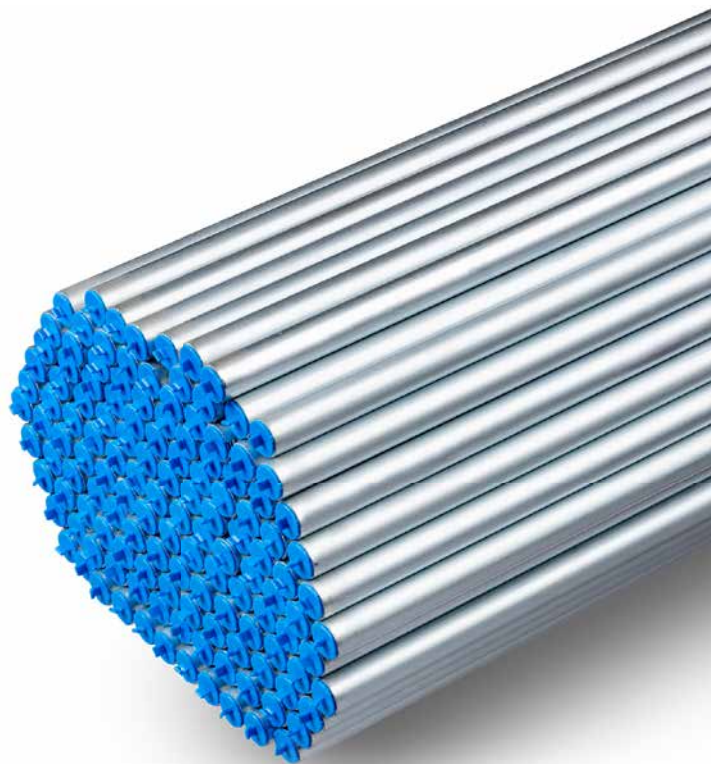
O.D. mm	Wall mm	I.D. mm	KG/M	Max. working press. in bar incl. 3.1 certificate
20,00	3,00	14,00	1,258	500
20,00	3,50	13,00	1,424	587
20,00	4,00	12,00	1,578	673
22,00	1,00	20,00	0,518	141
22,00	1,50	19,00	0,758	220
22,00	2,00	18,00	0,986	298
22,00	2,50	17,00	1,202	376
22,00	3,00	16,00	1,406	455
22,00	3,50	15,00	1,597	533
22,00	4,00	14,00	1,776	612
25,00	1,00	23,00	0,592	124
25,00	1,50	22,00	0,869	193
25,00	2,00	21,00	1,134	262
25,00	2,50	20,00	1,387	331
25,00	3,00	19,00	1,628	400
25,00	3,50	18,00	1,856	469
25,00	4,00	17,00	2,071	538
25,00	4,50	16,00	2,275	607
25,00	5,00	15,00	2,466	676
28,00	1,50	25,00	0,980	173
28,00	2,00	24,00	1,282	234
28,00	2,50	23,00	1,572	269
28,00	3,00	22,00	1,850	357
28,00	3,50	21,00	2,115	419
28,00	4,00	20,00	2,367	481
28,00	4,50	19,00	2,608	542
28,00	5,00	18,00	2,836	604
30,00	2,00	26,00	1,381	219
30,00	2,50	25,00	1,695	276
30,00	3,00	24,00	1,997	334
30,00	3,50	23,00	2,287	391
30,00	4,00	22,00	2,565	449
30,00	4,50	21,00	2,830	506
30,00	5,00	20,00	3,083	564
30,00	6,00	18,00	3,551	679
35,00	2,00	31,00	1,628	187
35,00	2,50	30,00	2,004	237
35,00	3,00	29,00	2,367	286
35,00	3,50	28,00	2,719	335
35,00	4,00	27,00	3,058	384
35,00	4,50	26,00	3,385	434
35,00	5,00	25,00	3,699	483
35,00	6,00	23,00	4,291	582
38,00	2,00	34,00	1,776	173
38,00	2,50	33,00	2,189	218
38,00	3,00	32,00	2,589	263
38,00	3,50	31,00	2,978	309
38,00	4,00	30,00	3,354	354
38,00	4,50	29,00	3,717	399
38,00	5,00	28,00	4,069	445
38,00	6,00	26,00	4,735	536
38,00	7,00	24,00	5,351	626
42,00	2,00	38,00	1,973	161
42,00	3,00	36,00	2,885	245
42,00	4,00	34,00	3,748	330
50,00	6,00	38,00	6,510	419
50,00	9,00	32,00	9,100	632
65,00	8,00	49,00	11,245	431
80,00	10,00	60,00	17,262	439

\*Working pressure based at a temperature of 20° C



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Tuinschouw 6, 4131 MD Vianen  
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**Tel.** +31 (0)88 - 1189 440

**E-mail.** [info@amarimetals.nl](mailto:info@amarimetals.nl)